



NETGEAR AV M4250 Configuring Audio and Video Over IP Switch User Guide

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NETGEAR AV M4250 Configuring Audio and Video Over IP Switch



Product Information

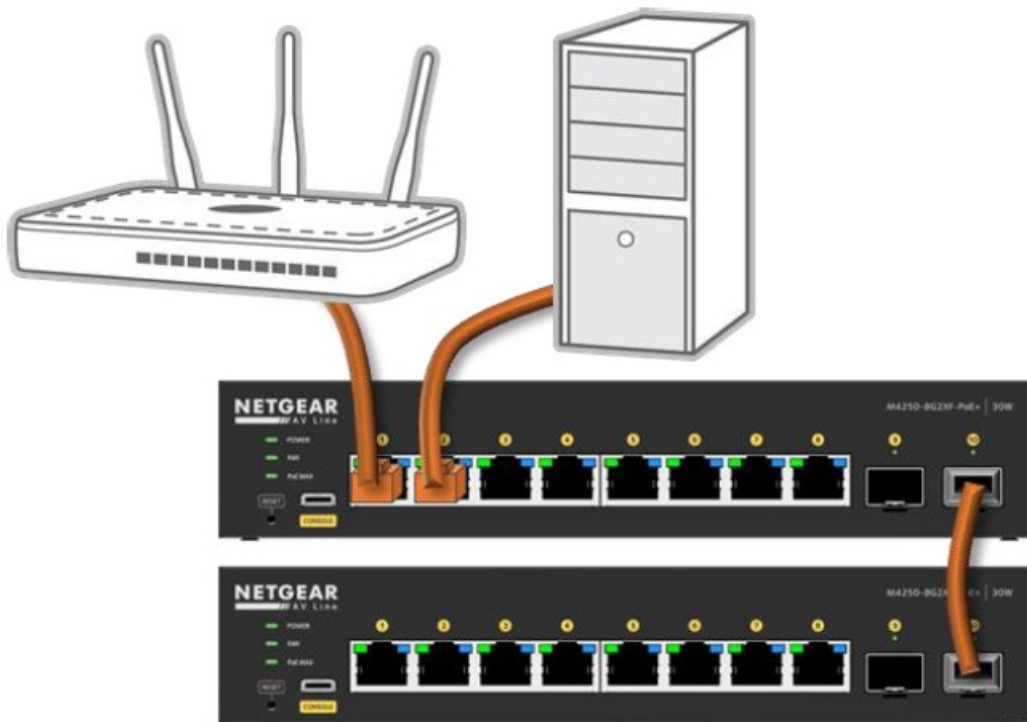
The product allows users to configure audio and video on separate VLANs using the Engage controller. It provides the ability to create VLANs with specific profiles for video and audio. The user can select ports on switches to assign to each VLAN, and additional switches can be added to expand the configuration. The product also allows for the customization of port configurations within each profile.

Product Usage Instructions

1. Open the Engage controller and navigate to Site Settings.
2. Click on "Create New Profile".
3. Select the desired profile from the drop-down menu (Video or Audio Dante).
4. Click "Next".
5. Name the VLAN (e.g., Video or Audio) and assign it an ID (10 for Video, 20 for Audio).
6. Select the color for the profile.
7. Click "Next".
8. On the first switch, select the ports to assign to the VLAN (e.g., ports 4 and 5).
9. If there are additional switches, repeat step 8 for each switch.
10. Click "Apply".
11. Click "Confirm".
12. Repeat steps 2-11 to create a separate VLAN for the other profile (Audio).
13. Once the configuration is complete, the video will be on VLAN 10 and the audio on VLAN 20.
14. To modify port configurations, edit the respective profile.

Note: The above instructions are a summary of the user manual. Please refer to the official user manual for detailed instructions and troubleshooting information.

Audio and Video Over IP Configuration



- In this guide we will be going over how to configure a switch with audio and video on separate VLANs using Engage.
- We will create two VLANs, one with a profile for video and another one with a profile for audio

INSTALLATION INSTRUCTION

Open the Engage controller and go to "Site Settings."

