



## Optimize Network Efficiency and Server Virtualization with HP Virtual Connect Technologies

### Overview

[HP Virtual Connect](#) technology allows customers to assign network and storage connections once, and then add, move, replace or upgrade servers in minutes. This improves operational flexibility as well as efficiency while simplifying networking and management of next-generation data centers. Customers also reduce the equipment typically required to achieve the same capabilities at a lower cost.

### HP Virtual Connect enhanced with Flex-10

[HP Virtual Connect Flex-10](#) distributes the capacity of a 10-Gb Ethernet port into four connections to dramatically lower the cost and complexity of network connectivity. By adjusting bandwidth based on application workload requirements, customers can maximize their 10-Gb investments and support numerous virtual machines. This reduces overall network costs and power usage by provisioning network bandwidth more efficiently.

### Virtual Connect updates support more machines, bigger workloads

HP has introduced new interconnect technologies that enable organizations to relieve network strain caused by virtual machine deployments at the edge of the server environment. With the technology, customers benefit from increased port utilization, decreased hardware costs, as well as better performance and reliability of their data center. At the same time, server administrators can easily set up and manage more business application infrastructure connections without dependencies on network or storage administrators.

The new products include:

- [Virtual Connect 8Gb 24-Port FC Module](#) allows support of more virtual machines by one high-capacity Virtual Connect module through increased server-side N Port ID Virtualization (NPIV) support to maximize SAN bandwidth and reduce equipment costs. By offering more uplink connections at a higher bandwidth, this module reduces the number of SAN switch modules and cables needed.
- Virtual Connect Ethernet multi-enclosure stacking reduces equipment costs by minimizing the number of uplink cables needed. Allowing up to four HP BladeSystem enclosures to be connected together into one Virtual Connect module improves reliability and simplifies management.
- [Virtual Connect Enterprise Manager v1.30 \(VCEM\)](#) is updated to support the latest platforms and functionality for HP BladeSystem and Virtual Connect. VCEM centralizes

the management for Virtual Connect environments, enabling system administrators to work smarter and respond quickly to workload and business demands across their data centers. VCEM extends the number of supported Virtual Connect domains to 200 and BladeSystem enclosures to 800 (up to 12,800 servers),<sup>(1)</sup> when using Virtual Connect multi-enclosure domain stacking.

More information about HP Virtual Connect is available at <http://www.hp.com/go/virtualconnect>.

<sup>(1)</sup> Based on the HP BladeSystem c7000 enclosure, which holds 16 server blades per enclosure.

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