



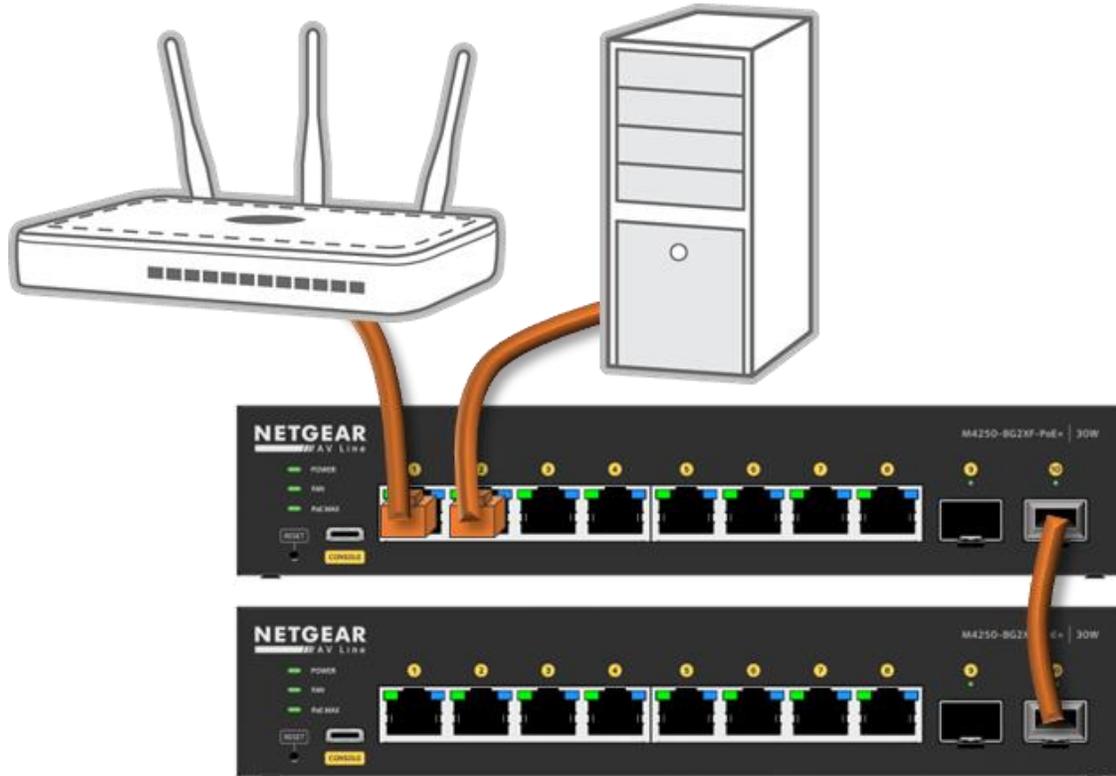
# Configuring AES67 Audio over IP requiring PTP Transparent Clock

How to configure AES67 Audio over IP and enabling PTPv2.

# Configuring AES67 Audio over IP requiring PTP Transparent Clock

In this guide we will be going over how to configure a network with AES67 Audio over IP requiring PTP Transparent Clock.

We will be configuring the network for AES67 Audio over IP and then enabling PTPv2 on each switch.



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

Devices

Topology

**Site Settings**

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Controller Management

Site

HQ ▾

Save

## Network Profiles

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

Profile Name	Profile Template	VLAN ID	
 Default	Data	1	

Total 1  ▾  **1**  Go to

## Global Settings

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

Auto-Trunk



Auto-LAG



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## Network Profiles

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

Profile Name	Profile Template	VLAN ID
Default	Data	1

Total 1  < **1** > Go to

[Edit](#)

Click on the menu icon for the default VLAN and then click on "Edit."

