

The aggregation switch is a Layer 3 switch



Overview

An aggregation switch operates at Layer 2 or Layer 3 of the OSI model, depending on the configuration and topology of the network. The controller uses protocols, such as Link Aggregation Control Protocol (LACP) or Static Link Aggregation, to combine physical links into a single. The three layers of a traditional three-layer network design are the core layer, aggregation layer, and access layer. Together, these layers can offer consumers a network that is safe, reliable, and affordable. As the physical entity of the aggregation layer, the aggregation switch's primary function is to aggregate the data of the access layer switch and forward it to the core switch to. An aggregate switch is a high-capacity network switch that consolidates connections from multiple access switches, acting as a central point for managing network traffic and providing enhanced bandwidth capabilities.

Article Content

Everything You Need to Know About Aggregation Switch

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6 New Layer 3 Aggregation & Core Switches Powered By SONiC

Asterfusion introduced five Layer 3 aggregation and core switches powered by their cutting-edge SONiC-based Enterprise operating system in 2025. These aggregation switches ...

Aggregation Network Switches | Grandstream Networks

Layer 3 aggregation switches that allow enterprises to build scalable, secure, high performance and smart business networks that are fully manageable and support maximum capacity.

How to Choose Best Aggregation Switch?

An aggregation switch, also known as a distribution layer switch, it performs as both layer 3 and layer 2 devices in the network architecture, enabling ...

Link Aggregation Control Protocol

This aggregation increases overall bandwidth and improves network reliability by allowing traffic to be shared across various links, while presenting a single connection to the network.

What Is an Aggregation Switch and How to Choose?

These aggregation switches typically operate at Layer 2 or Layer 3 of the OSI model, depending on the network topology and configuration requirements.

Aggregation Switch | D-Link

Provides advanced Security ACLs for improved security, traffic control, and QoS, ensuring efficient and optimized networking.

What is Switch Aggregation, Its Role and Selection Advice

Switch aggregation refers to the concept of consolidating multiple access layer switches into a single aggregation layer switch in a traditional three-tier network design.

Link Aggregation: Static vs Dynamic, LACP, and MLAG Configuration

This article provides a comprehensive explanation of link aggregation — covering LACP, static vs dynamic link aggregation, and MLAG (Link Aggregation Plus) — along with real ...

What is an Aggregate Switch?

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