Site Settings

Network Profiles

Export Worksheet Create New Profile

Profile Name	Profile Template	VLAN ID
Default	Data	1

Total 1 10/page < 1 > Go to 1

Global Settings

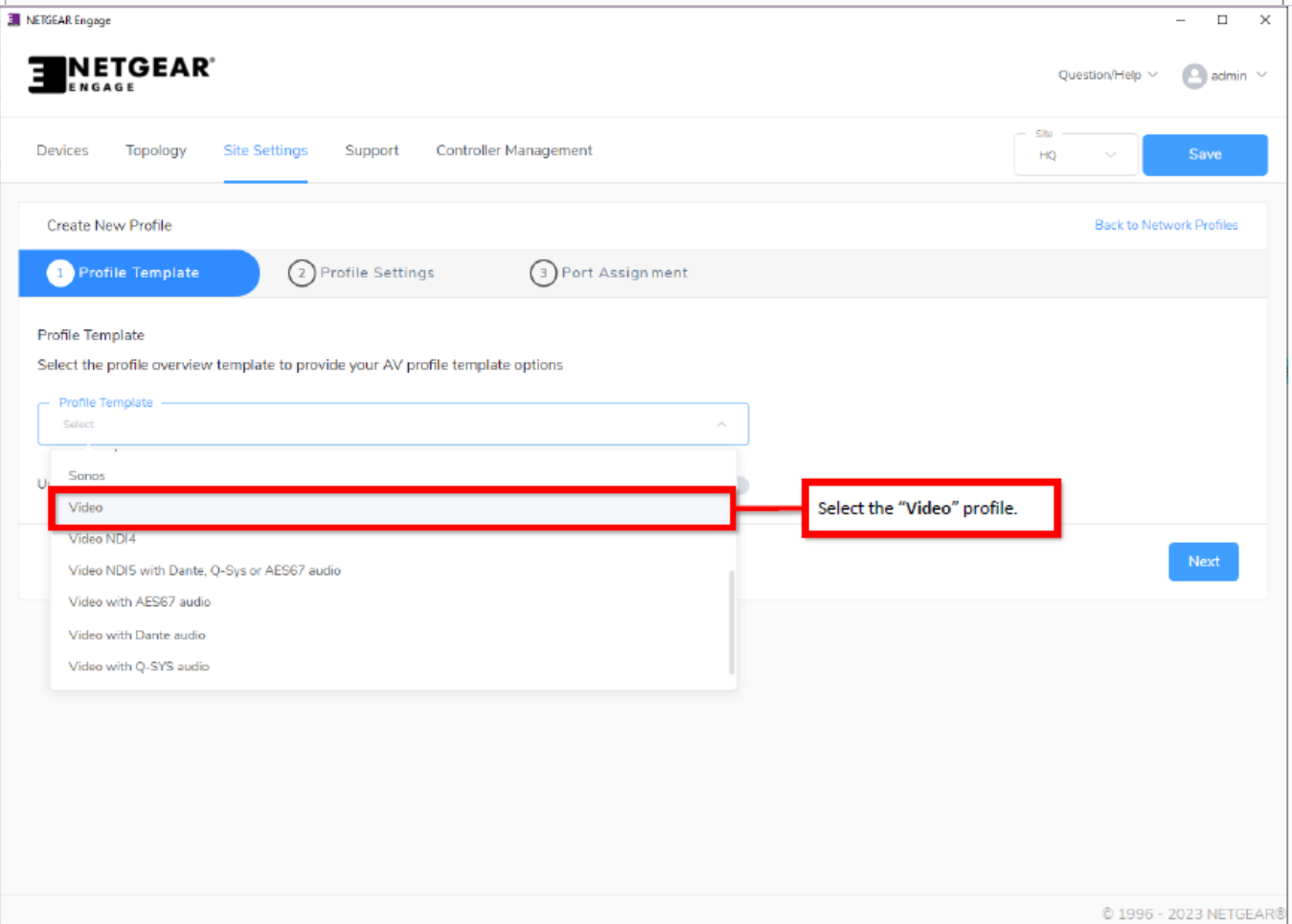
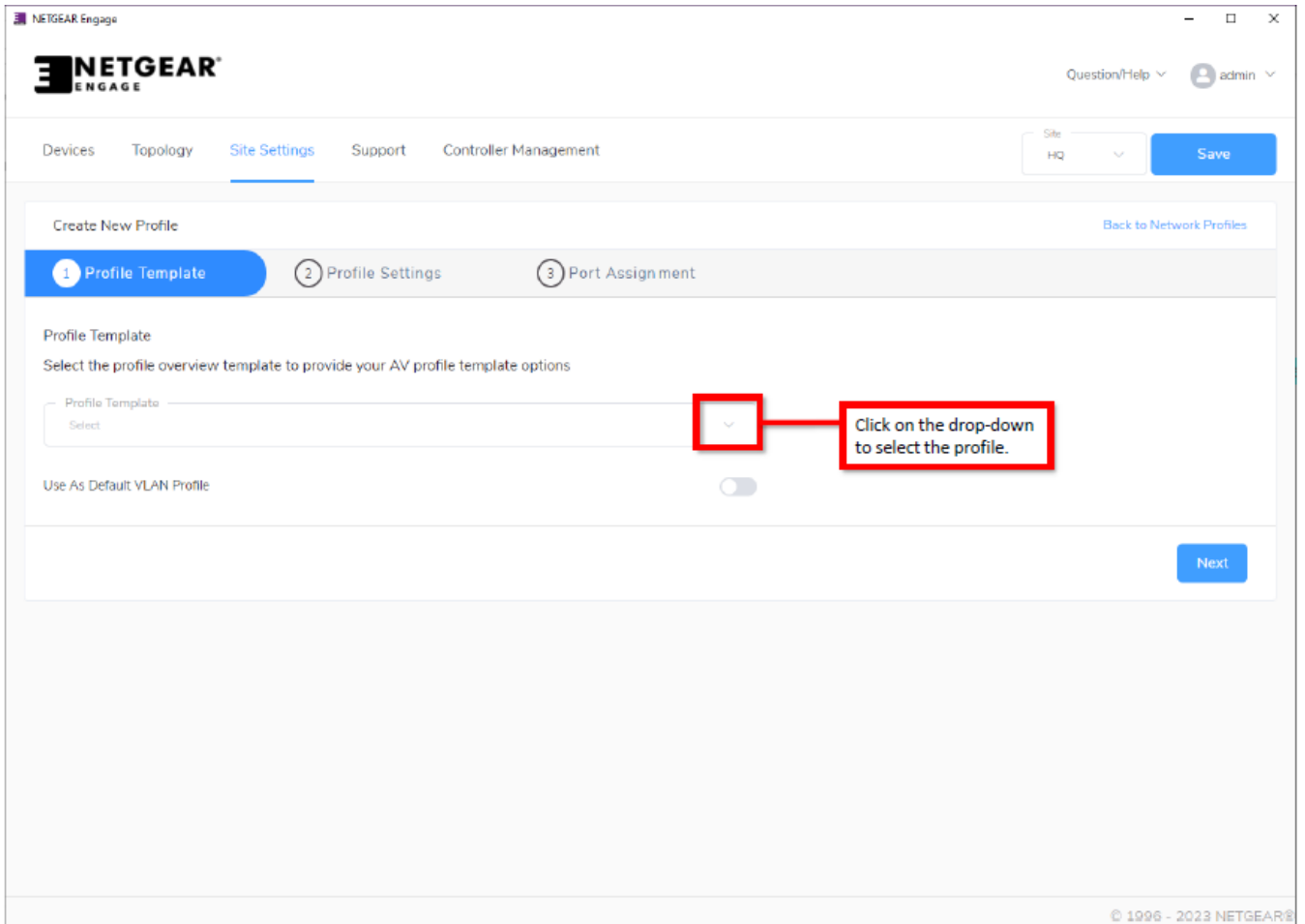
These setting will be applied to all switches on this site.

