

RIVO MULTITRADE OPTICAL SYSTEMS

The aggregation switch keeps disconnecting



Overview

Switch Goes Offline When Aggregation is Turned On I turned on aggregation on both (1+2 on the USW Pro Aggregation and 51+52 on the USW Pro 48 PoE). Connect.

Key Takeaways

An aggregation switch may disconnect if there is a hardware failure, power loss, or misconfiguration, but redundancy and link aggregation protocols typically prevent total network disruption. Understanding Aggregation Switch Connectivity

An aggregation switch consolidates traffic from multiple access switches or edge devices and forwards it to core switches, acting as a central point in the network . Because it handles high volumes of traffic, a failure in the aggregation switch can disrupt connectivity for all connected devices . However, modern aggregation switches are designed with redundancy in mind.

Redundancy and Failover

Most aggregation switches support link aggregation (also called port trunking), which combines multiple physical links into a single logical connection. This setup provides redundancy, so if one link fails, traffic automatically reroutes over the remaining operational links, preventing a complete disconnection . Additionally, many switches have dual power supplies, allowing the switch to continue operating if one power source fails .

Factors That Can Cause Disconnection

Despite redundancy, disconnections can occur due to:

- Hardware failure: A malfunctioning switch or port can interrupt traffic.
- Power issues: If both power supplies fail or are improperly configured, the switch may go offline .
- Configuration errors: Misconfigured VLANs, spanning tree loops, or incorrect link aggregation settings can cause temporary or persistent disconnections .
- Network congestion or overload: Extremely high traffic beyond the switch's capacity may lead to packet loss or temporary connectivity issues .

Best Practices to Minimize Disconnection

- Implement redundant aggregation switches in critical networks.
 - Use link aggregation protocols like LACP to combine multiple uplinks.
 - Ensure dual power supplies are installed and tested.
 - Regularly monitor switch health and network traffic to detect potential issues early .
- In summary, while an aggregation switch can disconnect under certain conditions, proper redundancy, link aggregation, and power management significantly reduce the risk of total network downtime.

Article Content

Switch Goes Offline When Aggregation is Turned On

I turned on aggregation on both (1+2 on the USW Pro Aggregation and 51+52 on the USW Pro 48 PoE). Connected only ONE fiber

Aggregation of Ports doesn't work AND breaks the controller UI?

Unplug one of your cables to the switch, create your aggregation, configure your endpoint, reconnect 2nd cable. If you do 3-5 it will

Contact Us

Continue your research online:

Website: <https://rivomultitrade.co.za>

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

