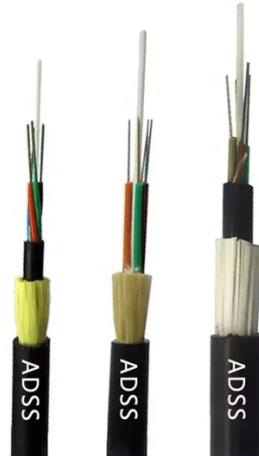


Modify the port mode of the fiber optic switch



AI Overview

Fiber optic switch ports can be configured in different modes such as F, E, TE, SD, or NP, depending on the connected device and network topology, using CLI commands or administrative interfaces.

Understanding Port Modes

- F Port (Fabric Port):** Connects directly to a host or storage device (N_Port).
- E Port (Expansion Port):** Connects to another switch to form an Inter-Switch Link (ISL) for fabric expansion.
- TE Port (Trunk Expansion):** Used in certain Cisco switches for inter-switch connections with specific features.
- SD Port (SPAN Destination):** Used for monitoring traffic; it does not forward frames but receives copies from source ports.
- NP Port (N_Port Proxy):** Used in NPV (N_Port Virtualization) mode to connect to an F_Port on another switch.

Ports can also operate in Auto mode, where the switch determines the appropriate mode during initialization based on the connected device.

Steps to Change Port Mode on a Cisco Switch

- Access the Switch CLI:** Connect via console or SSH using a terminal client like PuTTY.
- Enter Configuration Mode:** `enable`
- Configure terminal:** `configure terminal`
- Select the Interface:** `interface fc1/1` Replace fc1/1 with the actual port identifier.
- Set the Port Mode:** `switchport mode f` Replace f with the desired mode (e, te, sd, or np for NPV mode).
- Verify the Configuration:** `show interface fc1/1` Check the administrative and operational states to ensure the port is in the correct mode.
- Save the Configuration:** `copy running-config startup-config`

Considerations

- Operational vs Administrative State:** The administrative state is the configured mode, while the operational state reflects the actual mode after initialization and link negotiation.
- Compatibility:** Ensure the connected device supports the selected port mode to avoid link errors or mismatches.
- SPAN Ports:** SD ports are manually configured and cannot be auto-detected. They are used only for...

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Installation Guide

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Each physical Fibre Channel interface in a switch may operate in one of several port modes: E mode, TE mode, F mode, and SD mode (see the figure below). A physical Fibre Channel interface can be

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I have a 1920-48G switch that a block of ports has stopped working; I checked through the cmdline that the port is like optic fiber, where it should be twisted pair.

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EOS 4.36.1F

While full-duplex links in switches are the typical implementation, the specification permits half-duplex links connected through hubs. Gigabit Ethernet physical layer standards that Arista switches support

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