Auto-Trunk ☐

Auto-LAG ☐

Click on "Create New Profile."

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NETGEAR Engage

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Question/Help admin

DevicesTopologySite SettingsSupportController Management

SiteHQSave

Create New ProfileBack to Network Profiles

1 Profile Template

2 Profile Settings

3 Port Assignment

Profile Template

Select the profile overview template to provide your AV profile template options

Profile Template

Video

Profile Description

To connect IP Video devices and their controller. Audio can be sent and received using another VLAN tag in another profile simultaneously. Supported devices include NVX, AMX, ZeeVee, Aurora, Kramer, Atona, ATEN, LibAV, Visionary, Wyrestorm, Extron NAV, Dante AV, SDVoE & etc.

Use As Default VLAN Profile

Next

Click on "Next."

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Create New ProfileBack to Network Profiles

1 Profile Template

2 Profile Settings

3 Port Assignment

Profile Settings

Configure your profile settings and and preferences

Profile Name

Video

Profile Template

Video

VLAN ID

10

Color

#269CE6

Previous

CancelNext

We are going to name this VLAN "Video" and give it an ID of "10," then select the color for the profile.

Click on "Next."

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Devices Topology Site Settings Support Controller Management

Create New Profile Back to Network Profiles

1 Profile Template 2 Profile Settings 3 Port Assignment

Profile Name: Video | VLAN ID: 10 | Profile Template: Video Show Legends Refresh

Click on the first switch to select the ports.

