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Independent Lab Test Finds HyperIP for VMware Exceeds NetEx Performance Specs With Up to a 10x Boost for VMotion WAN Data Transfers

Deep Storage Validation Testing Cites HyperIP's Non-Intrusive Architecture and Ability to Accelerate VMotion Live Migration Over Low-Cost Networks

MINNEAPOLIS, Minn. – August 31, 2009 – NetEx®, the leader in WAN optimization software, today announced that independent testing by a top validation lab has found that HyperIP® for VMware boosts performance for VMotion WAN transfers even beyond NetEx's specifications, providing a real-world solution for remote VMotion migration of virtual machines that is not offered by VMware.

The DeepStorage Labs validation testing was designed to measure the sensitivity of VMotion to typical WAN impairments, including bandwidth limitations, latency, packet loss and jitter levels of the same type that enterprises face when sending data over a typical WAN link. The lab performed a virtual machine migration using VMotion across the emulated WAN connection. The same test was then repeated with the addition of HyperIP optimization software to evaluate its ability to offset the negative effects of WAN-based data transfers.

DeepStorage Labs found that "regardless of network conditions, HyperIP enabled VMotion migrations to complete in less than 30 seconds while keeping the virtual server running." DeepStorage Labs was especially impressed with the performance of HyperIP for VMware on a 100Mbps emulated MPLS link. "Migrating our

test server took one-tenth the time with HyperIP than it did without. This exceeds the vendor's claim that their product increases transfer rates by a factor of up to six."

Because of VMotion's sensitivity to latency and data loss over distances it has largely been limited to moving local virtual machines within a data center. HyperIP for VMware opens up true WAN-based VMotion migration with a design optimized for long-distance data migration that mitigates performance degradation due to distance latency. The net result is up to a 1000 percent performance improvement in VMotion migration speeds when using HyperIP, as validated by the DeepStorage Labs tests.

In summarizing its testing of the HyperIP for VMware WAN optimization software, DeepStorage Labs came to four conclusions:

• HyperIP accelerates VMotion across WAN links up to 10X

• VMotion migration times over even low-cost networks are comparable to migrations within the data center

• HyperIP's virtual appliance architecture requires no changes to the underlying network simplifying implementation and reducing cost

• HyperIP is a valuable addition to the system architect's bag of tricks when data, or virtual systems, must be transferred between locations as in a DR scenario.

For a copy of the complete DeepStorage Labs Validation Report on HyperIP for VMware go to http://www.netex.com/docs/hyperip/whitepapers/HyperIP-enables-VMotion-over-WAN.pdf.

"The comprehensive testing by DeepStorage Labs validated two important messages that NetEx has been sending to VMware users," said Robert MacIntyre, NetEx Vice President of Business Development and Marketing. "The findings verify that NetEx performance claims for HyperIP for VMware can be supported in real-world testing, and, more importantly, that HyperIP extends the functionality of VMware. The combination of HyperIP and VMotion make remote migration of live virtual machines an attractive and viable user option for the first time, giving VMotion a new life for live migrations beyond the data center."

HyperIP for VMware is the industry's only virtualized software-based WAN optimizer, operating in VMware ESX Server – including the new vSphere cloud-optimized virtual infrastructure – to boost the performance of storage replication, backup, disaster recovery and migration applications from companies such as EMC, NetApp, FalconStor, Symantec, IBM, Data Domain and many more. A complete list the BC/DR solutions supported by HyperIP is available at http://www.netex.com/products/hyperip/supported-applications.

NetEx will showcase its HyperIP® for VMware software at VMworld 2009, August 31 to September 3 at the Moscone Center in San Francsico, Booth #1739.   In keeping with the virtual theme of the event NetEx will make the HyperIP for VMware demonstrations available to a global virtual audience with a live feed at http://www.netex.com/vmworld2009 .   NetEx will also add broadcast feeds on YouTube.com, on Twitter at http://twitter.com/HyperIP and via Facebook at "HyperIP by NetEx." Information about HyperIP is also available at the VMworld 2009 Virtual Exhibitor Booth at http://www.vmworld.com/community/exhibitors/netex/.

NetEx is currently making HyperIP for VMware WAN optimization software available for a free 10-day trial, allowing organizations the time to properly test HyperIP with replication, backup, cloud storage, and other IP-based data transfer requirements and managed service offerings. Qualified end users, service providers and resellers can download HyperIP software at http://www.netex.com and simply click the 'free evaluation' button on the company home page. Access to the free HyperIP evaluation software is also available through the VMware Virtual Appliance Marketplace at http://www.vmware.com/appliances/directory/node/155643. HyperIP for VMware WAN optimization software carries a list price of $2000.

About DeepStorage
DeepStorage is dedicated to providing independent information on storage and other inside the data center technologies to help organizations solve real world problems. Our 25 years of experience testing, writing about and most importantly implementing systems in the real world informs everything we do, leading to the development of our hands-on philosophy. Our lab is at the heart of the hands-on philosophy providing a facility where we evaluate hardware and software products away from the influence of the vendors. We perform

validation, usability, power use and performance testing in individual and competitive tests for publication and the private use of our clients. Our reviews have appeared in major publications including *Network World*, *Network Computing* and *InformationWeek*. For additional information, visit www.deepstorage.net.

About NetEx
Formed in 1999 as a spin-off of Storage Technology Corporation (StorageTek®), privately-held NetEx is providing the world's fastest WAN optimization software in the industry, along with guaranteed data delivery, for over 20 years to more than 100 of the world's largest and most sophisticated organizations, including some of the most prestigious providers of financial, transportation and telecommunications services and government entities. Customers include BP, Telstra, NTT, Verizon, BellSouth, Qwest, Royal Bank of Scotland Group, LloydsTSB, NDC Health, IRS, American, Lufthansa, Northwest, United Airlines and Kellogg. As a VMware Technology Alliance Partner, NetEx's HyperIP WAN optimizer software has demonstrated impressive performance numbers for supercharging VMware applications worldwide. For more information about NetEx, NetEx/IP or HyperIP, visit www.netex.com or call +1-763-694-4300.
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