

Test Report of Upgraded Carrier-Grade Router



AI Overview

Independent tests confirm that modern carrier-grade routers deliver high performance, low-latency, and robust SRv6 and SDN capabilities suitable for large-scale network deployments.

Huawei NetEngine 8000 Series Evaluation

The Huawei NetEngine 8000 family, tested by EANTC in January 2020, was evaluated for functionality, performance, availability, and manageability. Key highlights include:

- Advanced SRv6 Support:** Segment Routing over IPv6 enabled seamless end-to-end tunnels across data centers and WANs, with traffic engineering constraints based on bandwidth, latency, and link cost.
- Resiliency:** SRv6 path protection (TI-LFA FRR) achieved less than 11 ms detection and rerouting for single node failures, while egress node protection (END.M) responded in 2 ms.
- Line Card Performance:** The 4T line card supported high-density 100GE ports, and the 400GE prototype card offered eight 400GE and eight 100GE ports. Standard RFC2544 benchmarks confirmed high throughput, low latency, and efficient power usage.
- Optical Module Support:** Modules supported 50GE and 100GE over 80 km and BiDi 50GE over 40 km, ensuring long-distance connectivity.

ZTE ZXR10 M6000-SE Interoperability Test

ZTE's ZXR10 M6000-SE was tested in a multi-vendor EANTC interoperability scenario in 2024:

- SRv6 Micro-Segment (uSID) Testing:** First-time evaluation of uSID-based SRv6 functions.
- Interoperability:** Demonstrated compatibility with other vendors for L3VPN, EVPN services, SRv6 flexible algorithms, TE SR policies, and BGP IPv4/IPv6 routing.
- Commercial Readiness:** Results indicate strong potential for large-scale SRv6 deployment and end-to-end service transport.

Key Performance and Market Insights

Carrier-grade routers are increasingly designed for high-bandwidth, low-latency networks, supporting 5G, cloud computing, and IoT traffic. Leading vendors...

Article Content

What is Carrier Grade? Key Components & Advantages

Carrier Grade refers to networks or infrastructure that have extremely high reliability, and is both well-tested, reliable, and redundant.

Case Study: Calix Wi-Fi Performance | InterOperability

The IOL has helped test Calix products over the years to meet standardized test plan requirements, from the days of ADSL to today with Wi-Fi and PON

Carrier-Grade Reliability: Evaluating MTBF and Redundancy in Bulk ...

This analysis evaluates the engineering rigor required from a true carrier-grade bulk network routers supplier, moving beyond marketing claims to focus on IEEE 802.1Q and ...

How we test Wi-Fi routers

How we test Wi-Fi routers: Real-world tests Next, we put the router through several real-world trials, starting with the saturation test.

The Best Wi-Fi Routers We've Benchmarked in 2026:

Keep in mind that Wi-Fi 7 routers are currently the gold standard for consumer-grade routers, but Wi-Fi 8 is on the horizon.

WebProcure

WebProcure offers best-in-class functionality, reaching end-to-end from requester to procurement buyer to merchant, and all the way back! Designed specifically for the public sector.

Cisco Carrier Grade Services Engine Module Data Sheet

The Cisco ® Carrier-Grade Services Engine (CGSE) for the Cisco Carrier Routing System (CRS) is an ideal platform for these services. The Cisco

Cisco ASR-9006-AC vs ASR-9001: Carrier-Class Router Performance ...

When evaluating carrier-grade routing solutions, network architects must carefully compare the Cisco ASR-9006-AC (modular aggregation router) with the ASR-9001 (compact service

Global Carrier Class Router and Switch Market Size, Share, Growth ...

Integrating new carrier-grade routers and switches into existing infrastructure often involves complex compatibility issues, requiring extensive testing and customization.

H3C Flagship Router CR16000-F Achieves Prestigious MEF CE3.0

In achieving this certification, the CR16000-F router underwent a rigorous evaluation process, including over 25,000 test cases across various Carrier Ethernet business models such as

Carrier-Grade NAT-Is It Really Secure for Customers? A Test on a ...

Request PDF | Carrier-Grade NAT-Is It Really Secure for Customers? A Test on a Turkish Service Provider | Dramatic rise in the user amount yields increase in the number of internet

Mikrotik Experts | Finally had the time to do some tests on ...

Finally had the time to do some tests on #MikroTik CCR2116-12G-4S+ the first 2xxx MikroTik Router with 4SFP+ 10Gbit interfaces. 2xRB5009 for generating traffic. So the data are

Cisco Carrier Routing System

Install and Upgrade Install and Upgrade Guides Most Recent Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced Router System

40-Gig Router Test Results

40-Gig Router Test Results The first independent test of the Cisco CRS-1 * Tbit/s of bandwidth * Millions of routes * Tens of millions of flows

Cisco Carrier Routing System

+ Cisco CRS Carrier Routing System 8-Slot Line Card Chassis Enhanced Router Unpacking, Moving, and Securing Guide Cisco CRS Carrier Routing System 8-Slot Line Card

Cisco Carrier Routing System

For example, when I raise a Change Request (CR) in ServiceNow to configure a new VLAN ID and VLAN name, the goal is that: ServiceNow sends the CR data to DNAC DNAC applies

High End Routing & Aggregation

Dell'Oro's report provides quarterly market share and 5-year forecasts for High-End Routers and Aggregation Switches in service provider networks.

The 3 Best Wi-Fi Routers of 2026 | Reviews by Wirecutter

We've tested the latest Wi-Fi routers and found the best options—from budget models to top-of-the-line—to make your wireless network

Cisco Carrier Routing System

Cisco Carrier Routing System - Some links below may open a new browser window to display the document you selected.

Carrier-grade Flag Products-H3C

CR16000 Routers support robust BRAS functionality, carrier-grade CGN, enabling high-density user access and flexible service delivery. Its powerful performance and security features ensure a stable

How To Upgrade Your Router's Firmware

Learn how to easily upgrade your router's firmware to ensure improved performance and security. Step-by-step guides and tips to stay up-to-date with the latest software updates.

EANTC Independent Test Report

The minimum requirement is to enable IPv6 forwarding across all the transit routers, plus the ingress and egress routers must be SRv6-aware routers. In the following test cases, Huawei demonstrated

Optimized Software for Virtualization Field-Proven, Carrier-Grade ...

Field-Proven, Carrier-Grade Reliability The OneOS6 routing engine of the ONEeRouter is today at the core of over 2 million Ekinops routers, under the OneAccess brand, around the world. Using proven

Cisco Carrier Routing System

Cisco CRS Carrier Routing System Ethernet Physical Layer Interface Module
Installation Note 28-Jun-2018 Cisco CRS Routers 16-Slot Line

ZTE's carrier-class router products deliver excellent achievements in ...

With over a decade of participation in EANTC tests, ZTE has fully demonstrated the advancement and reliability of its router products and solutions in the test.

BBF.398 Carrier-Grade Wi-Fi

Each revision of the test plan and the BBF.398 Carrier Grade Wi-Fi program denotes a set of test cases for features that are considered conditional or optional. For each test plan revision, the

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.tomor.eu>

Email: info@tomor.eu

Phone: +49 69 2381 5497

Address: Am Hauptbahnhof 10, 60329 Frankfurt am Main, Germany

This document is for informational purposes only. Specifications subject to change without notice.

