



EANTC

Welcome to the November Newsletter from EANTC – The European Advanced Networking Test Center.

EANTC first to validate Juniper Networks MX 3D router capabilities with new Junos Trio Chipset

EANTC announced today that the company was commissioned by Juniper Networks to validate the performance, services scale, and power efficiency of the new 16-port 10 Gigabit Ethernet (16x10GbE) MPC line card and MX80 3D router. EANTC was able to independently verify the new products' capabilities prior to their public introduction, finding that the Junos Trio-based line cards delivered the performance and scalability claimed by Juniper.

Results

- Density and scale, 1,44 Tbit/s (unidirectional) throughput at 1 billion packets per second. in 1/6 rack; 240 Gbit/s (unidirectional) IPv4 and IPv6 forwarding on a single line card;
- Unicast routing performance: 2.4 million IPv4 and 2.4 million IPv6 active prefixes; 60,000 multicast groups, 660,000 multicast receivers on a single line card
- Service scale: 6,000 Layer 3 VPNs and 6,000 VPLS instances
- Power consumption testing per ATIS standards, showing 25.3 W per 10GbE port at wire-speed (2,433 W for a fully loaded MX480 3D chassis) and 3.38 W per gigabit of throughput



Figure 5: Juniper MX80 3D

Ixia equipment was used to conduct the tests in Sunnyvale in September 2009.



Conclusion

The capabilities enabled by the Junos Trio chipset-based 16x10GbE MPC line card and MX80 3D router were very impressive. EANTC sees Juniper pushing new boundaries concurrently for Ethernet density, services, and subscriber scale, as well as power efficiency.

The fact that the Junos Trio chipset and the same Junos operating system is supported across multiple product lines enables synergies for network operators. They can now support a common set of functionalities throughout the core, aggregation, and edge parts of the network.

The detailed test report is available for download at: <http://www.eantc.com/juniper2009>

To watch the [video](#) please select it from the list at the top of the page.

Upcoming EANTC Events

It would be a great pleasure to meet you at:

- CEW APAC in Kuala Lumpur, Malaysia
November 2–4, 2009, Renaissance Hotel
Visit our live interop showcase & presentations
- ITSF 09 - Time & Sync in Telecoms
November 3–5, 2009 Rome, Italy
Visit our presentation with the topic: Synchronization Testing – an MEF Perspective
- NetEvents Asia Service Provider Summit,
Singapore, November 18, 2009
Chat with Carsten at NetEvents' annual APAC press event
- MPLS and Ethernet World Congress in Paris, France. February 9–12, 2010.
Next multi-vendor MPLS & Ethernet interoperability test in January 2010, result presentation at the congress in Paris.