6YX32A5FA00F... 6YX32A5NA010...

Total Number of Configured Switches: 0 Search for Switch

Switch Name ↓	Model ↓	Configured Number of Ports ↓	Configured Ports
You have no configured switches for this network profile. Please assign ports for this network profile by clicking on the Switch from the above section.			

Previous Cancel Apply

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Devices Topology Site Settings Support Controller Management

Create New Profile Back to Network Profiles

1 Profile Template 2 Profile Settings 3 Port Assignment

Profile Name: Video | VLAN ID: 10 | Profile Template: Video Show Legends Refresh

6YX32A5FA00F... 6YX32A5NA010...

Total Number of Configured Switches: 1 Search for Switch

6YX32A5FA00F7 M4250-BG2XF-PoE+ 2 M4250-BG2XF-PoE+ 4 5

After selecting the ports on the first switch click on the next switch.

We are going to select ports 4 and 5.

1 2 3 4 5 6 7 8 9 10

Untag all

Previous Cancel Apply

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Devices Topology **Site Settings** Support Controller Management

Site: HQ Save

Create New Profile [Back to Network Profiles](#)

1 Profile Template 2 Profile Settings 3 Port Assignment

Profile Name: Video | VLAN ID: 10 | Profile Template: Video [Show Legends](#) [Refresh](#)

6YX32A5NA0109

6YX32A5FA00F7 6YX32A5NA010...

1 2 3 4 5 6 7 8 9 10

Untag all

Total Number of Configured Switches: 2 [Search for Switch](#)

Switch Name ↓	Model ↓	Configured Number of Ports ↓	Configured Ports	
6YX32A5NA0109	M4250-8G2XF-PoE+	2	M4250-8G2XF-PoE+ 4 5	i trash
6YX32A5FA00F7	M4250-8G2XF-PoE+	2	M4250-8G2XF-PoE+ 4 5	i trash

Previous Cancel **Apply**

If you have any more switches, you can add the ports you want by following these steps.

We are going to select ports 4 and 5.

Click on "Apply."

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Devices Topology **Site Settings** Support Controller Management

Site: HQ Save

Create New Profile [Back to Network Profiles](#)

1 Profile Template 2 Profile Settings 3 Port Assignment

Profile Name: Video | VLAN ID: 10 | Profile Template: Video [Show Legends](#) [Refresh](#)

6YX32A5NA0109

6YX32A5FA00F7 6YX32A5NA010...

1 2 3 4 5 6 7 8 9 10

Untag all

Total Number of Configured Switches: 2 [Search for Switch](#)

Switch Name ↓	Model ↓	Configured Number of Ports ↓	Configured Ports	
6YX32A5NA0109	M4250-8G2XF-PoE+	2	M4250-8G2XF-PoE+ 4 5	i trash
6YX32A5FA00F7	M4250-8G2XF-PoE+	2	M4250-8G2XF-PoE+ 4 5	i trash

Previous Cancel **Apply**

Are you sure you want to apply network port assignments to all the switches on the site?

Cancel **Confirm**

Click on "Confirm."

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Devices Topology **Site Settings** Support Controller Management

Site HQ Save

Network Profiles [Export Worksheet](#) [Create New Profile](#)

Profile Name	Profile Template	VLAN ID	
Default	Data	1	
Video	Video	10	

Total 2 10/page < 1 > Go to 1

Global Settings

These setting will be applied to all switches on this site.

Auto-Trunk ☐

Auto-LAG ☐

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We can now see that the "Video" VLAN has been created. Next, we are going to create a VLAN for audio.

Click on "Create New Profile."

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Devices Topology **Site Settings** Support Controller Management

Site HQ Save

Create New Profile [Back to Network Profiles](#)

