

V10 Converged Network Interface Controller (C-NIC) – The Critical Enabler for Unified Ethernet Communications**by Allen Light, Broadcom Corporation**

The three benefits of attending this session are:

Value and benefits of TOE, iSCSI and RDMA

Practical deployment of Gigabit Ethernet technology on PCI-E

Gigabit Ethernet Solutions

The focus of this topic is on the emergence of the *converged* network interface controller (C-NIC) providing accelerated client/server, clustering, and storage networking and enabling the use of unified TCP/IP Ethernet communications.

TCP protocol offload (TOE) tightly coupled with server operating systems using interfaces such as Microsoft Chimney.

RDMA over TCP offload supported via RDMA interfaces.

iSCSI offload which is tightly coupled with server operating system storage stack.

Embedded server management capability with support for OS present and absent states – enabling complete remote systems management for rack, blade, and virtualized server systems.