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CHELSIO TERMINATOR 5 UNIFIED WIRE ADAPTERS ACHIEVE FIRST-TO-MARKET DELIVERY OF WINDOWS 10 ENTERPRISE CLIENT RDMA SUPPORT

High-Performance iWARP (RDMA/TCP) Networking Enables Improved Performance of Windows 10 Professional Applications

SUNNYVALE, CA – September 12, 2016 – Chelsio Communications, Inc., a leading provider of high performance Ethernet adapters for storage networking, virtualized enterprise datacenters, cloud service installations, and cluster computing environments, today announced that its line of Terminator 5 (T5) 10 and 40 Gigabit Ethernet (GbE) iWARP- (RDMA/TCP) enabled Unified Wire adapters have achieved “Certified for Windows 10 Enterprise” hardware certification for Windows 10 Enterprise Client RDMA feature enabling high-speed access to Windows Server using SMB Direct. Windows 10 Enterprise Anniversary Update (AU) includes an inbox driver for Chelsio iWARP enabled 10/40GbE Unified Wire adapters.

The Windows 10 Enterprise Client RDMA feature provides I/O-intensive desktop applications, such as Video post-production, Oil/Gas and Computer-Aided Design applications, with high-speed access to Windows Server enabled by SMB Direct networking. Chelsio iWARP enabled Unified Wire adapters are first-to-market solution providing support for Client RDMA. As a result, customers using Windows 10 Enterprise for professional applications will see performance improvements while taking advantage of the ease of use and low cost of ownership of Chelsio iWARP.

The iWARP (RDMA/TCP) standard permits building very efficient, high performance, Client RDMA-enabled Windows 10 Enterprise deployments very quickly. iWARP works with any



Ethernet switch, thereby enabling incremental Windows 10 Enterprise RDMA installations without requiring a concurrent forklift upgrade of the Ethernet switch infrastructure. This ability to work with any switch, allows use of the most cost effective new or existing switch infrastructure with the least amount of support, while enabling an immediate plug-and-play deployment. The support of iWARP protocol for Windows Server 2012-R2 and Windows Server 2016 release allows for a very robust, tested, end-to-end RDMA networking deployment with iWARP.

“Chelsio is pleased to be first-to-market with high-performance 10/40GbE iWARP Ethernet RDMA solutions for Windows 10 Enterprise,” said Kianoosh Naghshineh, CEO, Chelsio Communications. “With Microsoft’s concurrent certification of Chelsio’s solution for Server 2016, Chelsio iWARP offerings can now enable the full benefits of RDMA networking to be delivered for large-scale, end-to-end Windows 10 workstation to Windows Server applications via using the same wire protocol on both ends of the wire”.

“iWARP is the ideal high-performance RDMA over Ethernet solution for Microsoft Client environments, and allows the utilization of existing Ethernet infrastructure and reduces the complexities and costs commonly found in other RDMA protocols,” said Philip Moss, CPO, Acutech, a UK-based service provider and Microsoft Cloud OS networking partner providing cloud solutions. “Chelsio RDMA cards based on iWARP also integrate seamlessly with Storage Spaces Direct delivering very high performance storage to Windows 10 Enterprise; meeting the demands of the highest performance applications and complex datasets, with the simplicity of iWARP.”

“The new Client RDMA feature allows improved response times for the broad base of Windows 10 Enterprise professional applications requiring high-performance access to Windows Server storage,” said Siddhartha Roy, Group PM Manager, Microsoft Corp. “We are pleased to see Chelsio support our mutual customers.”



About Chelsio iWARP

Chelsio's Terminator 5 ASIC offers a high performance, robust third generation implementation of RDMA (Remote Direct Memory Access) over 40Gb Ethernet – iWARP. T5 delivers end-to-end RDMA latency that is comparable to InfiniBand, using standard Ethernet infrastructure. Chelsio's iWARP is in production today in GPU applications, in storage applications as a fabric for clustered storage, for Lustre and other storage applications, for HPC applications, and for remote replication and disaster recovery. It is a high performance, robust, reliable, and mature protocol that enables direct data placement, CPU savings, and RDMA functionality over TCP/IP and legacy Ethernet switches and internet with no performance penalties.

About Chelsio Communications

Chelsio is a recognized leader in high performance (10Gb/25Gb/40Gb/50Gb/100Gb) Ethernet adapters for networking and storage within virtualized enterprise datacenters, public and private hyperscale clouds, and cluster computing environments. With a clear emphasis on performance and delivering the only robust offload solution, as opposed to simple speeds and feeds, Chelsio has set itself apart from the competition. The Chelsio Unified Wire fully offloads all protocol traffic, providing no-compromise performance with high packet processing capacity, sub-microsecond hardware latency and high bandwidth. Visit the company at www.chelsio.com, and follow the company on [Twitter](#) and [Facebook](#).

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