

Huawei Switch Core and Branch Communication



Article Overview

Huawei core and branch switches communicate through a combination of Layer 2 and Layer 3 networking, VLANs, DHCP, and VPNs to ensure seamless connectivity between headquarters and branch offices.

Core Switch Functions

Huawei core switches, such as the S7700, S9700, and CloudEngine series, act as the central gateway for both wired and wireless users in a campus network. They handle high-volume data forwarding, implement high network reliability, and manage wireless access points (APs) through the native AC function, enabling wired and wireless convergence. Core switches also provide DHCP services, assigning IP addresses to devices across the network, and support Layer 2 and Layer 3 communication for efficient routing between VLANs and subnets.

Branch Switch Integration

Branch switches, often part of the S series (e.g., S5700, S6700), connect to the core switches via uplinks using Eth-Trunk or stacked interfaces to increase bandwidth and provide redundancy. Branch switches can implement device-level backup and link aggregation to ensure high availability. They also support VLAN segmentation to separate traffic types and maintain secure communication with the headquarters.

Inter-Branch and HQ Communication...

Article Content

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Multi-Campus/Branch Interconnection Networking Solution Design

The CloudCampus Solution supports various types of devices and networking modes for interconnection between multiple campuses or branches. For ease of understanding, each campus or branch is

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Branch Network Deployment

For details, see Headquarters Network Deployment. This section describes the branch network deployment for interconnection between branches and the HQ/DC, excluding the complete service

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All Products and Solutions

Directory of Huawei enterprise IT infrastructure products, solutions, and services.

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Layer 2 vs Layer 3 Huawei Switches Deep Dive: Internal ASIC

Core Architecture & Switching Logic: ASIC, CPU, and the Forwarding Pipeline The fundamental difference between Layer 2 and Layer 3 switching in Huawei equipment lies within ...

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Multi-Campus/Branch Interconnection Networking Solution Design

Multi-Campus/Branch Interconnection Networking Solution Design Guide In large-scale networking with branch chains or branch offices, branch networks need to access the Internet, HQ, DCs, or other

May 17, 2026

CloudEngine S16700 Series Switches

CloudEngine S16700 series switches are flagship core switches with record-high performance designed for high-quality 10 Gbps campus networks. This series stands out for ultra-fast forwarding capability

Oct 06, 2025

Huawei Switches: Comprehensive Guide And Insights

Huawei switches provide a robust, scalable, and cost-efficient solution for modern networking needs. Whether you're operating a small business, managing a large enterprise, or deploying a data center,

Feb 20, 2026

Branch Network Deployment

Branch Network Deployment Context The IPsec VPN Interconnection Solution applies to small- and medium-sized campus networks that have lightweight configurations and deploy APs, AR routers,

Aug 11, 2025

High-Quality Financial Branch Campus Network Solution

Huawei High-Quality Financial Branch Campus Network Solution stands out for extensive connectivity, premium quality, hyper-convergence, and intelligent

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9 Query Commands for Huawei Switches

In the modern network environment, switches, as the core equipment of the network, are responsible for key tasks such as data forwarding, traffic management, and network security. In order

Nov 06, 2025

Intelligent SD-WAN Branch Interconnection

This trend has caused the Wide Area Network (WAN) traffic of enterprise branches to surge, overwhelming traditional WANs that mainly rely on Multiprotocol Label Switching (MPLS) private

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Inter-VLAN Communication

Similar to intra-VLAN communication described in Intra-VLAN Communication, inter-VLAN communication goes through three phases: packet transmission from the source host, Ethernet

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Deploying SD-WAN Routers and Services

If a legacy site needs to communicate with an SD-WAN site, configure routing protocols on the HQ core switches (or Layer 3 devices such as firewalls) so that the core switches can advertise the routes

Jun 21, 2026

Huawei CloudEngine 6850 Series Configuration Manual

View and Download Huawei CloudEngine 6850 Series configuration manual online. for Dell EMC SC Series SANs. CloudEngine 6850 Series switch pdf manual

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Deploying IPsec on Egress Routers for Communication Between the ...

The headquarters and branch need to securely communicate through VPNs over the Internet. In this example, every two of four aggregation switches set up a stack (a total of two stacks) and connect to

Apr 18, 2026

Example for Configuring Egress Devices on Small

In this article, HongTelecom will introduce the Example for Configuring Egress Devices on Small- and Medium-Sized Campus or Branch Networks for Huawei S7700/S9700 Switch.

Aug 10, 2025

Core, Aggregation, or Access Switches? Choose the

Discover the crucial differences between core, aggregation, and access switches. Find out which type can best transform your network's

Apr 09, 2026

Huawei switch to Cisco Communication in WIFI Network

The huawei core switch is connected to two cisco 2960 switches. Both cisco switches are on VTP transparent mode. All switches (huawei and cisco) have Vlan 1 and 405 and their

Apr 01, 2026

Huawei Core Switch: Das schlagende Herz des Netzwerks? Kann ...

Jedes Unternehmensnetzwerk hat einen stillen Diktator – den Huawei Core Switch. Versteckt in Serverräumen oder Rechenzentren regelt dieses unscheinbare Gerät den Datenverkehr ...

May 27, 2026

Native AC Solution: Core Switches Function as the Gateway for Wired

Aggregation switches set up stacks to implement device-level backup and increase the interface density and forwarding bandwidth. In this example, a CSS of core switches functions as the gateway for

Mar 22, 2026

Huawei Core Switch: Network's Beating Heart? Can Centralized

Every enterprise network has a silent dictator—the Huawei core switch. Buried in server rooms or data centers, this unassuming device governs traffic flow between departments, ...

Mar 01, 2026

CloudEngine Series Data Center Switches

Huawei CloudEngine series switches are high-performance cloud switches designed for next-generation data centers and high-end campus networks. The series includes Huawei's flagship

Contact Us

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