## Global Settings

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

Auto-Trunk



Auto-LAG



Edit 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

Data



Hybrid

Audio AES67

Audio Dante

Audio Q-SYS

Audio Video AVB

Data

Lighting

Click on the drop-down for "Profile Template" and select "Audio AES67."

Edit Profile

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1 Profile Template

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Profile Template

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

Profile Template  
Audio AES67

Next

Click on "Next."

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Edit Profile

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1 Profile Template

2 Profile Settings

3 Port Assignment

## Profile Settings

Configure you profile settings and and preferences

Profile Name

Default

Profile Template

Audio AES67 ▾

VLAN ID

1

Color

 #000000

Previous

Cancel

Next

Click on "Next."

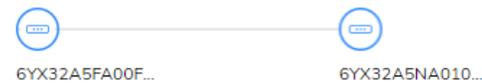
Edit Profile

[Back to Network Profiles](#)

1 Profile Template

2 Profile Settings

3 Port Assignment

Profile Name: **Default** | VLAN ID: **1** | Profile Template: **Audio AES67**[Show Legends](#) [Refresh](#)

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.

Previous

Cancel

Apply

Click on "Apply."

Edit Profile

[Back to Network Profiles](#)

- 1 Profile Template
- 2 Profile Settings
- 3 Port Assignment

Profile Name: **Default** | VLAN ID: **1** | Profile Template: **Audio AES67**

[Show Legends](#) [Refresh](#)

**Edit 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: **0**

Switch Name Model Configured Number of Ports Configured Port

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

Click on "Devices."

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### Network Profiles

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

Profile Name	Profile Template	VLAN ID	
Default	Audio AES67	1	⋮

Total 1  < 1 > Go to

### Global Settings

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

Auto-Trunk

Auto-LAG

Managed Devices

[+ Add Device](#)

Switch Model	System Name	Serial Number	IP Address	FW Version	AV Version	Status	
M4250-8G2XF-PoE+ GSM4210PX		6YX32A5FA00F7	192.168.77.103	13.0.4.13	2.2.3.16	Online	<a href="#">Configure</a>
M4250-8G2XF-PoE+ GSM4210PX		6YX32A5NA0109	192.168.77.106	13.0.4.13	2.2.3.16	Online	<a href="#">Configure</a>

Total 2  **1** Go to

Click on "Configure" for the first switch.

Discovered Devices

Switch Model	System Name	Serial Number	MAC Address	IP Address	FW Version	AV Version
 You do not have any discovered devices						

Total 0  **1** Go to

### Overview

Configure | Overview

#### M4250-8G2XF-PoE+

Show Legends

Network Profiles

Click on "Network Profiles."



Link Aggregation

Multicast

Neighbor

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Diagnostics

- Connected
- Connected & Powered
- Error
- Disabled
- Available
- Blocked
- Admin Down
- Warning
- Force-Authorized
- Force-Unauthorized
- Authorized
- Unauthorized
- LAG
- VLAN Trunk
- Auto Trunk
- PoE
- PoE Disabled
- Force Multicast
- 1G SFP Fiber Port
- 10G SFP+ Fiber Port
- Shure Device Connected

### Device Details

Product Name M4250	Serial Number 6YX32A5FA00F7	Model M4250-8G2XF-PoE+	Date & Time 2023-03-24 03:44:39	Country/Region N/A
Base MAC Address 94:18:65:7D:5D:25	System Name 	Firmware Version 13.0.4.13	AV UI Version 2.2.3.16	Boot Version 1.0.0.11
System Uptime				

## Network Profiles

Configure | Network Profiles

### M4250-8G2XF-PoE+

Show Legends



Auto-Trunk

Enable the toggle for "PTP residency time stamping."

