Miercom

Lab Testing Summary Report

Product Category:

Enterprise Switch

Vendor Tested:

HUAWEI

Product Tested:

S7700 Series Switches
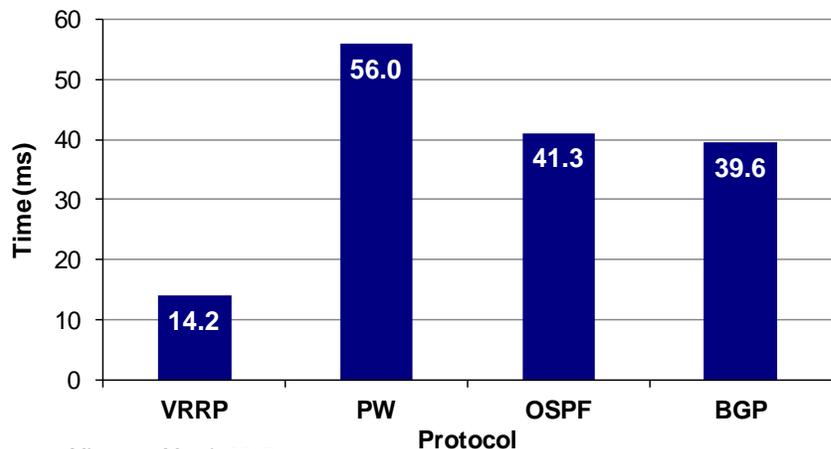
Miercom PERFORMANCE VERIFIED ™

Key findings and conclusions:

- **Huawei S7706 core aggregation switch has high availability providing resiliency for enterprise environments**

- **Smart Ethernet Protection (SEP) allows optional security enhancements**

- **Interoperable with switches from other manufacturers**

- **Hot swappable power and fan modules and backup routing units**

Huawei Technologies engaged Miercom to evaluate the S7700 series of high-end smart routing enterprise switches. The S7700 series includes the S7703, S7706, and S7712 models. For this report, the S7706 switch was tested. The S7700 is an extensible and reliable platform integrating switching and routing functions to facilitate end-to-end integrated networks. Use case scenarios include WANs, MANs, campus networks, and data centers to help enterprises build application-oriented networks.

The features in this model are supported on the other switches in the S7700 series making the results applicable for the entire series. The S7700 series of switches provide high performance Layer 2 through 4 switching, and is highly redundant to meet high availability requirements. The S7700 series of switches have a dedicated daughter card for fault detection.

Figure 1: Huawei S7706 Enterprise Switch
Bidirectional Forwarding Detection Convergence Time

Source: Miercom, March 2012

Failover convergence times with various protocols. Network resiliency is improved with lower times. See discussion on page 2.

Miercom Performance Verified

The performance of Huawei S7706 enterprise-class switch was verified by Miercom. In hands-on testing, Huawei demonstrated advanced performance features such as:

- Redundant system allows device to maintain high availability

- Smart Ethernet Protection (SEP) provides excellent Ethernet ring solution with convergence time within 20ms, far lower than convergence time of xSTP ring

- Interoperable with Cisco and other switches for mixed vendor networks

- Hot swappable power and fan modules can be replaced without network disruptions

S7706 Switch

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

About Miercom's Product Testing Services

Miercom has hundreds of product-comparison analyses published over the years in leading network trade periodicals including Network World, Business Communications Review, Tech Web - NoJitter, Communications News, xchange, Internet Telephony and other leading publications. Miercom's reputation as the leading, independent product test center is unquestioned.

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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