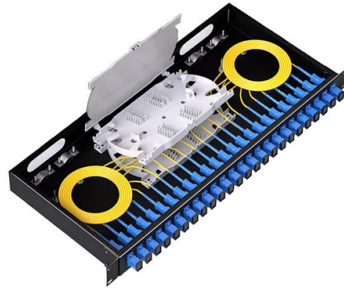


RIVO MULTITRADE OPTICAL SYSTEMS

The new access switch will re-establish network connectivity



Overview

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Key Takeaways

Adding a properly configured access switch can restore network connectivity by ensuring VLANs, trunking, and VTP settings are correctly aligned with the existing network.

Key Considerations



When introducing a new access switch to a network, several factors must be addressed to ensure connectivity is restored: VLAN and VTP Configuration A new switch may have a higher VTP configuration revision number than the existing network, which can overwrite VLAN settings on other switches and cause connectivity loss . To prevent this, verify the VTP mode and configuration before connecting the switch. Setting the switch to VTP transparent mode allows manual VLAN configuration without affecting other switches . Port Configuration To establish Layer 2 connectivity, access ports must be assigned to the correct VLAN, and trunk ports must allow the necessary VLANs to pass between switches . For example, configuring a port as switchport mode access and assigning it to the appropriate VLAN ensures devices connected to the new switch can communicate with existing hosts. Physical and Logical Connectivity Ensure the new switch is physically connected to the network and that trunk links are properly configured. Switches operate at Layer 2, forwarding frames based on MAC addresses, so proper trunking and VLAN membership are essential for seamless communication . Troubleshooting Steps If connectivity is not immediately restored, check the following:

- Verify the switch is powered on and receiving an IP address if required for management .
 - Confirm trunk ports are configured correctly and allow the necessary VLANs .
 - If VLANs are missing or ports are inactive, manually configure VLANs and reload the switch if necessary .
 - For cloud-managed switches, ensure upstream firewalls or NAT devices are not blocking TCP connections required for management or mesh functionality .
- Best Practices
- Always check the VTP configuration and revision number before connecting a switch to a production network .
 - Use consistent VLAN and trunk configurations across all switches to prevent accidental network outages .
 - Document port assignments and VLAN mappings to simplify troubleshooting and future expansions. By following these steps, the new access switch can successfully re-establish network connectivity, allowing devices on the network to communicate effectively.

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