



NETGEAR AV AES67 Audio Over IP Requiring PTP Transparent Clock User Guide

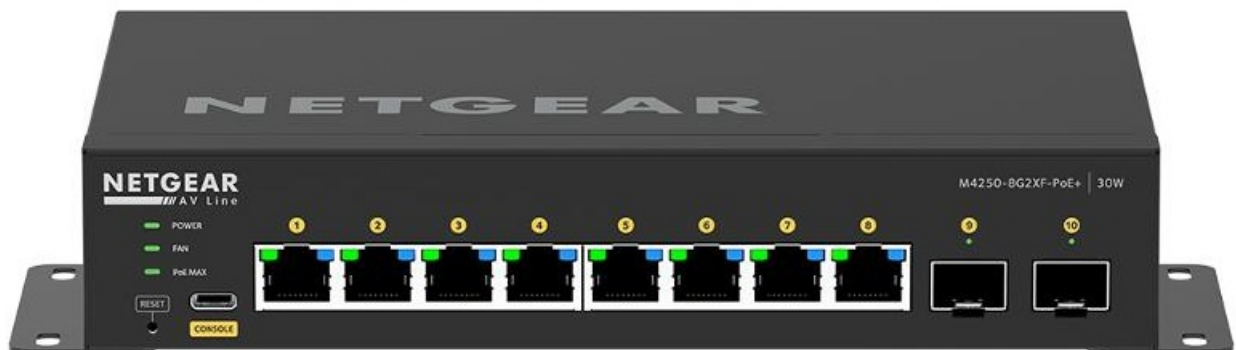
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NETGEAR® AV

NETGEAR AV AES67 Audio Over IP Requiring PTP Transparent Clock



Product Information

This guide provides instructions on how to configure a network with AES67 Audio over IP requiring PTP Transparent Clock. It involves configuring the network for AES67 Audio over IP and enabling PTPv2 on each switch.

Usage Instructions

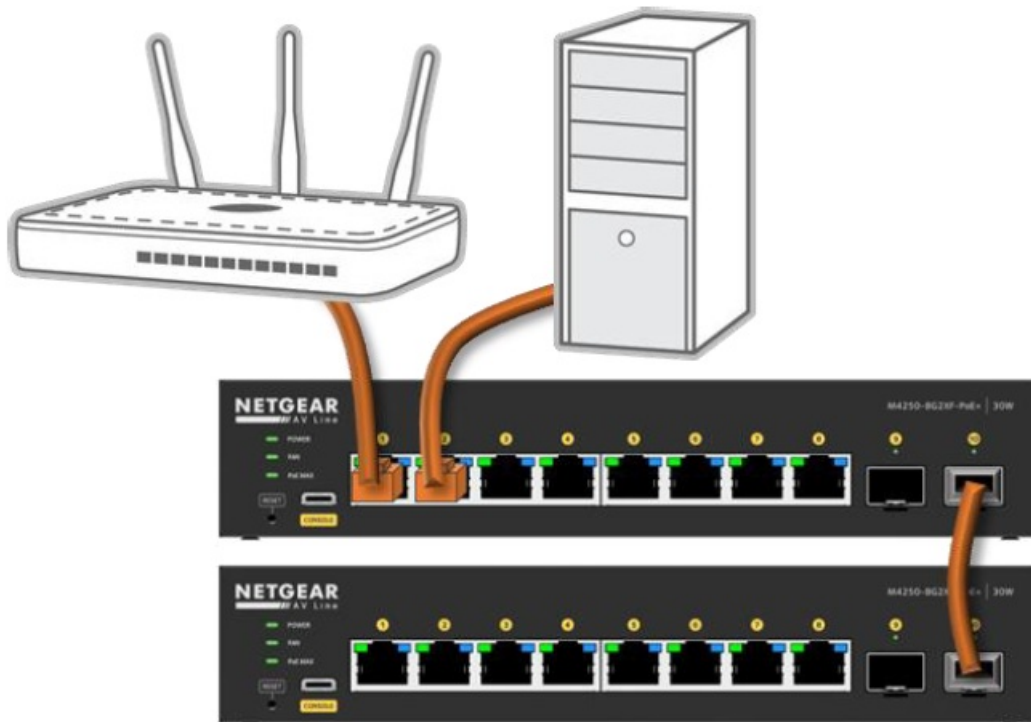
1. Open the Engage controller and navigate to Site Settings.
2. Click on the menu icon for the default VLAN and select Edit.
3. From the Profile Template drop-down, choose Audio AES67.
4. Click on Next.
5. Click on Next.
6. Click on Apply.
7. Click on Confirm.
8. Click on Devices.
9. Select Configure for the first switch.
10. Click on Network Profiles.
11. Enable the toggle for PTP residency time stamping.
12. Click on Save.
13. Click on Devices.
14. Select Configure for the next switch.
15. Click on Network Profiles.
16. Enable the toggle for PTP residency time stamping.
17. Click on Save.
18. If you have more switches on your network, repeat the above steps to enable PTP residency time stamping for each switch.
19. Once completed, your network will be configured with AES67 Audio over IP requiring PTP transparent clock.