PTP residency time stamping

- |   |   |  |   |
|---|---|--|---|
| <span style="color: green;">●</span> Connected              | <span style="color: blue;">○</span> Connected & Powered | <span style="color: red;">○</span> Error               | <span style="color: gray;">●</span> Disabled              |
| <span style="color: black;">●</span> Available              | <span style="color: red;">⊘</span> Blocked              | <span style="color: red;">!</span> Admin Down          | <span style="color: orange;">⚠</span> Warning             |
| <span style="color: gray;">🔍</span> Force-Authorized        | <span style="color: red;">🔍</span> Force-Unauthorized   | <span style="color: black;">🔒</span> Authorized        | <span style="color: black;">🔒</span> Unauthorized         |
| <span style="color: black;">L</span> LAG                    | <span style="color: black;">T</span> VLAN Trunk         | <span style="color: black;">A</span> Auto Trunk        | <span style="color: green;">+</span> PoE                  |
| <span style="color: red;">+</span> PoE Disabled             | <span style="color: black;">+</span> Force Multicast    | <span style="color: black;">S</span> 1G SFP Fiber Port | <span style="color: black;">S+</span> 10G SFP+ Fiber Port |
| <span style="color: green;">🌐</span> Shure Device Connected |   |  |   |

### Configured Profiles

Edit the Default Profile VLAN 1 to change its profile template

### Network Profiles

Configure | Network Profiles

M4250-8G2XF-PoE+

Show Legends



Auto-Trunk

PTP residency time stamping

- |                        |                     |                   |                     |
|------------------------|---------------------|-------------------|---------------------|
| Connected              | Connected & Powered | Error             | Disabled            |
| Available              | Blocked             | Admin Down        | Warning             |
| Force-Authorized       | Force-Unauthorized  | Authorized        | Unauthorized        |
| LAG                    | VLAN Trunk          | Auto Trunk        | PoE                 |
| PoE Disabled           | Force Multicast     | 1G SFP Fiber Port | 10G SFP+ Fiber Port |
| Shure Device Connected |                     |                   |                     |

#### Configured Profiles

Edit the Default Profile VLAN 1 to change its profile template

Click on "Devices."

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## Network Profiles

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### M4250-8G2XF-PoE+

Show Legends



Auto-Trunk

PTP residency time stamping

- Connected
- Available
- Force-Authorized
- LAG
- PoE Disabled
- Shure Device Connected
- Connected & Powered
- Blocked
- Force-Unauthorized
- VLAN Trunk
- Force Multicast
- Error
- Admin Down
- Authorized
- Auto Trunk
- 1G SFP Fiber Port
- Disabled
- Warning
- Unauthorized
- PoE
- 10G SFP+ Fiber Port

### Configured Profiles

Edit the Default Profile VLAN 1 to change its profile template

Managed Devices

+ Add Device

Switch Model	System Name	Serial Number	IP Address	FW Version	AV Version	Status	
M4250-8G2XF-PoE+ GSM4210PX		6YX32A5FA00F7	192.168.77.103	13.0.4.13	2.2.3.16	Online	Configure
M4250-8G2XF-PoE+ GSM4210PX		6YX32A5NA0109	192.168.77.106	13.0.4.13	2.2.3.16	Online	Configure

Total 2 10/page < 1 > Go to 1

Click on "Configure" for the next switch.

Discovered Devices

Switch Model	System Name	Serial Number	MAC Address	IP Address	FW Version	AV Version
... You do not have any discovered devices						

Total 0 10/page < 1 > Go to 1

## Overview

Configure | Overview

### M4250-8G2XF-PoE+

Show Legends

Network Profiles

Click on "Network Profiles."

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- Connected
- Connected & Powered
- Error
- Disabled
- Available
- Blocked
- Admin Down
- Warning
- Force-Authorized
- Force-Unauthorized
- Authorized
- Unauthorized
- LAG
- VLAN Trunk
- Auto Trunk
- PoE
- PoE Disabled
- Force Multicast
- 1G SFP Fiber Port
- 10G SFP+ Fiber Port
- Shure Device Connected

## Device Details

Product Name M4250	Serial Number 6YX32A5NA0109	Model M4250-8G2XF-PoE+	Date & Time 2023-03-24 03:46:09	Country/Region N/A
Base MAC Address 94:18:65:7D:5D:6D	System Name 	Firmware Version 13.0.4.13	AV UI Version 2.2.3.16	Boot Version 1.0.0.11
System Uptime				

## Network Profiles

Configure | Network Profiles

### M4250-8G2XF-PoE+

Show Legends



Auto-Trunk

Enable the toggle for "PTP residency time stamping."

