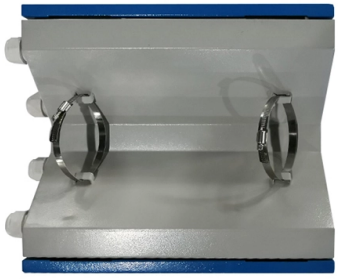
Smart SD-WAN Device Test Report



Overview

Reports provide a summarized view of the health and performance of the sites, devices, and tunnels in your network.

Key Takeaways

Smart SD-WAN devices are evaluated for management, security, performance, and application QoE, with detailed reporting available across multiple platforms. Overview of SD-WAN Device TestingSmart SD-WAN devices are assessed on several critical dimensions: Management and Deployment: Devices like Versa Secure SD-WAN excel in management capabilities, including Zero Touch Provisioning (ZTP) for rapid deployment across multiple branches, simplifying configuration and reducing operational overhead. Platforms such as Cisco SD-WAN Manager and Aruba EdgeConnect provide dashboards and reporting tools to monitor device health, site connectivity, and policy enforcement.

Routing and Policy Enforcement: SD-WAN devices enforce both simple and complex network policies, including secure site-to-site VPNs, direct internet access (DIA), and application-specific routing. This ensures reliable traffic flow and compliance with organizational policies. Stability and Reliability: Devices are tested under heavy traffic and adverse conditions.

Versa SD-WAN, for example, maintained session state and high operational stability even under stress, ensuring uninterrupted service. Silver Peak and Prisma SD-WAN provide real-time health maps and seven-day telemetry to track network performance and detect anomalies. Quality of Experience (QoE): Audio and video performance is measured using metrics like Mean Opinion Scores (MOS).

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High-performing SD-WAN devices maintain consistent QoE even with packet loss or latency, critical for VoIP and video conferencing. Performance Metrics: Throughput, latency, and application prioritization are key evaluation criteria. SD-WAN reporting engines, such as Prisma SD-WAN DVR, provide historical and real-time insights into utilization trends, hotspots, and traffic anomalies, enabling capacity planning and policy adjustments.

Security and Application Insights

Threat Assessment: Reports highlight potential security gaps at the WAN edge. Fortinet's SD-WAN assessment emphasizes monitoring external traffic, application usage, and maintaining a full security stack to prevent breaches. Application Steering: SD-WAN devices prioritize business-critical applications over non-essential traffic, optimizing bandwidth and reducing costs associated with MPLS backhauling.

Reporting Capabilities

Automated Reports: Cisco SD-WAN Manager allows generation of PDF or CSV reports for up to 100 instances, covering device health, tunnel status, and site performance. Reports can be scheduled or emailed to multiple recipients. Historical Data Access: Prisma SD-WAN provides up to 90 days of telemetry and reporting per device, enabling trend analysis and compliance monitoring.

Visualization Tools: Dashboards and health maps in platforms like Aruba EdgeConnect provide a 7-day view of network performance, highlighting underperforming sites, configuration issues, and potential outages.

Key Takeaways

Smart SD-WAN devices are evaluated for reliability, security, QoE, and operational efficiency. Comprehensive reporting tools across vendors allow IT teams to monitor performance, optimize traffic, enforce policies, and plan capacity effectively. Independent assessments, such as those by CyberRatings.org, confirm that high-performing SD-WAN solutions deliver consistent performance, secure routing, and excellent user experience across distributed networks.

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Article Content

Cisco Catalyst SD-WAN Monitor and Maintain Configuration Guide

Reports provide a summarized view of the health and performance of the sites, devices, and tunnels in your network. You can schedule a report, download it as a PDF document, and

Enhanced SD-WAN Report

This report leverages enhanced FortiGate SD-Wan logs to display SD-Wan utilization by different rules, links, applications a users as well as link SLA, performance and quality KPIs such as Latency,

CyberRatings 2024 SD-WAN Test Report

Versa Secure SD-WAN achieved a full “AAA” and the maximum achievable score for voice and video quality. Specifically: Management and Deployment: Excelled in management capabilities, notably

Secure SD-WAN Assessment Sample Report

Executive Summary We aggregated key findings from our Secure SD-WAN assessment within the Executive Summary below. While the highlights are listed below, a more detailed view of each

NSS Labs 2019 SD-WAN Test Report Oracle Talari

In Q1 2019 NSS Labs performed an independent test of the Oracle Talari SD-WAN E1000 v7.3. NSS has created three use cases to represent the most common reasons why enterprises deploy

Miercom: Cisco Security and SD-WAN Efficacy and Performance

The key objectives of this test review were to show the security and SD-WAN performance capabilities of Cisco Catalyst and Meraki WAN appliances in real-world scenarios.

Device Status Test

This test auto-discovers the components of the target Cisco SD-WAN appliance and for each component, reports the current status and uptime. Besides, this test also reveals whether/not each

Cisco Security and SD-WAN Efficacy and Performance Evaluation

Security efficacy testing with the latest phishing and polymorphic malicious URLs proved Cisco Meraki and Catalyst WAN appliances block 95 to 99% of these threats first exposure and 100% upon retest.

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SD WAN Performance and Latency Testing Tools

An example test case using the Aukua Network Impairment Emulator to emulate the network conditions of an SD-WAN deployment scenario for the purposes of evaluating real-world application

Smart SD-WAN Architecture and Node Requirements

With Smart SD-WAN backbone, MEF and vendor proprietary SD-WAN systems can be interconnected, providing more options to meet customer requirements. This document defines the

SD-WAN Test Drive | HPE Networking Orchestrator Docs

Describes the SD-WAN environment to get users familiar with the EdgeConnect platform and Orchestrator management interface.

Cisco Catalyst SD-WAN Monitor and Maintain Configuration Guide

Cisco SD-WAN Manager generates a topology diagram for each site featuring the Cisco IOS XE Catalyst SD-WAN device s that are deployed in a configuration group. For more information on

Cisco Catalyst SD-WAN Manager API, Release 26.1

Introduction - Cisco Catalyst SD-WAN Manager API is a REST API interface for controlling, configuring, and monitoring the Cisco devices in an overlay network.

How to test SD-WANs

When determining the best SD-WAN solution, there are some basic things you should test, such as scalability, failover, application performance and usability.

Speed Test on SD-Routing Devices

3 Information About Speed Test Internet speed test: Cisco SD-WAN Manager tests the network speed. Cisco SD-WAN Manager designates the device as the client site and the iperf3 server as the remote

Learn About S.M.A.R.T. Self-Monitoring Analysis and Reporting ...

Introduction S.M.A.R.T. (Self-Monitoring, Analysis and Reporting Technology) monitors and checks the health of a drive. It will detect and report if the drive has errors and is at risk of failure. A drive that

Cisco Security and SD-WAN Efficacy and Performance Evaluation

1.0 Executive Summary Cisco engaged Miercom to conduct a review of their converged security and SD-WAN technologies available through Catalyst and Meraki WAN appliances. Six models were

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North American project region: Ashburn, Loudoun County, Virginia, United States

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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