AES67

Switch setup

Typical installation

One multicast audio sender and receiver share VLAN 1. Both use the AES67 default packet markings.

1 Connect the equipment

Connect the endpoints and your laptop to the same AV network. Open the switch's management address in a browser and sign in. In System Information, confirm NRS8T2P. Use Configuration > Ports to check the connected links.

2 Check the endpoint profile

Select compatible AES67 settings on both devices. Match the sample rate, packet time and PTP domain (the clock group). Use the normal Ethernet frame size. For this one-switch example, leave the switch's PTP clock settings alone.

3 Prioritize clock and audio

Configuration > QoS > Port Classification: select DSCP Based on the ports carrying this traffic. Under DSCP-Based QoS, select Trust for the values below and assign their classes. Save each page. For the default profile, assign clock 46 to class 7 and audio 34 to class 6. In QoS > Port Scheduler, verify Strict Priority.

4 Direct multicast to the receiver

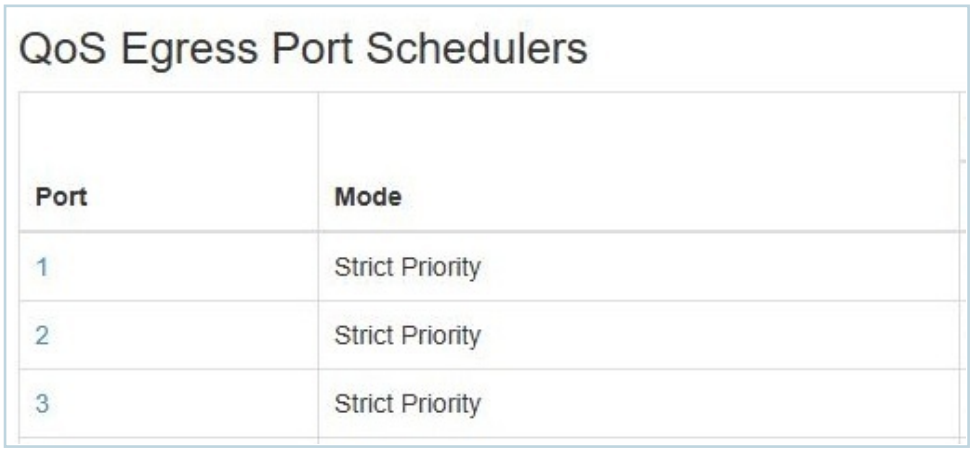
Under Configuration > IPMC > IGMP Snooping > Basic Configuration, enable Snooping and save. Keep Fast Leave clear. Under VLAN Configuration, enable Snooping and Querier Election on VLAN 1. Save. The querier checks which receivers still want each stream.

Reading the QoS settings

DSCP is a number the sender puts on a packet. The switch reads it and assigns a traffic class. When packets compete for the same outgoing link, the scheduler serves the highest strict-priority class first.

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Save and test



QoS Egress Port Schedulers

Port	Mode
1	Strict Priority
2	Strict Priority
3	Strict Priority

Check the scheduler after assigning packet markings to traffic classes.

Save the settings

Click Save on each page you changed. Open Maintenance > Configuration > Save startup-config. Click Save Configuration and wait for “startup-config saved successfully.” Reopen the changed page and check the values.

Test with the equipment

Confirm the receiver is locked to the intended PTP clock. Subscribe to the sender’s stream in the receiver software, play a known signal and check the receiver’s audio meter or output.

When the installation differs

If the endpoints show different packet markings, use their active clock and audio values in the switch. If another device already queries this VLAN, retain that elected querier.

References

Niveo NRS user manual
DirectOut AES67 setup
Merging endpoint profiles