BROCADE VCS GATEWAY FOR VMWARE NSX

DATA CENTER

TRANSFORMING THE NETWORK FOR A SEAMLESS TRANSITION TO THE SOFTWARE-DEFINED DATA CENTER

Virtualization and cloud architectures have enabled organizations to move toward an environment that creates greater flexibility while meeting evolving and dynamic business needs. At the same time, server virtualization and cloud architectures have transformed the deployment and management of IT resources, leading to operational efficiency and business agility.

However, organizations deploying cloud architectures can experience roadblocks to achieving the benefits of virtualization and the Software-Defined Data Center (SDDC) when faced with the limitations of legacy networks. The inability to build multi-tenancy at scale, while also lacking the flexibility for Virtual Machine (VM) mobility and optimization for east-west traffic, hinders the very benefits organizations seek to achieve. Add to that the need for evolutionary solutions to ensure cloud architectures capable of leveraging virtual and hardware resources, and the challenge is clear: In order to take advantage of the operational efficiencies and increased agility offered by virtualization and cloud architectures, the network must transform to support this environment.

BROCADE AND VMWARE PROVIDE INTEGRATED NETWORK VIRTUALIZATION FOR PHYSICAL AND VIRTUAL ASSETS

With the introduction of Brocade® VCS® Fabric technology, many of the network challenges created by virtualization have been solved. By increasing flexibility and IT agility, VCS Fabric technology enables organizations to transition smoothly to elastic, mission-critical networks in highly virtualized data centers.

Brocade and VMware have partnered to help organizations realize the promise of the SDDC. VMware NSX is the leading network virtualization platform that delivers the operational model of a VM for the network. Similar to VMs for compute, virtual networks are programmatically provisioned and managed independent of underlying networking hardware. NSX reproduces the entire network model in software, allowing diverse network topologies to be created and provisioned in seconds. The joint solution removes the roadblocks to achieving the benefits of virtualization and cloud architectures. Together, Brocade VCS Gateway and VMware NSX unify

HIGHLIGHTS

• Enables the Software-Defined Data Center (SDDC) through an efficient, resilient, and scalable networking infrastructure using rBocade VCS Fabric technology and NSX network virtualization
• Leverages NSX network virtualization to unify physical and virtual architectures, allowing workloads, including mission-critical and non-virtualized applications, and databases to run across logical networks
• Supports overlay-based and native fabric-based solutions for increased choice
• Provides automation delivered through Brocade VCS Fabric technology that reduces complexity and increases efficiency for the underlying infrastructure

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virtual and physical infrastructure while providing customer choice with the ability to support both overlay-based and native fabric-based solutions.

By leveraging Brocade VCS Fabric technology, VXLAN supports the creation of large numbers of virtual domains above existing networks. This enables organizations to efficiently use their current infrastructure while leveraging the benefits of VXLAN to support multi-tenancy and large-scale deployment of applications and VMs.

VMware NSX paves the way for enterprises to rapidly deploy networking and security for any application, non-disruptively, by enabling the fundamental abstraction of networks from networking hardware—creating the virtual network. VMware NSX provides a full-service, programmatic, and mobile virtual network for VMs when deployed with Brocade VCS Gateway for NSX. In addition, resiliency delivered at the gateway level using VCS Fabric technology is essential for mission-critical applications. Furthermore, multiple VCS gateway devices are presented as a single logical gateway to the NSX controller, leading to operational simplicity and ease of management.

Together, Brocade and VMware help customers leverage the promise of the SDDC to help unleash the power, intelligence, and analytics of networks with a flexible, end-to-end solution. By using networking technologies more effectively when migrating toward highly scalable, simplified, and automated virtualized infrastructures, Brocade VCS Gateway and VMware NSX unify virtual and physical infrastructure for a seamless transition to cloud architectures.

**LEARN MORE**

Brocade partners with companies of all sizes to deliver innovative solutions that help organizations maximize the value of their most critical information. To learn more, visit www.brocade.com/alliance.

**ABOUT BROCADE**

Brocade (NASDAQ: BRCD) is the pure-play networking company that innovates to make high-performance networks easier to deploy, manage, and scale in the most demanding environments. Through industry-leading technology, unmatched expertise, and strategic partnerships, Brocade delivers resilient networks that increase agility and efficiency while helping organizations stay ahead of change. Learn more at www.brocade.com.

**ABOUT VMWARE**

VMware is the leader in virtualization and cloud infrastructure solutions that enable businesses to thrive in the Cloud Era. Customers rely on VMware to help them transform the way they build, deliver, and consume Information Technology resources in a manner that is evolutionary and based on their specific needs. With 2012 revenues of $4.61 billion, VMware has more than 500,000 customers and 55,000 partners. The company is headquartered in Silicon Valley with offices throughout the world. Learn more at www.vmware.com.

![Figure 1.](image)

Brocade VCS Gateway and VMware NSX unify virtual and physical infrastructure.

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