VIDEO COMPANION / NRS8T2P

Dante Video switch configuration

Identify the exact Dante AV family and endpoint profile before sizing the network. Dante AV Ultra, AV-A and AV-H can have different rates and transport behavior.

Prepare the media path

1. Record peak bitrate, unicast or multicast mode, clocking and access link speed for the actual video devices. Example: a stream at 700 Mb/s consumes roughly 700 Mb/s on each traversed link before any omitted overhead. Two distinct streams at that rate cannot share a 1 Gb/s link in one direction.
2. Disable EEE on Dante-facing ports using Green Ethernet > Port Power Savings. Verify link rates and frame size. Preserve device discovery and clock traffic.
3. For multicast, enable global and per-VLAN IGMP snooping, identify the active querier, confirm the expected version and check discovery. Leave Fast Leave off on shared links. VLAN 1 in the recording is a lab example.
4. If applying the Audinate QoS profile, enable DSCP classification on trusted media ports and uplinks. Give DSCP 56 higher priority than 46, then 8 (reserved) and 0. Verify the actual endpoint markings, egress schedule and queue drops.

Commission

- Check the intended subscriptions, latency and clock state in Dante Controller. Run peak video and cross-switch traffic while monitoring port/queue drops. Save the running configuration to startup and verify persistence.

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

Audinate, Dante information for network administrators

Audinate, Dante AV Test Drive networking notes

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