VIDEO COMPANION / NRS8T2P

Q-SYS switch configuration

This walkthrough uses native Q-LAN on a single managed switch. Verify the Q-SYS Designer QoS preset before configuring the network.

Configure ports and QoS

1. Verify gigabit-or-faster links for real-time Q-LAN and confirm queue and buffer requirements. Disable EEE as documented. Use the frame size and flow-control policy required by the applicable Q-SYS deployment.
2. In Configuration > QoS > Port Classification, enable DSCP-based classification on trusted Q-SYS paths. In DSCP-Based QoS, map 46 (PTPv2), 34 (audio), and 26 (video) in descending order for the Q-LAN preset. Use strict-priority scheduling as specified by Q-SYS. Validate the queues rather than assuming class numbers are portable.
3. Preserve ordinary PTPv2 forwarding. For multicast media, enable global and per-VLAN snooping, use the Q-SYS profile's IGMP version and verify one active querier with the intended source. Keep Fast Leave off on shared receiver paths.

Commission and save

- Save settings and startup configuration. Confirm the expected Q-SYS Designer bandwidth, discovery, clock lock, audio and video. Verify port and queue counters under realistic load. Apply the separate Audinate preset only if the project requires it.

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

Q-SYS Networking Requirements

IETF RFC 4541, IGMP and MLD snooping considerations

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