

Testing Cisco's Media-Centric Data Center: Cisco Nexus 7000 Series Switches Highlights

Recently, Light Reading commissioned the European Advanced Networking Test Center AG (EANTC) to conduct an independent test of a premium network solution to facilitate advanced IP video services for service providers, enterprises, and broadcasters.



Following are excerpts that highlight the industry-leading nonstop communications features, architecture, and design of the Cisco Nexus™ 7000 Series Switches.

Cisco Nexus 7000 Series Control Plane Failover

“Throughout both upgrades, we witnessed zero packet loss. After the last major upgrade was completed, we added the business services from the Nexus 5000, still witnessing no loss. We conclude that data center administrators can upgrade their Nexus 7000 gear even during peak hours without users experiencing the negative impact of dropped packets. This obviates the need for the administrator to come in at night or during the weekend in order to [perform] such upgrades, which in turn avoids an extra cost to the provider.”

http://www.lightreading.com/document.asp?doc_id=177358&page_number=6

Cisco Nexus 7000 Series In-Service Software Upgrade (ISSU)

“The Nexus 7000 kept running a full traffic profile, with zero packets lost, when a line card with an active control plane was physically removed from the switch... Throughout three full repetitions of the test we observed zero packets lost, indicating that a control plane failure in the Nexus 7000 would not induce a negative impact on the end user. That’s another useful piece of news for the service provider operating a data center. All Service Provider need are two control planes in each Nexus 7000 switch for both control plane failure conditions and hitless software upgrade.”

http://www.lightreading.com/document.asp?doc_id=177358&page_number=7

Cisco Nexus 7000 Series Data Center Convergence

“Using the Virtual Port Channel and Virtual Device Context features, Cisco reduces failure times in the data center to less than a second.”

http://www.lightreading.com/document.asp?doc_id=177358&page_number=5

Conclusion

"Major and minor hitless software upgrades can be accomplished on Cisco's Nexus 7000 Series switches."

"...Make the lives of your operations staff simpler and, with two control plane modules in your data center switches, you will be able to enjoy hitless software upgrades and won't lose valuable services revenues when the control plane fails."

http://www.lightreading.com/document.asp?doc_id=177358&page_number=8

For More Information

To see the full Light Reading report, Testing Cisco's Media-Centric Data Center, visit

http://www.lightreading.com/document.asp?doc_id=177358&page_number=1.



Americas Headquarters
Cisco Systems, Inc.
San Jose, CA

Asia Pacific Headquarters
Cisco Systems (USA) Pte. Ltd.
Singapore

Europe Headquarters
Cisco Systems International BV
Amsterdam, The Netherlands

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at www.cisco.com/go/offices.

CCDE, CCENT, CCSI, Cisco Eos, Cisco HealthPresence, Cisco IronPort, the Cisco logo, Cisco Lumin, Cisco Nexus, Cisco Nurse Connect, Cisco StackPower, Cisco StadiumVision, Cisco TelePresence, Cisco Unified Computing System, Cisco WebEx, DCE, Flip Channels, Flip for Good, Flip Mino, Flip Video, Flip Video (Design), Flipshare (Design), Flip Ultra, and Welcome to the Human Network are trademarks; Changing the Way We Work, Live, Play, and Learn, Cisco Store, and Flip Gift Card are service marks; and Access Registrar, Aironet, AsyncOS, Bringing the Meeting To You, Catalyst, CCDA, CCDP, CCIE, CCIP, CCNA, CCNP, CCSP, CCVP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Collaboration Without Limitation, EtherFast, EtherSwitch, Event Center, Fast Step, Follow Me Browsing, FormShare, GigaDrive, HomeLink, Internet Quotient, IOS, iPhone, iQuick Study, IronPort, the IronPort logo, LightStream, Linksys, MediaTone, MeetingPlace, MeetingPlace Chime Sound, MGX, Networkers, Networking Academy, Network Registrar, PCNow, PIX, PowerPanels, ProConnect, ScriptShare, SenderBase, SMARTnet, Spectrum Expert, StackWise, The Fastest Way to Increase Your Internet Quotient, TransPath, WebEx, and the WebEx logo are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (0907R)