Hewlett Packard Enterprise

Accelerate to agility

Hewlett Packard Enterprise solutions and services
for VMware NSX

Accelerating the software-defined data center

For the past two decades, data center networking has remained relatively stable, meeting the needs of the traditional (i.e., static and physical) IT environment. Today, however, networking systems must respond to a demanding set of requirements created by a New Style of Business—characterized by exceptional agility, extreme speed, simplified management, and controlled costs. Can traditional networking deliver?

IT transformation continues

Server virtualization has had a transformative influence in IT environments. Organizations have quickly realized the advantages of the dynamic operational model and the distributed scale-out application capabilities it delivers.

For organizations to completely benefit from such technology, networks must be equally as agile—able to combat the pressures of the diverse and ever-growing workloads placed on them.

Today, lack of networking agility is a critical problem for any organization looking to benefit from virtualization and the new dynamic operational model.

A new solution for today's business requirements

Traditional hardware-defined network architectures and operational models are based on static physical workloads, manual operations, and north/south client-server traffic patterns. Distributed applications, cloud models, and dynamic environments require a software-defined approach to improve the organizational speed, IT agility, and data center security today's business leaders demand from IT.

VMware NSX®—the network virtualization platform for the software-defined data center (SDDC)—addresses this challenge. By bringing the operational model of a virtual machine (VM) to your data center network, you can transform the economics of network and security operations. NSX lets you treat your physical network as a pool of transport capacity, using a policy-driven approach to attach network and security services to VMs.

Hewlett Packard Enterprise and VMware (NSX) collaborated to deliver the HPE-VMware Networking Solution—an interoperable solution that delivers an agile SDDC. The solution is designed to help organizations:

• Deploy applications faster

• Simplify and automate the data center network fabric

• Improve security

One

One call, one vendor, for all your service needs for your end-to-end virtualization solutions: HPE.
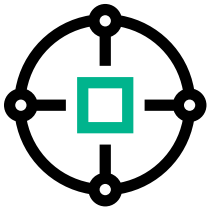
Transforming data center economics
By unifying the physical and virtual networking environments, this HPE and VMware solution can help you achieve a completely new operational model for networking—enabling you to attain orders of magnitude, better agility, and significantly improved economics.

Enabling the transition to an on-demand IT

Expanding our collaboration into software-defined networking extends HPE and VMware's market innovation in delivering end-to-end virtualization solutions. The effort also advances HPE's position as the leading provider of high-performance servers for virtualization solutions[1] spanning from the desktop to the data center and into the cloud by fully embracing VMware's ground-breaking NSX technology through:

• A comprehensive go-to-market and original equipment manager (OEM) agreement

• HPE top-of-rack (ToR) NSX switch certification

• Complete network virtualization lifecycle services

Bridging virtual and physical data center infrastructure

Network virtualization running on top of a robust physical fabric is the inevitable future of data center infrastructure. The physical fabric will continue to deliver significant value and capabilities beyond high performance and resilient capacity, including ToR switch-based physical-to-virtual gateways.

As data centers move toward ever-increasing virtualized/cloud environments, HPE continues to deliver innovative networking solutions to address the changing application architectures.

The HPE FlexFabric 5930 Switch Series has been certified by VMware to provide direct Open vSwitch Database Management Protocol (OVSDB) interoperability with VMware NSX to enable the bridging of virtual and physical data center networks.

The HPE FlexFabric 5930 is an advanced, top-of-rack data center switch that provides:

• High-performing, simplified scale-out 40/100 GbE spine and leaf network fabrics

• Design flexibility with 1U and multi-slot modularity for 40 GbE QSFP+ port density options

• No extra hidden cost with simply one license supporting all advanced switch features

HPE Software-defined Services for VMware—one vendor, one call

As you move to the hybrid delivery of IT infrastructure and virtualize your data center network, you might need a little help. With more than 35 years of data center networking expertise, 15 years of VMware expertise, and thousands of trained and certified experts across the globe, you can trust HPE to provide the skills you need, when you need them.

HPE's Network Virtualization Services for HPE-VMware NSX are designed to drive the network transformation process of combining hardware and software network resources, functionality, and management into a virtualized cloud, network functions virtualization, or software-defined infrastructure-ready network.

HPE's Software-defined Services for VMware enable your organization to better react to changing business dynamics, while providing a secure, stable environment. Your purchase of VMware NSX licensing from HPE comes with HPE Branded Software Support Services for VMware NSX, providing you with 24x7x365 access to HPE's networking, virtualization, and NSX experts to help you quickly resolve issues.

• We're ready to help you deploy new IT consumption models that enable you to transform today, integrate tomorrow, and prepare for whatever comes next.

• Support professionals are a single phone call or email away.

• HPE Financial Services programs are designed to flex to meet your needs and budget.

HPE and VMware—accelerating your transition to the software-defined enterprise

Trust HPE to deliver everything you need
Rather than manage multiple vendors, you can work with HPE to receive a complete network virtualization solution that includes:

• **One sales team**—Working with you from initial discussions through solution deployment

• **One purchase order**—For servers, storage, management, the requisite VMware virtualization software, top-of-rack Ethernet switches, support contract, and more

• **One reference design**—Clearly defining the lab-tested HPE-VMware Networking Solution

• **One support team**—Standing by to help you transition to the SDDC

What's next?

Contact your HPE representative today.[2] Find out how your organization can unlock the untapped potential in your data center by accelerating the adoption of network virtualization—enabling you to deploy applications faster, simplify and automate your data center network fabric, and improve security.

Our solution partner

vmware®

[2] VMware requires channel partners to achieve and maintain the VMware Network Virtualization Competency.

Learn more at
hpe.com/partners/vmware
hpe.com/networking
Solution Quick Specs

f y in ✉

Sign up for updates

★ Rate this document

Hewlett Packard
Enterprise