Windows Server 2012 Unified Wire Suite
Comprehensive Networking, Clustering and Storage Driver Offering

Networking and Virtualization

- NDIS with Scalable Networking
- TCP Chimney Offload
- Network Direct over iWARP RDMA
- Hyper-V support
- SR-IOV support

Storage

- SMB Direct over iWARP RDMA
- iSCSI Initiator
- iSCSI Crash Dump
- FCoE Initiator
- FCoE Crash Dump
- DCBX support

Unified Boot™

- iSCSI Boot
- FCoE Boot
- PXE
- UEFI
- Concurrent availability of boot options
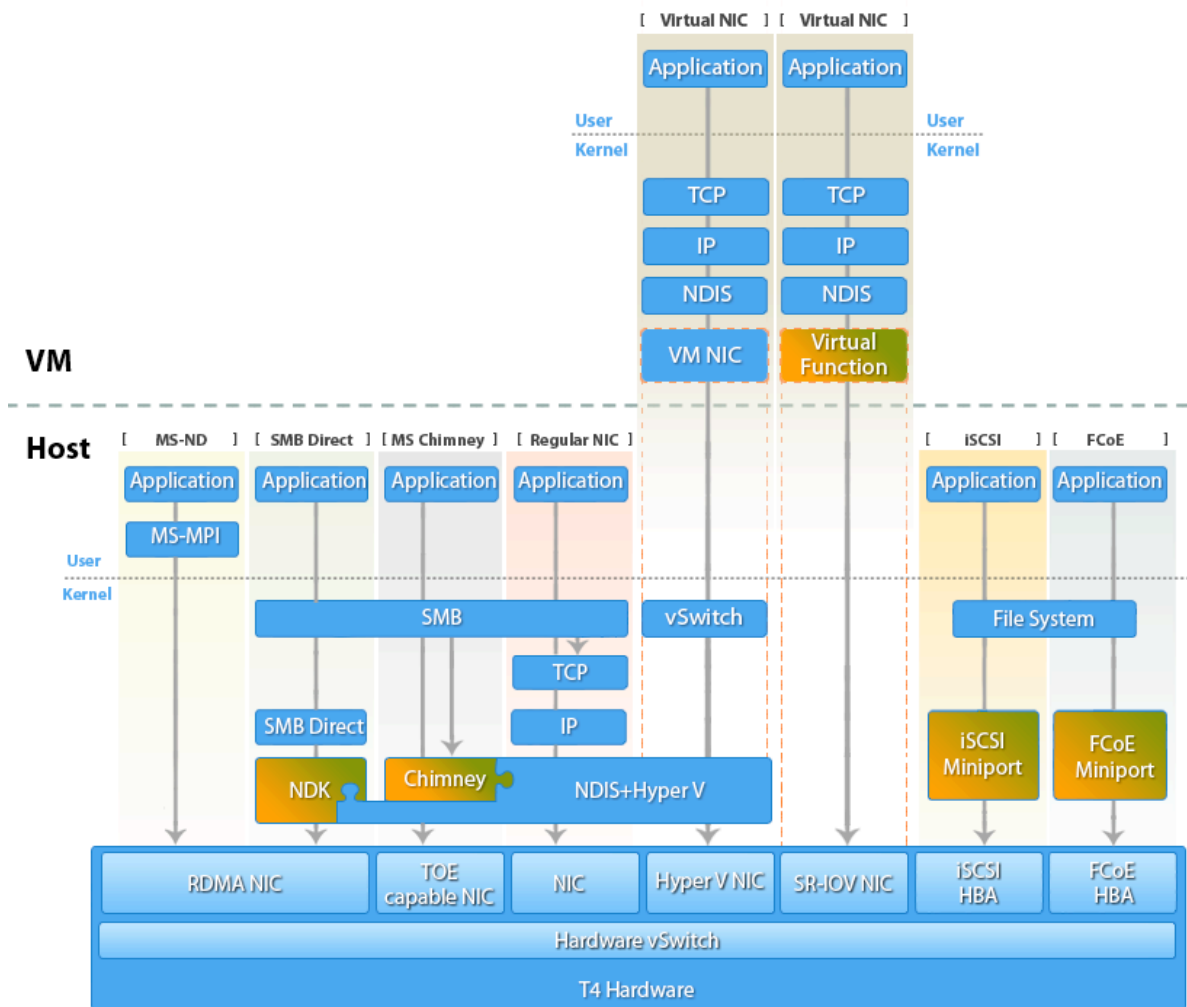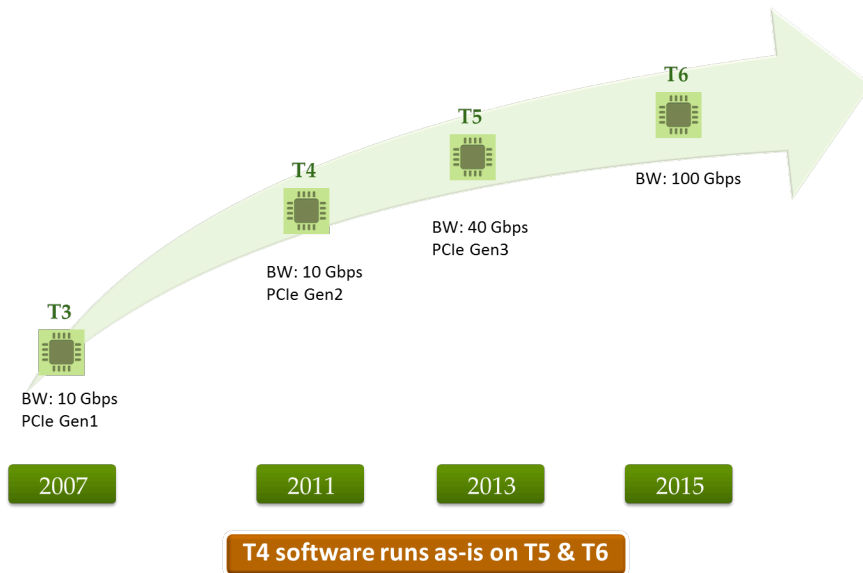
Benefits

- Converged interconnect solution for server networking, storage networking and clustering on a single Ethernet fabric
- Designed for low latency and high bandwidth
- Complete portfolio of 1GbE and 10GbE NICs
- Reduces host CPU utilization by up to 90%
- Highly programmable & manageable solution
- **Concurrent operation** of all drivers
    - Same firmware
    - Same adapter
    - Same port

Applications

- Networking
- Storage
- High performance computing clusters
- Security and firewalls
- Virtualization
- Cloud installations and virtualized clouds
- Media streaming

The **Windows 2012 Unified Wire Suite** from Chelsio Communications is a scalable high performance driver and software suite, enabling simultaneous support of all the networking and storage protocols in Windows Server 2012. The suite provides hardware accelerated operation using Chelsio's robust and field-proven Terminator architecture, a fourth generation design widely deployed in server, storage and clustering interconnect applications. By saving CPU cycles required for storage or networking stack operation, Chelsio's solution fully realizes the value of Windows Server 2012.

A recognized performance leader in the Ethernet space, Chelsio offers a strong roadmap to 40G and 100G Ethernet. Chelsio's Windows Server 2012 Unified Wire Suite will be carried forward across future silicon generations, such that no software modification will be required to use higher speed interfaces.

T3
BW: 10 Gbps
PCIe Gen1

T4
BW: 10 Gbps
PCIe Gen2

T5
BW: 40 Gbps
PCIe Gen3

T6
BW: 100 Gbps

2007   2011   2013   2015

T4 software runs as-is on T5 & T6

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