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Fact Sheet

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NEW INTEL CONTROLLER AND SERVER ADAPTERS IMPROVE VIRTUALIZATION AND DATA PROTECTION

ORLANDO, Fla., June 24, 2008 – At Cisco Live!, Intel Corporation introduced a low-power, halogen-free Ethernet controller and three corresponding server adapters for multi-port Gigabit connectivity in multi-core and virtualized server environments. These new products are the industry's first Ethernet solutions to implement the recently completed PCI-SIG I/O Virtualization (PCI-SIG SR-IOV) specifications. They also include new security features, IPsec offload and built-in LinkSec functionality, to protect data across the network without affecting I/O performance.

Intel® 82576 Gigabit Ethernet Controller:

- The new dual-port I/O controller provides energy-efficient PCIe-based 1GbE connectivity to boost I/O performance with data protection across the data center network.
- At approximately 2.4 watts, the low-power server silicon is ideally suited for multi-port adapters and LAN on Motherboard (LOM) and blade designs.
- The Ethernet Controller is expected to ship by the end of July.

Intel® Gigabit ET and EF Multi-Port Server Adapters:

- Third-generation Intel PCIe Gigabit Ethernet network adapters provide high performing 10/100/1000 Ethernet connection and bandwidth for I/O intensive networking applications.
- Based on the Intel 82576 Gigabit Ethernet Controller, this new family of server adapters includes dual- and quad-port adapters for copper implementations and a dual-port adapter for fiber:
 - Intel® Gigabit ET Dual Port Server Adapter is a dual-port copper adapter capable of 100m transmissions on CAT5e cable. This adapter is expected to ship by the end of July with an MSRP of \$223.
 - Intel® Gigabit ET Quad Port Server Adapter is a quart-port version of the above. This adapter is expected to ship by the end of October with an MSRP of \$578.

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- Intel® Gigabit EF Dual Port Server Adapter is a dual-port fiber adapter capable of 275m transmission at 62.5um and 550m at 50um. This adapter is expected to ship by the end of October with an MSRP of \$955.
- Demonstrations of the Intel Gigabit ET and EF Multi-Port Server Adapters are featured at the Intel booth #608 at Cisco Live! 2008.

Intel 82576 Gigabit Ethernet Controller and the family of Intel Gigabit ET and EF Multi-Port Server Adapters offer the following common features:

Optimized for Virtualized Environments

Intel® Virtualization Technology for Connectivity (Intel® VT-c) is a suite of I/O virtualization technologies that improves overall system performance by lowering the I/O overhead in virtualized environments. Components of Intel®VT-c are:

- Intel® I/O Acceleration Technology (Intel® I/OAT) increases I/O throughput and reduces CPU utilization in multicore Intel processor-based servers.
- Virtual Machine Device Queues (VMDq) optimizes networking performance on virtual servers by offloading data sorting and copying from the Virtual Machine Monitor (VMM) software layer to the hardware.
- PCI-SIG SR-IOV implementation with Intel® VT for Directed I/O provides direct VM connectivity and data protection across VMs.
- The new Intel dual- and quad-port Gigabit adapters are hardware-ready for PCI-SIG SR-IOV functionality and provide functionality for future enablement of PCI-SIG SR-IOV in virtualization OS software.

Advanced Security Features

New Ethernet controller and server adapters provide data protection across data center network solutions without affecting I/O performance with Microsoft IPsec suite and Cisco LinkSec

- The IPsec offload feature is designed to offload authentication and encryption of some types of IPsec traffic and still delivers near line-rate throughput and reduced CPU utilization.
- LinkSec is a new IEEE industry-standard feature designed into the network adapter hardware to provide the LinkSec functionality when the ecosystem is ready to support the new technology.
- Intel Gigabit ET and EF Multi-Port Server Adapters provide authentication and encryption for IPsec and LinkSec.

Intel's Ethernet products support a broad range of Operating Systems, including: Windows* (Vista, Windows Server 2008, Windows Server 2008 Hyper-V, Windows Server 2003, Windows Virtual Server 2005); Linux* (RedHat*, SUSE*) and Fedora*, FreeBSD*, EFI (Intel® Itanium® processor-based systems), and VMware ESX.

For more information, visit www.intel.com/network and www.intel.com/go/vtc.

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