Note: Please refer to the user manual for additional information and troubleshooting steps if needed.

Configuring

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.



INSTALLATION INSTRUCTION

NETGEAR Engage

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

Question/Help admin

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

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 ☐

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NETGEAR Engage

NETGEAR ENGAGE

Question/Help admin

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

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 ☐

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

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Question/Help admin

Devices Topology Site Settings Support Controller Management

Site HQ Save

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

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

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Question/Help admin

DevicesTopologySite SettingsSupportController Management

SiteHQSave

Edit 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

Audio AES67

Next

Click on "Next."

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Question/Help admin

DevicesTopologySite SettingsSupportController Management

SiteHQSave

Edit ProfileBack to Network Profiles

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

CancelNext

Click on "Next."

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Question/Help admin

Devices Topology Site Settings Support Controller Management

Site: HQ Save

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

6YK32A5FA00F... 6YK32A5NA010...

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

Click on "Apply."

NETGEAR Engage

Question/Help admin

Devices Topology Site Settings Support Controller Management

Site: HQ Save

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 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

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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Export Worksheet

Create New Profile

Profile Name	Profile Template	VLAN ID
Default	Audio AES67	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

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Question/Help admin

Devices

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Save

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
M4250-8G2XF-PoE+ GSM4210PX		6YX32A5NA0109	192.168.77.106	13.0.4.13	2.2.3.16	Online

Total 2

10/page

< 1 >

Go to 1

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

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Question/Help admin

Devices Topology Site Settings Support Controller Management

Devices Management

Configure

Overview

Network Profiles

Click on "Network Profiles."

M4250-8G2XF-PoE+

Show Legends

1 2 3 4 5 6 7 8 9 10

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

Device Details

Product Name	Serial Number	Model	Date & Time	Country/Region
M4250	6YX32A5FA00F7	M4250-8G2XF-PoE+	2023-03-24 03:44:39	N/A
Base MAC Address	System Name	Firmware Version	AV UI Version	Boot Version
94:18:55:7D:5D:25		13.0.4.13	2.2.3.16	1.0.0.11
System Uptime				

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Devices Topology Site Settings Support Controller Management

Devices Management

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M4250-8G2XF-PoE+

Show Legends

1 2 3 4 5 6 7 8 9 10

Auto-Trunk

Enable the toggle for "PTP residency time stamping."

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 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

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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

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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
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

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Devices Topology Site Settings Support Controller Management

Site HQ Save

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
M4250-8G2XF-PoE+ GSM4210PX		6YX32A5NA0109	192.168.77.106	13.0.4.13	2.2.3.16	Online

Total 2 10/page < 1 > Go to 1

Discovered Devices

Switch Model	System Name	Serial Number	MAC Address	IP Address	FW Version	AV Version
--------------	-------------	---------------	-------------	------------	------------	------------

Total 0 10/page < 1 > Go to 1

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Click on "Configure" for the next switch.

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M4250-8G2XF-PoE+ [Show Legends](#)

Network Profiles

Click on "Network Profiles."

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Configure | Overview

3 4 5 6 7 8 9 10

- 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

Device Details

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

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M4250-8G2XF-PoE+ [Show Legends](#)

1 2 3 4 5 6 7 8 9 10

Auto-Trunk ☒

Enable the toggle for "PTP residency time stamping."

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

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M4250-8G2XF-PoE+ [Show Legends](#)

1 2 3 4 5 6 7 8 9 10

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

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Question/Help admin

Click on "Devices."

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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-Unauthenticated
- VLAN Trunk
- Force Multicast
- Error
- Admin Down
- Authorized
- 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

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Question/Help admin

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

Site HQ Save

Managed Devices

[Add Device](#)

Switch Model	System Name	Serial Number	IP Address	FW Version	AV Version	Status
M4250-8G2XF-PoE+ GSM4210FX		6YX32A5FA00F7	192.168.77.103	13.0.4.13	2.2.3.16	Online
M4250-8G2XF-PoE+ GSM4210FX		6YX32A5NA0109	192.168.77.106	13.0.4.13	2.2.3.16	Online

Total 2 10/page < 1 > Go to 1

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

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

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Documents / Resources

	NETGEAR AV AES67 Audio Over IP Requiring PTP Transparent Clock [pdf] User Guide AES67, AES67 Audio Over IP Requiring PTP Transparent Clock, Audio Over IP Requiring PTP Transparent Clock, Over IP Requiring PTP Transparent Clock, Requiring PTP Transparent Clock, PTP Transparent Clock, Transparent Clock, Clock
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