

Aggregation switches have dynamic routers



Article Overview

Aggregation switches typically focus on high-bandwidth switching and may support dynamic routing, but full routing capabilities are usually provided by aggregation routers or edge devices.

Role of Aggregation Switches

Aggregation switches are designed to interconnect multiple access switches and consolidate traffic from various network segments. They often support link aggregation (LACP/802.3ad) to combine multiple physical ports into a single logical link, providing higher bandwidth, redundancy, and load balancing between switches or servers. These switches can handle large volumes of traffic efficiently and may include Layer 3 features, such as static or dynamic routing, depending on the model and vendor.

Dynamic Routing Capabilities

While some aggregation switches include Layer 3 routing features, including support for dynamic routing protocols like OSPF, EIGRP, or BGP, not all aggregation switches are full-featured routers. In enterprise networks, dynamic routing is often handled by aggregation routers or edge platforms, which consolidate traffic from multiple switches and provide advanced routing, security, and WAN connectivity. Aggregation routers can also support SD-WAN, multicloud connectivity, and hardware-accelerated data planes for optimal performance....

Article Content

Dec 29, 2025

Aggregation Router

An "Aggregation Router" is a device located in the services aggregation layer of a data center LAN that integrates important network

Mar 08, 2026

Port Aggregation FAQs

LACP (Link Aggregation Control Protocol): LACP is an industry-standard protocol (802.3ad) that dynamically manages link

Jan 23, 2026

What is Switch Aggregation, Its Role and Selection Advice

This article wraps up "what is switch aggregation" and suggestions for choosing an aggregation switch. By

Nov 24, 2025

What is an Aggregation Switch? | Features and Practical Benefits

Conclusion: What is an aggregation switch? In network architecture, they are now extremely important. The

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Configuring Link Aggregation Group and Link Aggregation Control

In addition, the IEEE 802.3ad Link Bundling feature provides a capability to dynamically provision, manage, and monitor various

Jan 27, 2026

Port Aggregation FAQs

Port aggregation can increase maximum throughput, and allow for network redundancy. It does this by splitting traffic across multiple

Oct 12, 2025

INTELLIGENT AGGREGATION

Furthermore, all of the smart aggregation (commodity Ethernet) switches would have the same hard state (configuration et.al)⁸ The

Dec 15, 2025

Link aggregation

Link aggregation Link aggregation between a switch and a server In computer networking, link aggregation is the combining

Jun 09, 2026

What is Link Aggregation (LAG) in Networking?

Conclusion Link Aggregation Groups in Cisco environments are a critical component in designing efficient,

Aug 11, 2025

Link Aggregation and Load Balancing

Configuring link aggregation between MS and Cisco Switches You may want to set up and configure a bonded link

Nov 07, 2025

What Are Aggregation Service Routers (ASR)?

Aggregated services routers (ASR) are used for edge routing. They combine traffic to increase speed, security, and access for

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What Is an Aggregation Switch and How to Choose?

An aggregation switch is a network device that consolidates traffic from multiple access switches, wireless access

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INTELLIGENT AGGREGATION

The mitigation is that these switches will look and behave just as another Ethernet switch, at least from the view of the routers

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Understanding Switch Stacking and Link Aggregation

Learn more about how switch stacking and link aggregation serve different purposes, but they are often used together to build

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What Are Link Aggregation, LAG, and LACP?

It allows two switches to negotiate which ports are active and manage link status dynamically. LACP also provides

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Everything You Need to Know About Aggregation Switch

The primary function of an aggregation switch is to aggregate and forward data from multiple network devices, such as

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Link Aggregation and Ethernet Bonding Feature Overview and ...

Link aggregation interfaces have names like "po1" and "sa1" depending on the aggregation method in use. Ethernet bonding is used to

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Dynamic vs Static Link Aggregation: Differences & Use Cases

Learn the key differences between static and dynamic link aggregation (LACP). Compare Cisco EtherChannel and

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Enhance Your Network with a Link Aggregation Switch: Benefits ...

Discover the benefits, configuration, and best practices of using a link aggregation switch to enhance your network.

Sep 02, 2025

Aggregation Layer

The aggregation layer connects to core routers, which definitely have Layer 3 (network) routing and are sometimes called core

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What Are Aggregation Service Routers (ASR)?

What are aggregation services routers (ASR)? Aggregation services in routers and edge platforms help enable network edge routing.

Jun 28, 2026

Aggregation switches and routers

The expected growth of gigabit and multigigabit services requires operators to architect network access scalability upfront. For this

Jan 10, 2026

Aggregation Switch

An aggregation switch refers to a type of switch used to connect multiple ToR switches to a core switch/router in a cloud data center

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