SETUP GUIDE / KB19007

HD-over-IP on one managed switch

Use this workflow for a single switch serving a multicast HD-over-IP system. The older NGSM24T2 example is a menu reference. Confirm requirements for the actual switch and video equipment.

Set up and configure

1. Verify access link speeds, switch forwarding capacity, controller connectivity, cable and power budget. Back up the current configuration. An existing switch does not need a factory reset just to configure video.
2. Assign endpoint ports to the intended media VLAN. In the documented NGSM interface, enable snooping under Configuration > IPMC > IGMP Snooping > Basic Configuration. Enable snooping again for the media VLAN in VLAN Configuration.
3. If there is no upstream querier, configure the switch as the VLAN querier using an approved source address where supported. Confirm the endpoint-required IGMP version. Set Fast Leave only if required for a port with a single receiver, and verify that disabling unknown multicast does not break discovery.

Validate and save

- Test each source with at least one receiver, then test simultaneous subscriptions and source changes. Verify the group table and check errors and output drops. Save the running configuration to startup and document the final state.

References

Niveo NGSME8H/16/24 managed-switch manual

IETF RFC 4541, IGMP and MLD snooping considerations

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