



HP-VMware Networking Solution

Federated software-defined networking and network virtualization solution provide common infrastructure and operations model across physical and virtual networks

Networks must become easier to manage

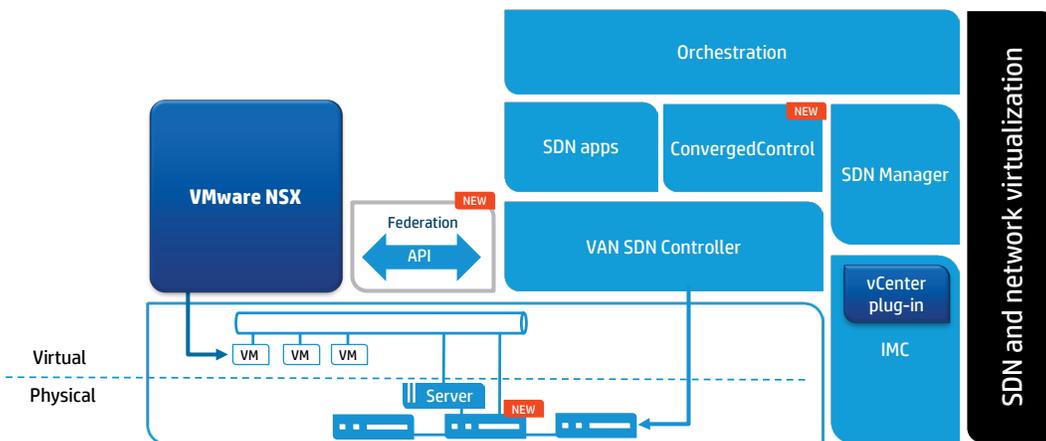
As companies embrace cloud and mobility, manual network configuration has proven time and resource intensive, as well as error prone. Network virtualization offers a centralized control plane, but does not automate configuration and provisioning of physical network devices.

The new HP-VMware networking solution federates the HP Virtual Application Networks SDN Controller with the VMware NSX network virtualization platform to provide customers with an integrated approach to automating their physical and virtual network infrastructure. The networking solution will provide a centralized view, unified automation, visibility and control of the complete data center network, improving agility, monitoring and troubleshooting.

Unifying physical and virtual networks

HP and VMware, in collaboration, will deliver the industry's first interoperable SDN solution—HP-VMware networking solution. The solution provides unified automation and visibility of the physical and virtual data center networks, enabling business agility and continuity.

Figure 1: HP-VMware Networking solution



"A hybrid model blends the device-based and the overlay models, transparently mixing physical and virtual devices under a common control plane. This approach promises a rapid time to value, support for bare-metal endpoints (servers, networking, security appliances and so forth) and a smooth migration to an optimal mix of endpoints." (1)

Joe Skorupa, VP Distinguished Analyst, Gartner

"Building upon our SDN leadership, the HP-VMware networking solution unifies visibility and automation of the physical and virtual network with a common control plane, enabling new application and service delivery in minutes rather than months."

Bethany Mayer, Senior Vice President and General Manager, Networking, HP

"Customers are adopting network virtualization to gain the necessary agility needed to realize the promise of virtualized and cloud data centers. To be successful, IT organizations need solutions to deliver common management of services and operations across the physical and virtual domains,"

Stephen Mullaney, Senior Vice President and General Manager, Networking and Security Business Unit, VMware.

(1) Gartner, "Market Trends: Business Realities Driving SDN in Data Center Networking in 2013 and Beyond," Analyst: Joe Skorupa, May 28, 2013.

The solution federates the **HP Virtual Application Networks SDN Controller** with the VMware NSX network virtualization platform providing a centralized control plane and view of the physical and virtual network while automating underlying configuration.

The solution provides unified automation and visibility of the complete data center network—improving agility, monitoring, and troubleshooting.

The solution is built upon:

- Federation APIs between the HP Virtual Application Networks SDN Controller and VMware NSX network virtualization platform.
- Unified physical and virtual visibility and intelligence with HP ConvergedControl SDN Application
- Single pane-of-glass management tool with HP Intelligent Management Center (IMC) with SDN Manager and integrated VMware vCenter plug-in
- The HP FlexFabric 5930 Switch to support the automated provisioning of the virtual network with VXLAN support

With VAN SDN and NSX federation, HP and VMware are creating in virtualized virtual networks—for the first time—the ability to:

- Unify virtual and physical devices
- Bridge virtual and physical networks
- Simplify network lifecycle management
- Deploy additional bandwidth rapidly
- Provide end-to-end visibility into availability and performance
- Enable rapid root-cause analysis and troubleshooting

Availability

The complete HP-VMware Networking solution will be available worldwide in **2H 2014**. Key components will be available on the following timeline:

- HP ConvergedControl SDN Application, **2H 2014**
- HP FlexFabric 5930 Top-of-Rack Switch, **December, 2013**
- HP Virtual Application Networks SDN Controller, **Q4 2013**

Learn more at

hp.com/networking