

LUXULTM



NewTek NDI Configuration Guide
for Luxul Switches

Switch Web Administration Login

- Login to switch via web browser.
- If your network is not currently on a 192.168.0.x subnet, you may need to temporarily set your computer to a static IP subnet of 192.168.0.x. It is also recommended to change the IP address of the switch to match the subnet of your network.

- Default IP address of the switches are:
 - AMS-2600 = 192.168.0.2
 - AMS/XMS-1208P = 192.168.0.3
 - All other AMS/XMS models = 192.168.0.4
 - SW-510/610 Series – DHCP by default

- Default username = admin
- Default password = admin*
 - Firmware will require a password change upon initial setup

Flow Control & Jumbo Frames Setup

- Navigate to Configuration > Ports > Ports
- On Ports with NDI Connected Devices
 - Check mark on Flow Control Enable
 - Set Maximum Frame Size = 1518 (Disables Jumbo Frames)
- Click Save at bottom of screen

Port Configuration



Port	Link	Speed		Adv Duplex		Adv speed			Flow Control			Maximum Frame Size	Excessive Collision Mode
		Current	Configured	Fdx	Hdx	10M	100M	1G	Enable	Curr Rx	Curr Tx		
*			<>	<input checked="" type="checkbox"/>			1518	<>					
1	✓	1Gfdx	Auto	<input checked="" type="checkbox"/>	✓	✓	1518	Discard					
2	✗	Down	Auto	<input checked="" type="checkbox"/>	<input type="checkbox"/>	✗	✗	9600	Discard				
3	✗	Down	Auto	<input checked="" type="checkbox"/>	<input type="checkbox"/>	✗	✗	9600	Discard				

IGMP Basic Setup

- Navigate to Configuration > IPMC > IGMP Snooping > Basic Configuration
- Check mark on Snooping Enabled
- Unregistered IPMCv4 Flooding Enabled should already be checked. See note on next page.
- Check mark on Fast Leave for all ports
 - Check mark on the top line labeled * is a global setting for all ports
- Click Save at bottom of screen

IGMP Snooping Configuration

Stack Global Settings

Global Configuration	
Snooping Enabled	<input checked="" type="checkbox"/>
Unregistered IPMCv4 Flooding Enabled	<input checked="" type="checkbox"/>
IGMP SSM Range	232.0.0.0 / 8
Leave Proxy Enabled	<input type="checkbox"/>
Proxy Enabled	<input type="checkbox"/>

Port Related Configuration for Switch 1

Port	Router Port	Fast Leave	Throttling
*	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<>
1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	unlimited
2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	unlimited
3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	unlimited
4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	unlimited
5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	unlimited

Unregistered Flooding

When using a dedicated switch only for your video distribution system, it is common for this box to be unchecked.

Unchecking this box stops broadcast traffic from passing through the switch, therefore broadcasts and all auto discovery devices will not discover each other. Leave this box checked if using the switch for any traffic additional to video distribution.

For example, if using a switch for both video distribution and an automation system or any other standard network traffic, this box must remain checked. Otherwise the auto discovery of devices will not work and you will not be able to see those devices on the network.

IGMP VLAN Setup

- Navigate to Configuration > IPMC > IGMP Snooping > VLAN Configuration
- Add New IGMP VLAN
- Check Snooping Enabled
- Check Querier Election
- Put in IP Address of switch in Querier Address or leave at 0.0.0.0 *see note on next page
- Select Forced IGMPv2
- Click Save

IGMP Snooping VLAN Configuration

Start from VLAN with entries per page.

