NDI

Switch setup

Typical installation

One wired NDI source sends a unicast stream to one receiver on the same gigabit switch.

1 Connect the source and receiver

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. Place both devices on the same IP subnet so the receiver can discover the source.

2 Check capacity at the working format

In Configuration > Ports, check that each media link runs at 1 Gb/s full duplex or faster. Keep standard frames. Allow capacity for each simultaneous unicast receiver, particularly on the source link.

3 Start with unicast

Select the source in the receiving application. Leave the switch's multicast and QoS settings at their current defaults for this dedicated example. NDI 5 defaults to Reliable UDP. Change Ethernet flow control only when the equipment's setup guide calls for it.

How to estimate the load

A source sending a 100 Mb/s unicast stream to three receivers sends about 300 Mb/s in total, before overhead. Use the actual stream rate for your equipment.

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Save and test



Select Save Configuration after changing switch settings.

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

Open NDI Studio Monitor or the intended receiver and select the source. Play moving video with sound at the intended resolution and frame rate. Add the planned receivers one at a time. Watch for freezes and increasing port errors or drops.

When the installation differs

Deliberately using multicast? Enable multicast on the sender, then configure the switch. 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. Keep discovery available. If a querier already operates on the VLAN, retain it.

References

Niveo NRS user manual
NDI transports