1 Profile Template 2 Profile Settings 3 Port Assignment

Profile Template

Select the profile overview template to provide your AV profile template options

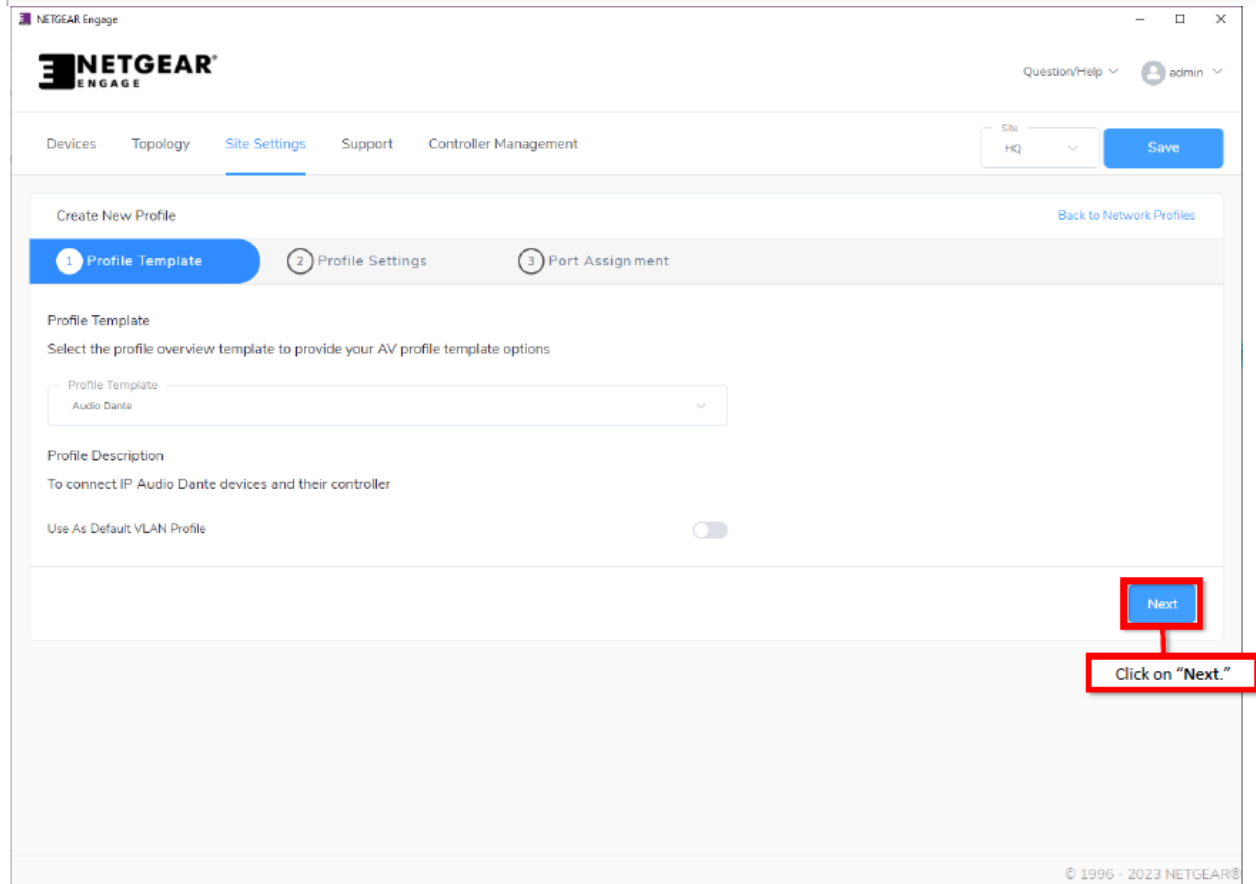
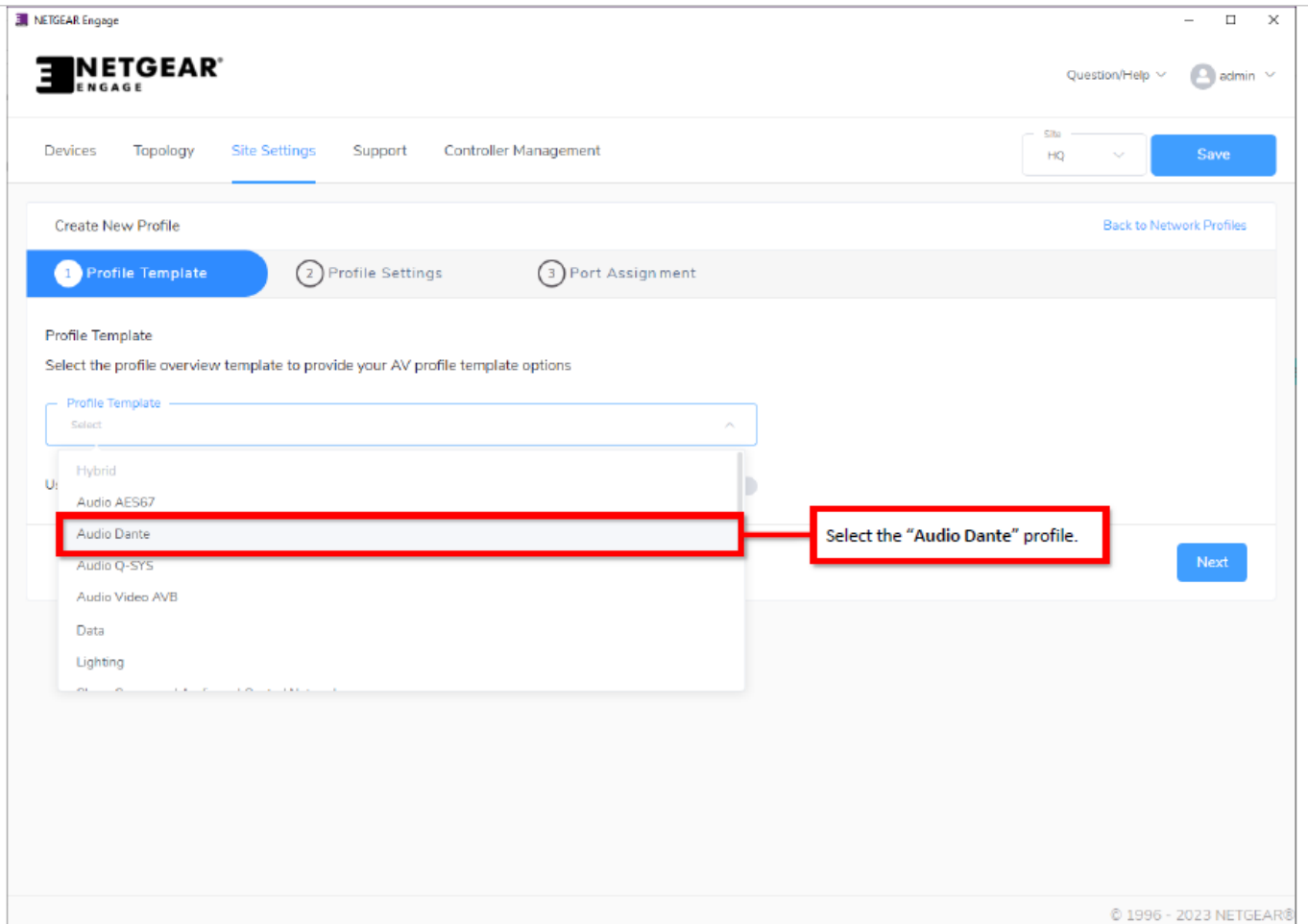
Profile Template

