

Interoperability of Huawei's three core switches



AI Overview

Huawei's core switches, including the S8700, S7700, and CE12800 series, are highly interoperable with each other, Huawei aggregation/access switches, and mainstream Cisco devices through standard protocols and Huawei-specific enhancements. Huawei-to-Huawei Interoperability Huawei core switches such as the S8700, S7700, and CE12800 can interoperate seamlessly within a campus or data center network. Key features include:

- Clustering and Stacking:** S8700 and S7700 switches support clustering to provide high availability and simplified management. CE12800 supports modular configurations with high-density ports and can integrate with CE8800/7800/6800 series aggregation switches for a unified CloudFabric solution.
- Layer 2 and Layer 3 Protocols:** MSTP, VBST, and FlexLink provide loop prevention and fast switchover. Huawei MSTP can interoperate with Cisco PVST+ by exchanging region digests and ensuring VLAN-to-instance mapping consistency.
- Redundancy and Convergence:** VRRP on Huawei switches can replace HSRP, achieving faster convergence (within 50 ms) compared to Cisco implementations. FlexLink provides Layer 2 switchover with sub-100 ms convergence.
- Huawei-to-Cisco Interoperability:** Huawei core switches are designed to interoperate with Cisco devices using standard protocols:
 - Link Aggregation:** Huawei LACP can interoperate with Cisco LACP for port channel configurations.
 - Discovery Protocols:** Huawei LLDP can exchange information with Cisco CDP, enabling device discovery and topology mapping.
 - Routing Protocols:** Huawei OSPF and IS-IS are fully compatible with Cisco OSPF, allowing seamless Layer 3 integration.
 - Spanning Tree:** VBST on Huawei switches can interoperate with Cisco Rapid PVST+, maintaining loop-free Layer 2 topologies.
 - Authentication and Access Control:** Huawei S series switches support 80...

Article Content

Huawei S6700 Series Switches Product Brochure

As shown in the following figure, the S9700 Terabit routing switches function as core switches in a data center and use firewall and load balancer boards to ensure security and load balancing.

Guide for Replacement and Interoperation Between Huawei Switches

This document provides typical configuration examples for interoperation between Huawei switches and mainstream IP phones, firewalls, routers, Microsoft NLB servers, multi-NIC servers, Cisco switches,

Huawei and Cisco Switches Interoperation V2.5

The document discusses Huawei switches' interoperability with Cisco switches. Huawei switches can interoperate with Cisco switches on forwarding, control, and management planes by complying with

Huawei CloudEngine Series Switches

The CE1800V can be combined with Huawei CloudEngine hardware switches and Huawei Agile Controller to offer a Software-Defined Networking (SDN) solution for data centers based on hybrid or

Interoperability and Replacement Capability Overview

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Guide for Replacement and Interoperation Between Huawei Switches

S12700 Series Agile Switches Interoperation Configuration Guide (V200) This document provides typical configuration examples for interoperation between Huawei switches and mainstream IP phones,

Dell+Huawei Core switch Connectivity | DELL

Hi, I have 2 Core Switches, (1 Dell EMC N3024EF-ON and 1 Huawei S5735-S32ST4X.) and 4 Access Switches (Dell N1548P). I have shared the

Protocol Interoperability

Interoperability Protocol Interoperability The Huawei Campus Switches and WLAN products comply with mainstream standard protocols in the industry. Third-party network devices that follow general

Huawei S12700 Series Switches Product Datasheet

HUAWEI S12700 series agile switches (S12700 for short) are designed for next-generation campus networks. Using a fully programmable switching architecture, the S12700 allows fast, flexible function

Huawei three-layer switch analog interoperability (all ports are access ...

After the configuration is complete, 10.86.3.50 can ping any networked IP that resides on the device. LSW4 configuration: # sysname Huawei

Huawei S5330-HI Series Switches Product Brochure

Huawei S5330-HI Series Switches Product Huawei S5330-HI gigabit ethernet switches are Huawei-developed next-generation agile switches that provide fixed full gigabit access and 10GE uplink

Choose the Right Enterprise Switch in 2026: A

Confused about enterprise switch selection? This technical buyer's guide explains Layer 3, PoE, buffer, latency, and throughput for Huawei, Ruijie &

Interoperability and Replacement Capability Overview

S12700 Series Agile Switches Interoperation Configuration Guide (V200) This document provides typical configuration examples for interoperation between Huawei switches and mainstream IP phones,

Interoperability and Replacement Capability Overview

S2700, S3700, S5700, S6700, S7700, and S9700 Series Switches Interoperation Configuration Guide (V200) This document provides typical configuration examples for interoperation between Huawei

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

Traditional core switches fail catastrophically—one power supply dies, and the whole network flatlines. The Huawei core switch employs N+1 power redundancy and hot-swappable ...

H uawei CloudEng ine S12700E Series Switches

High port density: Innovative cell switching technology is designed with a dynamic load balancing algorithm to ensure non-blocking switching in high-concurrency and full-load operating environments.

Switches

Switches After more than 20 years of unremitting efforts and stable development, Huawei provides extensive experience in Ethernet switches. With multiple industry-leading intellectual properties and

Cross-Platform Network Mastery: Unifying Switch Configurations for ...

Introduction: The Universal Language of Network Engineering
In a world where enterprises operate multi-vendor network environments, the ability to navigate diverse switch configurations is no longer

Network Switches | Huawei Enterprise

Huawei Ethernet Switches Turbocharge your enterprise network with high-performance, high-availability for resilient services and simplified management.

Tolly Report 223148 for Huawei Technologies, Co. Ltd

Tolly engineers verified the interoperability of the Huawei CloudCampus solution with Cisco Identity Services Engine (ISE) v3.2 network access control (NAC) solution across a wide range of function

Tolly216161TechnicalReport-Huawei-CiscoISE-InteroperabilityCertifica

Huawei commissioned Tolly to verify the Huawei S series switches' interoperability with the Cisco Identity Services Engine (ISE) for authentication and more. The complete list of devices tested is

Interoperability Between Huawei Switches and Third-Party

S12700 Series Agile Switches Interoperation Configuration Guide (V200) This document provides typical configuration examples for interoperation between Huawei switches and mainstream IP phones,

S7700 Series Switches

Huawei S7700 series switches are smart routing switches with unified user management for campus networks. They support SDN and intelligent O& M. Learn more.

Standalone AC Solution: Core Switches Function as the Gateway for

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

Contact Us

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