JPRO
EXPERIENCE AVC

NETGEAR®
### BUSINESS

NETGEAR AV LINE

NMX Configuration Guide

NETGEAR AV Line Switch NMX Configuration Guide

1. Register your switch on NETGEAR's website by following the steps found on this website (https://kb.netgear.com/26904/How-do-I-register-a-product-on-MyNETGEAR?article=26904)
    a. Registration benefits include:
        i. Access to online documentation, NETGEAR AV support (online chat & phone for 90 days after registration), and warranty claims.
        ii. Stay up to date with new security issues that might affect your switch.
        iii. NETGEAR Single Sign-On and Extended Warranty options.
2. Set Laptop NIC to a 192.168.0.xxx address and connect an Ethernet cable to the Out-of-Bounds (OOB) port.
    a. Note: do not connect any SVSI/NMX units until the switch configuration is complete to avoid flooding or network congestion.
3. Enter the IP address 192.168.0.239 into your browser.
4. Enter the following credentials into the AV UI fields:
    a. Username: admin
    b. Password: blank (no password)
5. Choose a new username & password combination.
6. Log back into the switch.
7. Download the latest firmware for your switch model (https://www.netgear.com/support/).
    a. It's important to have the latest firmware loaded on the switch because the AV profiles are constantly updated by the manufacturers for optimal performance. Treat it as if it were an AV appliance.
8. Select Maintenance on the left-hand side menu.

9. Choose the non-active firmware version and click on 'Browse File' field.

Maintenance
Configure | Maintenance

Firmware Update

○ 13.0.2.31   ○ 13.0.4.7   ✓ Active
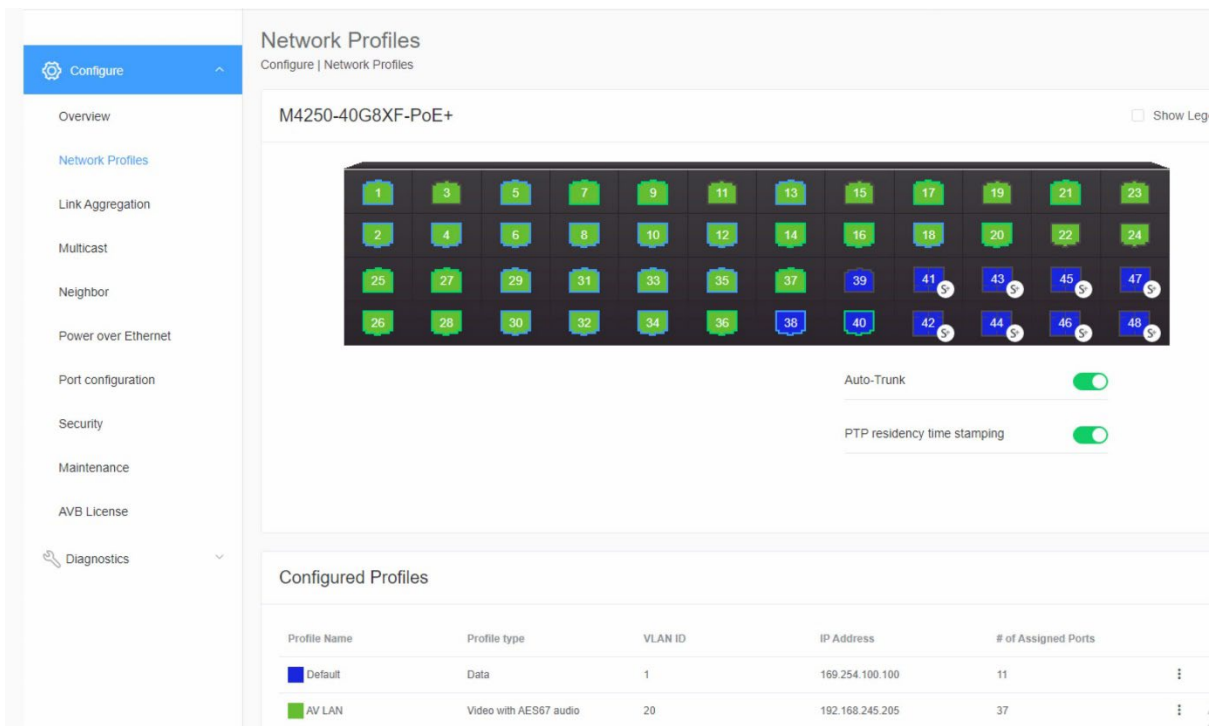
Browse File
⤒
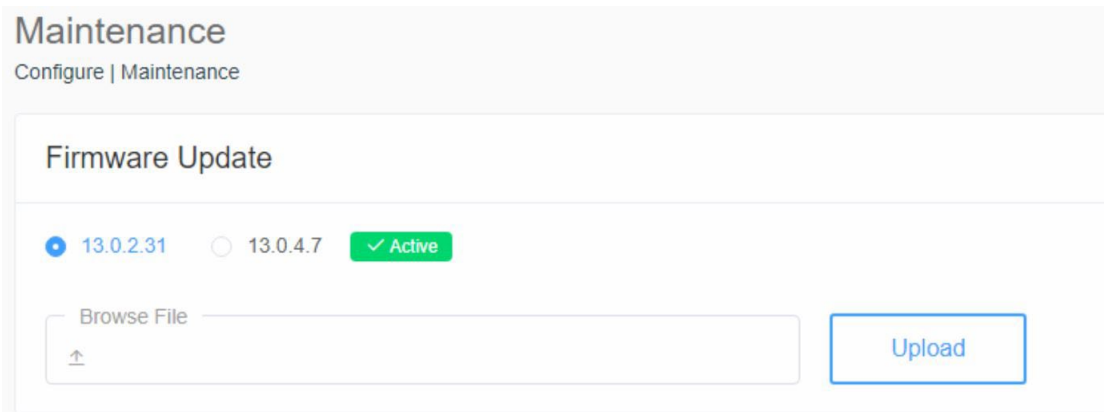
Upload