Use As Default VLAN Profile ☐

Next

Click on the drop-down to select the profile.

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Devices Topology Site Settings Support Controller Management

Site HQ Save

Create New Profile Back to Network Profiles

1 Profile Template 2 Profile Settings 3 Port Assignment

Profile Settings

Configure your profile settings and preferences

Profile Name: Audio Profile Template: Audio Dante

VLAN ID: 20 Color: #1DDE5B

Previous Cancel Next

We are going to name this VLAN "Audio" and give it an ID of "20," then select the color for the profile.

Click on "Next."

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Devices Topology Site Settings Support Controller Management

Site HQ Save

Create New Profile Back to Network Profiles

1 Profile Template 2 Profile Settings 3 Port Assignment

Profile Name: Audio | VLAN ID: 20 | Profile Template: Audio Dante Show Legends Refresh

Click on the first switch to select the ports.

6YX32A5FA00F... 6YX32A5NA010...

Total Number of Configured Switches: 0 Search for Switch

Switch Name ↓	Model ↓	Configured Number of Ports ↓	Configured Ports
You have no configured switches for this network profile. Please assign ports for this network profile by clicking on the Switch from the above section.			

Previous Cancel Apply

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Devices Topology Site Settings Support Controller Management

Create New Profile Back to Network Profiles

1 Profile Template 2 Profile Settings 3 Port Assignment

Profile Name: Audio | VLAN ID: 20 | Profile Template: Audio Dante

6YX32A5FA00F7 6YX32A5NA010...

1 2 3 4 5 6 7 8 9 10

Untag all

Total Number of Configured Switches: 1

Switch Name Model Configured Number of Ports Configured Ports

6YX32A5FA00F7 M4250-8G2XF-PoE+ 2 M4250-8G2XF-PoE+ 6 7

Previous Cancel Apply

We are going to select ports 6 and 7.

After selecting the ports on the first switch click on the next switch.

