VIDEO COMPANION / NRS8T2P

Generic video-over-IP switch configuration

This example is for a single multicast media VLAN. Confirm codec, bitrate, discovery and the supported frame size from the encoder and decoder documentation.

Configure ports and multicast

1. In Configuration > Ports, verify speed and duplex. Set Maximum Frame Size to the endpoint requirement on the complete path, allowing for VLAN tags where applicable. The 9,600-byte switch value in the recording is a project example, separate from IP MTU. Leave flow control at the approved setting.
2. In Configuration > IPMC > IGMP Snooping, enable snooping globally and in the media VLAN. Configure or identify one active querier and its source. Check the IGMP version and the group table. Keep proxy and static mrouter settings at the approved design values.
3. Use Fast Leave only if required and tested for a single receiver on that port. Keep it off on uplinks, downstream switches and any shared receiver path.

Save and validate

- Save settings and save running to startup. Verify controller discovery, video, group membership and stable viewing when other receivers leave the group. Check peak traffic, frame errors and queue drops. Verify end-to-end frame size if using jumbo frames.

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

IETF RFC 4541, IGMP and MLD snooping considerations

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