Miercom

Lab Testing Summary Report

March 2012

Report SR120125

Product Category:

Enterprise Switch

Vendor Tested:

HUAWEI

Product Tested:

S5700-EI Series Switches

Miercom PERFORMANCE VERIFIED ™

This is an excerpt, full report available at miercom.com/huawei
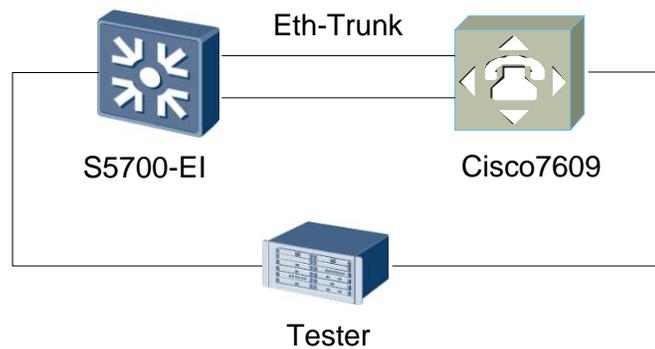
Key findings and conclusions:

- **Huawei S5700-52C-PWR-EI enterprise switch has IPv6 migration support that includes dual-stack and IPv6 to IPv4 tunneling for increased flexibility**

- **Supports PoE+, supplying 30W of power to endpoint devices from multiple vendors**

- **Interoperable with many proprietary protocols used by multiple vendors**

- **Clustering supports 48Gbps throughput and nine devices in a single cluster**

- **Batch updating allows software upgrades en masse to switches**

Huawei Technologies engaged Miercom to conduct an independent evaluation of the S5700-EI series Gigabit enterprise switches. The S5700-52C-PWR-EI features forty-eight 10/100/1000 Base-T ports, redundant hot-swappable power supplies, and supports GE and 10GE cards for use in data center or campus environments. We examined this switch for its forwarding performance, advanced features, interoperability, resilient architecture, and energy efficiency.

Some of the advanced features include high level fault detection and convergence, explained in the following sections in detail. A unique feature to this system is the Batch Update, which can push updates to switches en masse with feedback using a graphical user interface.

Batch Update was shown to operate seamlessly and easily. The software is a GUI that is straightforward and cleanly designed. Inputting firmware files and uploading to switches with feedback is possible from any machine with the software installed.

Figure 1: Huawei S5700-52C-PWR-EI Enterprise Switch LACP Interoperability Test Bed

Source: Miercom, March 2012

A simple test bed was constructed of one Huawei switch and one Cisco switch to demonstrate full interoperability between the two vendors.

Miercom Performance Verified

The performance of Huawei S5700-52C-PWR-EI enterprise-class switch was verified by Miercom. In hands-on testing, Huawei demonstrated advanced performance features such as:

- Provides PoE+ to endpoint devices from multiple vendors

- Interoperability of high complexity systems, multiple vendors products and proprietary protocols

- IPv6 and IPv4 interchangeable tunneling for increased deployment flexibility

- iStack achieved 48Gbps throughput as well as nine devices in a single cluster

**S5700-52C-PWR-EI
Switch**

Huawei Technologies, Co., Ltd.
http://www.huawei.com/enterprise

About Miercom's Product Testing Services

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Miercom's private test services include competitive product analyses, as well as individual product evaluations. Miercom features comprehensive certification and test programs including: Certified Interoperable, Certified Reliable, Certified Secure and Certified Green. Products may also be evaluated under the NetWORKS As Advertised program, the industry's most thorough and trusted assessment for product usability and performance.

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