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Industry's best performance awarded to Alcatel-Lucent in 10GigE switch test

In brief:

- Independent open industry 10 GigE performance and power test puts Alcatel-Lucent ahead in performance and density with smallest footprint of core switches on market
- Alcatel-Lucent OmniSwitch 10K delivers 25 to 50 percent more throughput on a single switch over competitors with port density of up to 256 10GigE ports
- Alcatel-Lucent delivers a new breed of data center and core LAN switch where power efficiency is crucial

Results from an open industry test of 10Gigabit Ethernet switches were published and Alcatel-Lucent's OmniSwitch 10K was recognized as the leader for port density. The OmniSwitch 10K when placed under very high load, was specifically measured to be best at minimizing latency for layer 3 forwarding and IP multicast traffic. The OmniSwitch 10K also was measured to be nearly twice as energy efficient as Junipers EX8216.

The test, conducted by independent analyst and publisher Nick Lippis of The Lippis Report and Ixia, a leader in converged IP network test solutions, focused on Performance & Power Test For Private and Public Data Center Clouds Ethernet Fabrics, indicates that the OmniSwitch 10K is a market leading contender for deployment in data centers with high performance, low power usage and efficient handling of traffic.

The report also proved that the OmniSwitch 10K has the raw performance and low power consumption that makes it a leading choice for deployment in the core of a converged network, supporting private and public data center clouds, and in service aware network solutions typically sold to utilities, transportation and public safety organizations.

According to the report, the OmniSwitch 10K, which was introduced to the market in late 2010, demonstrated that it maintained 100% throughput at line rate and the smallest average latency aggregated over all the tests, all while delivering 25 to 50 percent more throughput over the other modular chassis data center solution vendors who participated.

The OmniSwitch 10K performed well under cloud simulation conditions by delivering 100% aggregated throughput while processing a large combination of east-west and north-south traffic flows. Not a single packet was dropped while the OmniSwitch 10K was presented with enough traffic to populate its 256 x 10GbE ports at line rate simultaneously for both L2 and L3 traffic

flows, the report noted.

Additional Alcatel-Lucent OmniSwitch 10K highlights noted by Lippis include:

- **Winner of Port Density Award**
  - Unmatched port density of 256 x 10GbE wire-speed 5.12 Tbps performance
- **Smallest Footprint with maximum Performance and Density**
  - OmniSwitch 10K with 256 x 10GigE wire-speed ports.
- **Market Leading Traffic Handling**
  - OmniSwitch 10K demonstrated both unicast and multicast traffic at scale when fully populated at 256 x10GigE at line rate.
- **Unmatched Throughput**
  - OmniSwitch 10K showed no Head of Line Blocking (HOL) or back pressure with the best performance under highly congested conditions

About OmniSwitch 10K

The OmniSwitch 10K is a powerful new 10 Gigabit Ethernet (10GigE) enterprise switch that sets a new standard in non-blocking switch capacity, port density, and low power consumption. The OmniSwitch 10K Modular LAN Chassis is the first of a generation of network infrastructure offerings that exemplify Alcatel-Lucent's approach to enabling Application Fluent Networks designed to deliver a high-quality user experience while optimizing the performance of legacy, real-time, and multimedia applications.

Spokespersons

Nick Lippis, Lippis Report	"The results show that the OmniSwitch10K enters the market with very competitive performance, latency and low power consumption. It is a well designed product and provides IT business leaders with a compelling option for their private or public cloud infrastructure."
Michel Emelianoff, General Manager, Network Infrastructure, Alcatel-Lucent Enterprise	"Alcatel-Lucent is delivering on the critical and changing needs of networking. Virtualization, cloud computing, and the increase in multi-media capable devices used on the network create new complexities and traffic requirements. This test demonstrates how Alcatel-Lucent's OmniSwitch 10K brings a flattened network designed to be resilient, offers low-latency and provide carrier class quality of service QoS."

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