



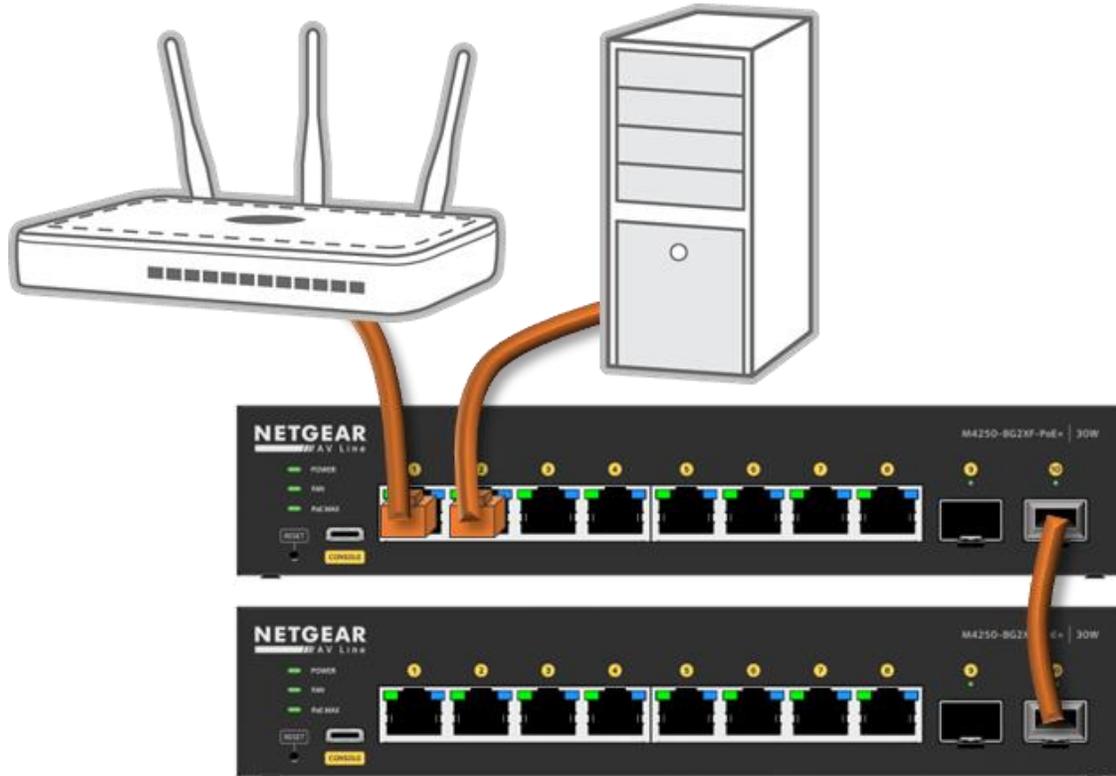
# Configuring Audio and Video Over IP

How to configure audio and video on separate VLANs.

# 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.



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

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

Profile Name	Profile Template	VLAN ID	
 Default	Data	1	

Total 1  ▾  **1**  Go to

Click on "Create New Profile."

Global Settings

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

Auto-Trunk



Auto-LAG



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## Profile Template

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

Profile Template

Select

Click on the drop-down  
to select the profile.

Use As Default VLAN Profile



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## Create New Profile

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## Profile Template

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

Profile Template

Select

Sonos

Video

Video NDI4

Video NDI5 with Dante, Q-Sys or AES67 audio

Video with AES67 audio

Video with Dante audio

Video with Q-SYS audio

Select the **“Video”** profile.

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### 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, Atlona, ATEN, LibAV, Visionary, Wyrestorm, Extron NAV, Dante AV, SDVoE & etc.

Use As Default VLAN Profile



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Click on "Next."

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## Profile Settings

Configure your profile settings and preferences

Profile Name Video	Profile Template Video ▾
VLAN ID 10	Color #269CE6

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

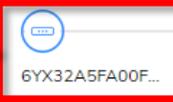
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Click on **"Next."**

Create New Profile

[Back to Network Profiles](#)**1** Profile Template**2** Profile Settings**3** Port AssignmentProfile Name: **Video** | VLAN ID: **10** | Profile Template: **Video**[Show Legends](#) [Refresh](#)**Click on the first switch to select the ports.**Total Number of Configured Switches: **0**

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.

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**Apply**

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Profile Name: **Video** | VLAN ID: **10** | Profile Template: **Video**

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We are going to select ports 4 and 5.

6YX32A5FA00F7

[Untag all](#)

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

Total Number of Configured Switches: **1**

Switch Name	Model	Ports		
6YX32A5FA00F7	M4250-8G2XF-PoE+	2 		

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3 Port Assignment

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

6YX32A5NA0109



We are going to select ports 4 and 5.

Total Number of Configured Switches: 2

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

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Cancel

Apply

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

Click on "Apply."

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Profile Name: Video | VLAN ID: 10 | Profile Template: Video

Show Legends Refresh

6YX32A5NA0109

Create New Profile

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

Cancel Confirm

Total Number of Configured Switches: 2

Switch Name ↓ Model ↓

6YX32A5NA0109 M4250-8G2XF-PoE+ 2

6YX32A5FA00F7 M4250-8G2XF-PoE+ 2

Click on "Confirm."

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Cancel Apply

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

## Network Profiles

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

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

Total 2  ▾

Click on "Create New Profile."

## Global Settings

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

Auto-Trunk



Auto-LAG



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## Profile Template

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

Profile Template

Select

Click on the drop-down  
to select the profile.

Use As Default VLAN Profile



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## Profile Template

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

Profile Template

Select

Hybrid

Audio AES67

Audio Dante

Audio Q-SYS

Audio Video AVB

Data

Lighting

Select the "Audio Dante" profile.

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## Profile Template

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

Profile Template

Audio Dante ▾

## Profile Description

To connect IP Audio Dante devices and their controller

Use As Default VLAN Profile



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Click on "Next."

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## Profile Settings

Configure your profile settings and preferences

Profile Name Audio	Profile Template Audio Dante ▾
VLAN ID 20	Color <input checked="" type="checkbox"/> #1DDE5B

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

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Click on **"Next."**

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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.



Total Number of Configured Switches: 0

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.

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Cancel

Apply

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

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We are going to select ports 6 and 7.

6YX32A5FA00F7

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

Total Number of Configured Switches: 1

Switch Name	Model	Ports
6YX32A5FA00F7	M4250-8G2XF-PoE+	2
	M4250-8G2XF-PoE+	

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

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6YX32A5NA0109



We are going to select ports 6 and 7.

**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+ <input type="text" value="6"/> <input type="text" value="7"/>		
6YX32A5FA00F7	M4250-8G2XF-PoE+	2	M4250-8G2XF-PoE+ <input type="text" value="6"/> <input type="text" value="7"/>		

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**Cancel**

**Apply**

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

Click on "Apply."

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

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6YX32A5NA0109

**Create New Profile**

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

Click on **"Confirm."**

Total Number of Configured Switches: 2

Switch Name Model

6YX32A5NA0109 M4250-8G2XF-PoE+ 2

6YX32A5FA00F7 M4250-8G2XF-PoE+ 2

6 7

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## Network Profiles

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Profile Name	Profile Template	VLAN ID	
 Default	Data	1	⋮
 Video	Video	10	⋮
 Audio	Audio Dante	20	⋮

Total 3  [<](#) [1](#) [>](#) Go to

## Global Settings

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

Auto-Trunk



Auto-LAG



We now have the video configured for VLAN 10 and audio on VLAN 20.

You can edit each profile to change any of the port configuration.

