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## **NEC SELECTS CHELSIO ADAPTERS FOR VECTOR SUPERCOMPUTER**

**SUNNYVALE, CA – April 16, 2014** – Chelsio Communications, Inc., a leading provider of 10-Gigabit and 40-Gigabit Ethernet adapters and ASIC solutions (Terminator 4 and 5), today announced that its T4 based 10GbE adapters have been selected by NEC Corporation for NEC's HPC Systems for network and storage connectivity in SX-ACE, the latest SX-series Vector Supercomputer, targeted at large data processing applications. Equipped with the Chelsio T420-CR Storage Adapter, the NEC SX-ACE enables customers to achieve unprecedented levels of performance and efficiency for scientific computing applications such as weather forecasting, climate studies, fluid dynamics and material science simulations.

Chelsio's T4 and T5 based 10GbE adapters, among the highest performing in the industry, are designed for converged storage, server and cluster networking solutions. The Terminator Unified Wire Engine combines high performance protocol offload with advanced security, reliability, traffic management and QoS capabilities.

"Chelsio's high performance T4 engine is an ideal 10GbE solution for our new SX-ACE Vector Supercomputer platform", said Shigeyuki Aino, Chief Manager of 3<sup>rd</sup> Server Department, IT Platform Division, NEC Corporation. "By leveraging Chelsio's T420-CR 10GbE network interface card and related technologies within the SX-ACE, NEC HPC's solutions are shattering performance and efficiency barriers for shared file systems, and



high performance computing applications.”

“We are particularly happy to provide high speed connectivity for NEC’s SX-ACE Vector Supercomputer, given that our Terminator architecture’s pedigree traces back to such environments. T4 has specifically been designed for high throughput and low latency clustering, in conjunction with efficient storage networking”, said Kianoosh Naghshineh, president and CEO of Chelsio. “T4 based products provide a converged fabric solution for our customers, using industry standard protocols such as iSCSI, iWARP, TCP/IP and UDP/IP over the familiar Ethernet technology. API compatibility with our T5 and follow on ASICs further assures our customers a smooth and pain free transition to 40Gb and beyond.”

NEC HPC’s SX-ACE combines NEC HPC’s system software with symmetric multi-processing and the latest networking and storage hardware innovations – including 10GbE connectivity, a 64b multi-core vector processor and 64GB of memory per node – to deliver unprecedented performance and efficiency levels. With 256GFlops per node, one tenth the power consumption and one fifth the floor space of previous generations, the NEC HPC SX-ACE Vector Supercomputer dramatically raises the bar for computational and space efficiencies.

Chelsio’s Terminator 4 is a hyper-virtualized protocol offload engine, a proprietary fourth generation ASIC that supports a complete suite of storage and networking protocols, with unique security, traffic management and QoS capabilities. T4 based adapters transform standard Ethernet into a robust, reliable, high-speed Unified Wire fabric that enables simultaneous support for storage and compute network applications that traditionally required different fabrics such as FibreChannel or InfiniBand.

## **About NEC Corporation**



NEC Corporation is a leader in the integration of IT and network technologies that benefit businesses and people around the world. By providing a combination of products and solutions that cross utilize the company's experience and global resources, NEC's advanced technologies meet the complex and ever-changing needs of its customers. NEC brings more than 100 years of expertise in technological innovation to empower people, businesses and society. For more information, visit NEC at [www.nec.com](http://www.nec.com).

### **About Chelsio Communications, Inc.**

Chelsio Communications is leading the convergence of networking, storage and clustering interconnects and I/O virtualization with its robust, high-performance and proven Unified Wire technology. Featuring a highly scalable and programmable architecture, Chelsio is shipping 10-GbE and 40-GbE Ethernet and multi-port Gigabit Ethernet adapter cards, delivering the low latency and superior throughput required for high-performance computing applications. For more information, visit the company online at [www.chelsio.com](http://www.chelsio.com).

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