PTP residency time stamping

- |  |   |   |   |
|--|---|---|---|
| <input checked="" type="radio"/> Connected   | <input type="radio"/> Connected & Powered | <input type="radio"/> Error             | <input type="radio"/> Disabled            |
| <input checked="" type="radio"/> Available   | <input type="radio"/> Blocked             | <input type="radio"/> Admin Down        | <input type="radio"/> Warning             |
| <input type="radio"/> Force-Authorized       | <input type="radio"/> Force-Unauthorized  | <input type="radio"/> Authorized        | <input type="radio"/> Unauthorized        |
| <input type="radio"/> LAG                    | <input type="radio"/> VLAN Trunk          | <input type="radio"/> Auto Trunk        | <input type="radio"/> PoE                 |
| <input type="radio"/> PoE Disabled           | <input type="radio"/> Force Multicast     | <input type="radio"/> 1G SFP Fiber Port | <input type="radio"/> 10G SFP+ Fiber Port |
| <input type="radio"/> Shure Device Connected |   |   |   |

### Configured Profiles

Edit the Default Profile VLAN 1 to change its profile template

### Network Profiles

Configure | Network Profiles

M4250-8G2XF-PoE+

Show Legends



Auto-Trunk

PTP residency time stamping

- Connected
- Available
- Force-Authorized
- LAG
- PoE Disabled
- Shure Device Connected
- Connected & Powered
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- Force-Unauthorized
- VLAN Trunk
- Force Multicast
- Error
- Admin Down
- Authorized
- Auto Trunk
- 1G SFP Fiber Port
- Disabled
- Warning
- Unauthorized
- PoE
- 10G SFP+ Fiber Port

#### Configured Profiles

Edit the Default Profile VLAN 1 to change its profile template

Click on "Devices."

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## Network Profiles

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### M4250-8G2XF-PoE+

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Auto-Trunk

PTP residency time stamping

- Connected
- Connected & Powered
- Error
- Disabled
- Available
- ⊘ Blocked
- ! Admin Down
- ⚠ Warning
- 🔍 Force-Authorized
- 🔍 Force-Unauthorized
- 🔒 Authorized
- 🔒 Unauthorized
- L LAG
- T VLAN Trunk
- A Auto Trunk
- + PoE
- + PoE Disabled
- + Force Multicast
- S 1G SFP Fiber Port
- S+ 10G SFP+ Fiber Port
- 🌐 Shure Device Connected

### Configured Profiles

Edit the Default Profile VLAN 1 to change its profile template

If you have any more switches on your network, enable the "PTP residency time stamping" by following the same steps.

Devices Topology Site Settings Support Controller Management

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HQ

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### Managed Devices

[Add Device](#)

Switch Model	System Name	Serial Number	IP Address	FW Version	AV Version	Status	
M4250-8G2XF-PoE+ GSM4210PX		6YX32A5FA00F7	192.168.77.103	13.0.4.13	2.2.3.16	Online	<a href="#">Configure</a>
M4250-8G2XF-PoE+ GSM4210PX		6YX32A5NA0109	192.168.77.106	13.0.4.13	2.2.3.16	Online	<a href="#">Configure</a>

Total 2  **1** Go to

### Discovered Devices

Switch Model	System Name	Serial Number	MAC Address	IP Address	FW Version	AV Version
 You do not have any discovered devices						

Total 0  **1** Go to

We have now configured our network with AES67 Audio over IP requiring PTP transparent clock.

