VIDEO COMPANION / NRS8T2P

RAVENNA switch configuration

Use this single-switch example for multicast RAVENNA audio. Verify PTPv2 profile and domain, RTP parameters and the discovery or session-description workflow.

Configure the media path

1. In Configuration > Ports, verify full-duplex link rates and use the Ethernet frame size specified for the endpoints. Disable EEE where specified for the real-time audio links. Leave flow control as designed unless the endpoint documentation requires a change.
2. In Configuration > QoS > Port Classification, enable DSCP-based classification on trusted media paths where needed. Example profile: PTPv2 marked 46 is above RTP media marked 34. Verify the marks on the actual endpoints. Avoid rewriting or clearing other traffic classes on a shared switch.
3. For multicast, enable global and per-VLAN snooping, verify the active querier and configure its source on the intended VLAN where supported. Select the version required by the installed devices. Leave Fast Leave off unless a single-host use has been validated. Preserve discovery without blanket static multicast router ports.

Confirm timing and save

- Verify clock lock and stream reception. Use a boundary or transparent clock only if the approved timing design requires it. Check packet loss and queue drops at expected load. Save running to startup and verify the retained configuration.

Use the accompanying video for navigation. Follow the settings in this revised guide where the recording differs.

References

Niveo NRS managed-switch manual, rev. 3.1
RAVENNA technical resources
Audio Engineering Society, AES67
IETF RFC 4541, IGMP and MLD snooping considerations

Documentation review. Validate with the exact firmware and endpoints before deployment.