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Devices Topology Site Settings Support Controller Management

Create New Profile Back to Network Profiles

1 Profile Template 2 Profile Settings 3 Port Assignment

Profile Name: Audio | VLAN ID: 20 | Profile Template: Audio Dante

6YX32A5FA00F7 6YX32A5NA010...

1 2 3 4 5 6 7 8 9 10

Untag all

Total Number of Configured Switches: 2

Switch Name Model Configured Number of Ports Configured Ports

6YX32A5NA0109 M4250-8G2XF-PoE+ 2 M4250-8G2XF-PoE+ 6 7

6YX32A5FA00F7 M4250-8G2XF-PoE+ 2 M4250-8G2XF-PoE+ 6 7

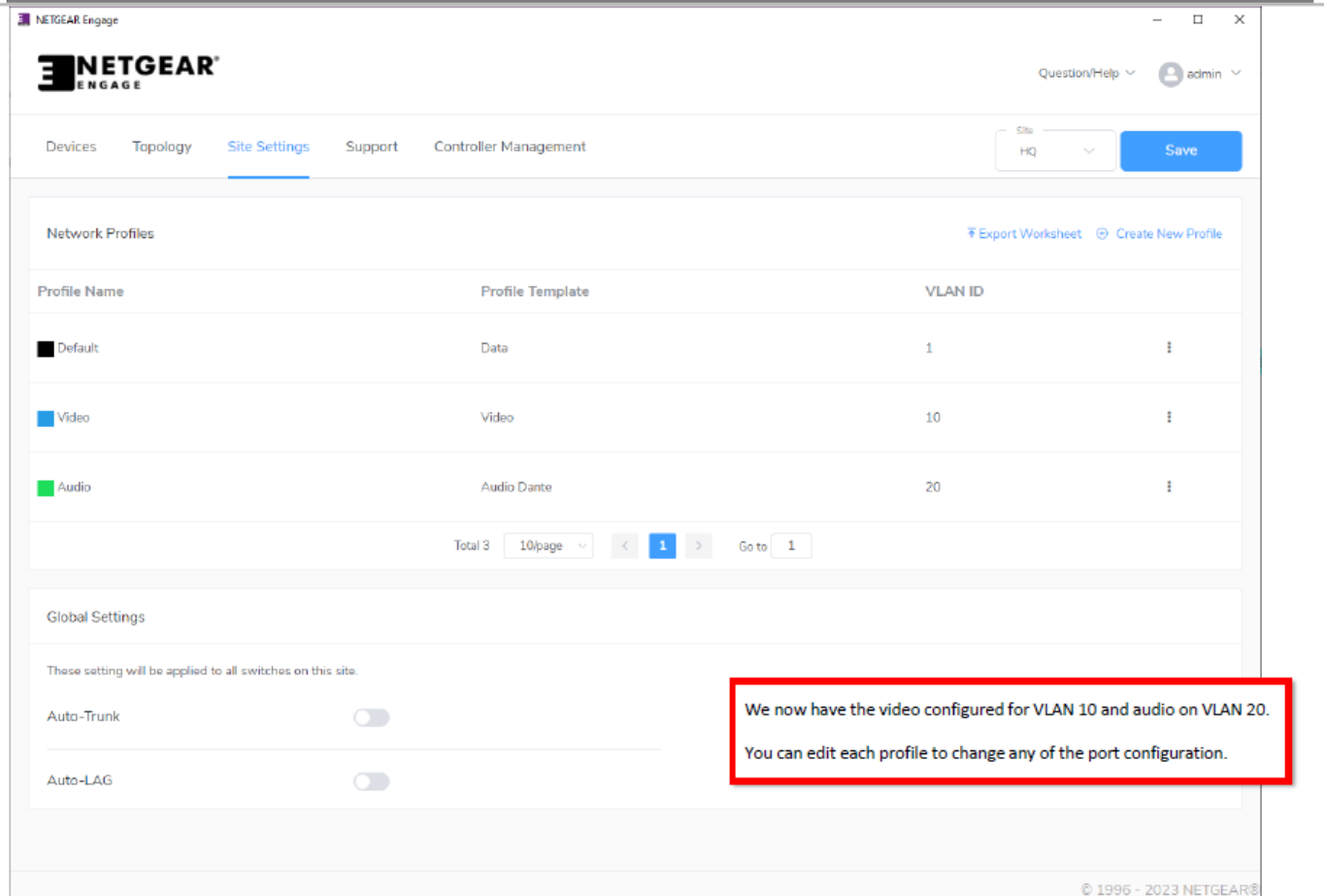