Delete	VLAN ID	Snooping Enabled	Querier Election	Querier Address	Compatibility
<input type="checkbox"/>	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="text" value="192.168.0.4"/>	Forced IGMPv2 ▾

[Add New IGMP VLAN](#)

[Save](#) [Reset](#)

Querier Address

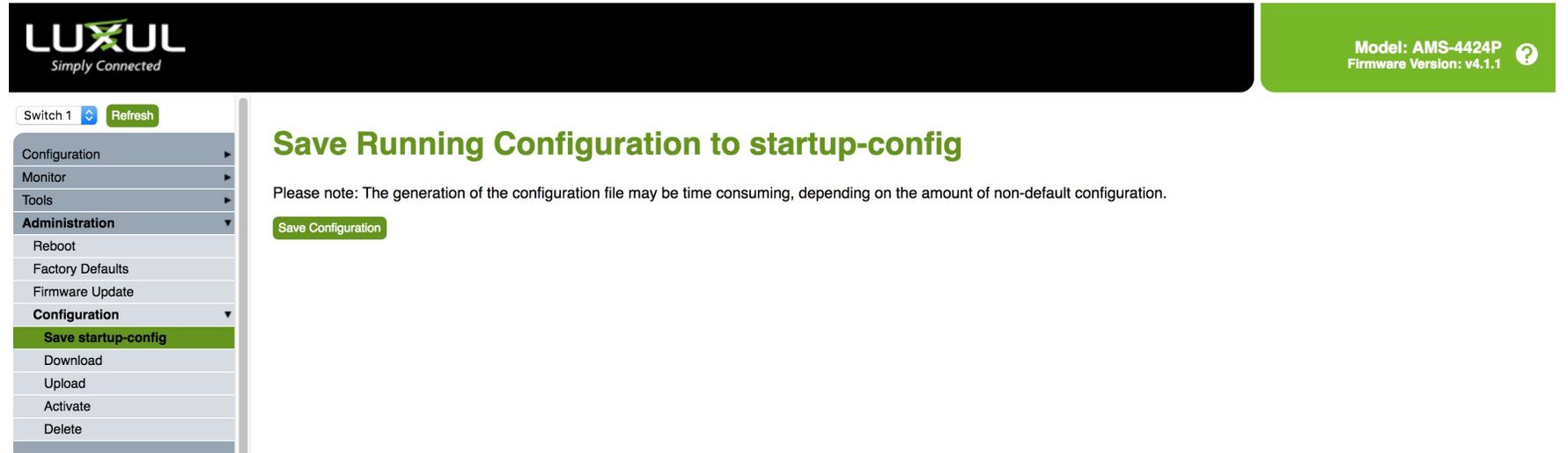
*Note: If using only one switch for your video distribution system, the Querier IP Address can be left at 0.0.0.0 and the switch will automatically use the management IP address of the interface associated with this VLAN. The Querier address can also be set as the management IP address of the switch.

If using more than one switch for your video distribution system, set Querier IP address as the IP address of the main/first switch in the video distribution system. Set all secondary switches Querier IP address as IP address of the main/first switch.

For example, if your main/first switch has an IP address of 192.168.0.4, then the Querier should be set at 192.168.0.4. Then set the Querier address on all secondary switches to 192.168.0.4 as there can only be one querier per VLAN. Be sure all secondary switches have a management IP address different than the main switch to avoid IP conflicts.

Save Startup Config

- Navigate to Administration > Configuration > Save startup-config
- Click Save Configuration



The screenshot displays the LUXUL web interface. At the top left is the LUXUL logo with the tagline 'Simply Connected'. At the top right, a green box shows 'Model: AMS-4424P' and 'Firmware Version: v4.1.1'. Below the logo, there is a 'Switch 1' dropdown and a 'Refresh' button. A left-hand navigation menu lists several categories: Configuration, Monitor, Tools, Administration, Reboot, Factory Defaults, Firmware Update, Configuration, Save startup-config (highlighted in green), Download, Upload, Activate, and Delete. The main content area is titled 'Save Running Configuration to startup-config' in green. Below this title is a note: 'Please note: The generation of the configuration file may be time consuming, depending on the amount of non-default configuration.' A green 'Save Configuration' button is positioned below the note.