10. Navigate to and select the firmware file you just downloaded.
11. Click Upload. The switch will update and reboot automatically.
12. Once the switch has rebooted, access the switch again using the 192.168.0.239 OOB IP Address.
13. Select 'Network Profiles' on the left-hand side.

Network Profiles
Configure | Network Profiles

M4250-40G8XF-PoE+   ☐ Show Leg

Auto-Trunk   ⬤
PTP residency time stamping   ⬤

Configure
- Overview
- Network Profiles
- Link Aggregation
- Multicast
- Neighbor
- Power over Ethernet
- Port configuration
- Security
- Maintenance
- AVB License
- Diagnostics

Configured Profiles

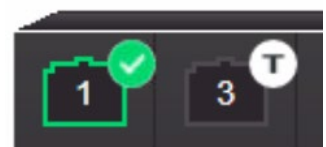| Profile Name	Profile type	VLAN ID	IP Address	# of Assigned Ports	
■ Default	Data	1	169.254.100.100	11	⋮
■ AV LAN	Video with AES67 audio	20	192.168.245.205	37	⋮

14. Under 'Profile Templates', select 'Video with AES67 audio' by clicking on the cog icon.

Video with AES67 audio
To connect IP Video devices and their controller. Audio AES67 supported at the same time in the same VLAN. Supported devices include NVX, AMX, ZeeVee, Aurora, Kramer, Atlona, LibAV, Visionary, Dante Video, SDVoE & etc.   ⚙

15. Select which ports you want to add to the VLAN (untagged/tagged).
    a. Untagged (Tick Mark) = Access Port, this port belongs to one VLAN only (in this case, it is the VLAN which you just created).
    b. Tagged (T) = Trunk Port, this port can belong to multiple VLANs and is commonly used to connect to another switch.

16. Enter a Profile Name.
17. Enter a VLAN ID (anything between 2 – 4094).
18. Toggle the 'Edit VLAN Routing/DHCP Server' button.

19. Ensure VLAN IP settings field is set to Static.
    a. If there is a DHCP server already on your network, you can select DHCP Client, and this will automatically choose an IP address for your switch.
20. Enter a VLAN IP Address (this is the IP address you will enter into your browser when accessing the switch's webpage).
    a. The subnet mask will auto-populate.
21. Under DHCP Server, either choose Off or DHCP Server. If you select DHCP Server, this will enable the DHCP Server on the switch and will automatically lease IP addresses to devices on that VLAN.
    a. Default Router: this is the gateway IP address of the VLAN. It will auto-populate and should be the same as the VLAN IP address.
    b. DHCP Server Pool Start: indicates the first available IP address that will be handed out to devices.
    c. DHCP Server Pool End: indicates the last available IP address that will be handed out to devices.
    d. DNS Server 1: the primary DNS server address, only required if you're using a DNS server otherwise use 8.8.8.8 (Google's DNS Server).
    e. DNS Server 2: can be left blank.

f.   Search Domain: also known as the default gateway and is used to route traffic that is not destined for your local network. Set this to be the IP address of your router.

22. Click 'Apply'.
23. Save the switch running configuration to the startup configuration by clicking on the Save icon at the top of the screen.

24. Reboot the switch and confirm that the configuration has been saved.
25. Connect AMX NMX devices to the relevant switch ports and test if the video routing works correctly.