



**Turn virtualization into realization.**  
**Welcome to the new data center.**



# Announcing the Latest Emulex-Enabled Server, Fabric and Storage Virtualization Technologies.

With enterprises expanding and resources shrinking, managers have come to realize that many of today's practices won't cut it tomorrow. They need less complexity and greater control.

If you're considering a next-gen data center, consider this: Emulex is enabling infrastructure virtualization. Right now. Today. Our latest server, fabric and storage virtualization technologies can facilitate and accelerate the process, allowing you to move, manage and maintain information faster and more efficiently than ever.

## **Server Virtualization: Do more with less**

Server virtualization enables the deployment of multiple full-featured application environments called "virtual machines" (VM) across one or a few hardware platforms. A user-invisible OS called a "hypervisor" transparently controls hardware-resource scheduling and management, further improving operational efficiency.

## **LightPulse® Virtual HBA Technology**

This technology incorporates industry-standard N-Port ID Virtualization (NPIV), allowing end users to effectively "virtualize" and optimize HBA functionality – linking all server-resident virtual machines to a shared pool of adapters, while allowing each virtual machine independent access to its own protected storage. Now, administrators can easily leverage fabric zoning, LUN mapping/masking and other SAN management best practices, and simplify virtual machine migration. Emulex is the first to include NPIV support in its standard 4Gb/s product line.

## **Benefits**

- Compliance with SAN management best practices
- Leverage existing tools for fabric Quality of Service
- Faster, more flexible new-application provisioning
- Improved incident resumption and disaster recovery

## **Virtual Fabrics: Setting the fabric free**

Continual expansion of your enterprise storage network can strain fabric management functions, such as device discovery, fabric reconfiguration and quality of service. Left unchecked, this growth can impact the productivity of both the SAN and the IT team.

Emulex-enabled virtual fabrics allow administrators to create isolated domains within a single physical SAN fabric or switch. Large SANs can be segmented into smaller logical SANs, each with a dedicated set of fabric services. SAN islands can be consolidated into one larger physical SAN, while retaining their logical topologies. These logical SANs can be optimized for maximum efficiency, security and manageability.

## **Taking fabric integration to the next level**

Emulex is extending support in its LightPulse Virtual HBA technology for the virtual fabric industry standard, to enable simultaneous native access to multiple virtual fabrics – enabling the optimization of virtual fabric services according to lines of business, applications or virtual machines.

## **Benefits**

- Consolidation of SAN islands
- Enhanced storage infrastructure scalability
- More efficient SAN utilization



## Storage Virtualization: Simpler is smarter

The complexity and diversity of enterprise storage environments can stifle even the most experienced data center manager. Storage virtualization simplifies and enhances storage management by aggregating the sprawl of multiple physical storage arrays into a uniformly managed and highly available set of virtual storage resources. Key virtualization applications include non-disruptive data migration, data replication and heterogeneous volume management.

## AV150 Intelligent Storage Processor

The AV150 is the solution of choice for intelligent switches and SAN appliances. In response to the demand for simplified management and large-scale storage consolidation, Emulex offers the AV150, a fully integrated Fibre Channel Intelligent Storage Processor. Designed to eliminate the latency and scalability issues inherent in earlier storage virtualization devices, the AV150 provides unparalleled performance and functionality for these applications.

Using a unique, “split-path” data-streaming architecture, it delivers sustained, wire-speed processing performance with very low I/O latency – facilitating up to 700,000 virtual IOPS. The AV150 is the first solution of its kind to enable end-to-end intelligence across the entire storage infrastructure.

## Benefits

- ⦿ Improved resource utilization
- ⦿ Streamlined storage IT management/operational costs
- ⦿ Accommodates the latest “storage-aware” processes and applications
- ⦿ Delivers critical SAN performance and scalability

# The new data center

## The Emulex-Enabled Virtualized Infrastructure

Imagine provisioning complete server and storage services to your diverse set of clients with a simple click of a button. Imagine having these services available in minutes as opposed to weeks. Combining server, fabric and storage virtualization technologies in the new data center makes this vision possible. Services can now consist entirely of virtual resources: *Virtual Server + Virtual HBA + Virtual Fabric + Virtual Disk*. With this blueprint for the fully virtualized data center, Emulex is working closely with industry-leading partners to ensure its products work seamlessly together in a robust, interoperable and integrated fashion. Turning Virtualization into Realization.

## Emulex:

### At the nexus of data center virtualization

As a leader and catalyst for innovation and investment protection, we’ve been the preferred supplier of SAN connectivity solutions for more than a decade. Today, we have the broadest enterprise deployment of Fibre Channel HBAs. More importantly, our quality, experience and breadth put Emulex squarely at the nexus of the virtualization infrastructure – enabling solutions that finally deliver on the promises of the virtualized data center. Emulex. Ready when you are.

For more information, visit [Emulex.com/virtualization](http://Emulex.com/virtualization).

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