

Networking Software

Virtual Fabric

Virtual Fabric®: Fast, Flexible and Reliable I/O

When it comes to I/O, data centers face more challenges than ever before, including:

- Expensive server configurations with four or more NIC connections.
- Applications requiring more than 1Gb but less than 10Gb of network bandwidth.
- Demand to reduce capital and infrastructure costs.
- Finite power envelope and rising energy prices.
- Focus on ROI with future flexibility to adjust bandwidth per NIC as demand require.
- Demand for lower latency and better end user experience.
- More layers of complexity in the data center.
- Higher levels of security and availability.

Welcome Virtual Fabric, which provides fast, flexible and reliable I/O solutions that fit into your existing data center and offers you a new way to overcome these challenges. This new and innovative solution based on Emulex adapters and specific products is different from other vNIC solutions in that it carves up dedicated pipes between the adapter and the switch. This solution is built on industry standards, provides maximum performance in both directions and allows for pipes to be allocated at any speed from 1GbE to 10GbE. Building a Dynamic Infrastructure today with Virtual Fabric also allows for advanced levels of security and higher levels of availability per virtual NIC by leveraging virtual pipes, which isolate vNICs from each other.

Feature	Benefits
High-bandwidth 10 GbE switching in blade form factor	480 Gbps non-blocking, wire-speed bandwidth Great performance with bandwidth to spare for growing application needs
Lower TCO	Advanced features like static and dynamic routing protocols, filtering and full L2 and L3 capabilities eliminate the need for these functions to be provided on an external aggregation layer switch, lowering TCO Fewer discrete devices in a network means fewer potential points of failure, less time spent on management

Feature	Benefits
Lower power consumption	Low 10 GbE power consumption 30 percent more throughput per watt than an HP Virtual Connect Flex 10 7.5 times more throughput per watt than a 1 GbE switch One quarter the power draw of chassis-based 10 GbE switch

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