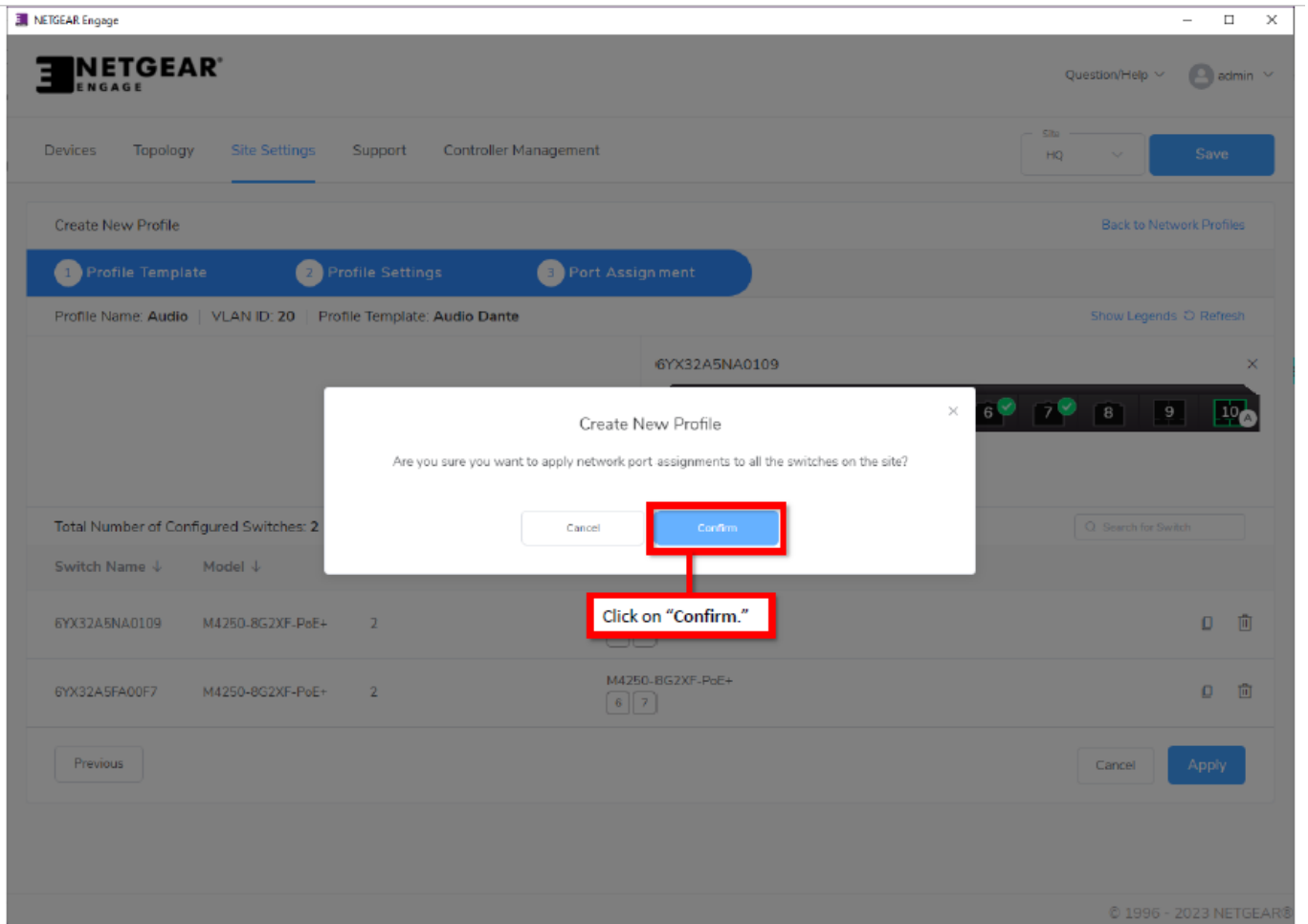
Previous Cancel Apply

We are going to select ports 6 and 7.

Click on "Apply."

If you have any more switches, you can add the ports you want by following these steps.

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Documents / Resources

	NETGEAR AV M4250 Configuring Audio and Video Over IP Switch [pdf] User Guide M4250, M4250 Configuring Audio and Video Over IP Switch, Configuring Audio and Video Over IP Switch, Audio and Video Over IP Switch, Video Over IP Switch, Over IP Switch, IP Switch, Switch
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[Manuals+](#).