VPN-1 Power VSX

Virtualized security and unmatched manageability for virtualized enterprises

YOUR CHALLENGE

There is a growing need within large enterprises to extend networks, applications, and corporate databases to employees, business partners, and other guest users. This need has resulted in large, complex networks that are hard to manage and secure. At the same time, many administrators are starting to divide their infrastructure among various departments and groups using virtual LANs (VLANs). Although VLAN technology is effective at functionally dividing these networks, companies are still required to deploy separate firewall, VPN, and intrusion prevention devices in front of each network segment to achieve comprehensive security. This is expensive and creates a large, complex management overhead.

OUR SOLUTION

VPN-1® Power VSX™ is a high-speed, multipolicy virtualized security solution designed for large-scale enterprise environments like data centers and campus networks. Based on the proven security of VPN-1 Power, VPN-1 Power VSX provides comprehensive protection to multiple networks or VLANs within complex infrastructures, securely connects them to shared resources like the Internet and DMZs, and allows each of them to interact with each other safely, while providing centralized management. The VPN-1 Power VSX gateway enables organizations to create an advanced, virtual network of routers, switches, and VPN-1 gateways utilizing a single piece of hardware. This reduces the hardware investment and physical space needed to achieve security across the entire network by replacing and consolidating physical security and network devices. Only VPN-1 Power VSX provides a platform for highly scalable, virtualized network and security services that is easy to deploy and manage.

VPN-1 Power VSX is supported by SmartDefense™ Services, which maintain the most current preemptive security of the Check Point security infrastructure. To help you stay ahead of new threats and attacks, SmartDefense Services provide real-time updates and configuration advisories for defenses and security policies.

SCALABLE VIRTUALIZED ARCHITECTURE

VPN-1 Power VSX is composed of multiple virtualized security systems, each of which is a complete virtualized version of the market-leading VPN-1 gateway. Multiple virtual systems may be associated with a single physical interface on the gateway but remain completely separated from other virtual systems, maintaining a completely secure and private network environment. Up to 250 virtual systems can be deployed on a single VPN-1 Power VSX installation, providing a highly scalable virtual platform while reducing incremental hardware investment and space requirements.

PRODUCT DESCRIPTION

VPN-1® Power VSX™ is a virtualized security gateway that allows virtualized enterprises to create up to 250 virtual systems—firewall, VPN, and intrusion prevention functionality within a virtual network environment—on a single hardware platform.

PRODUCT FEATURES

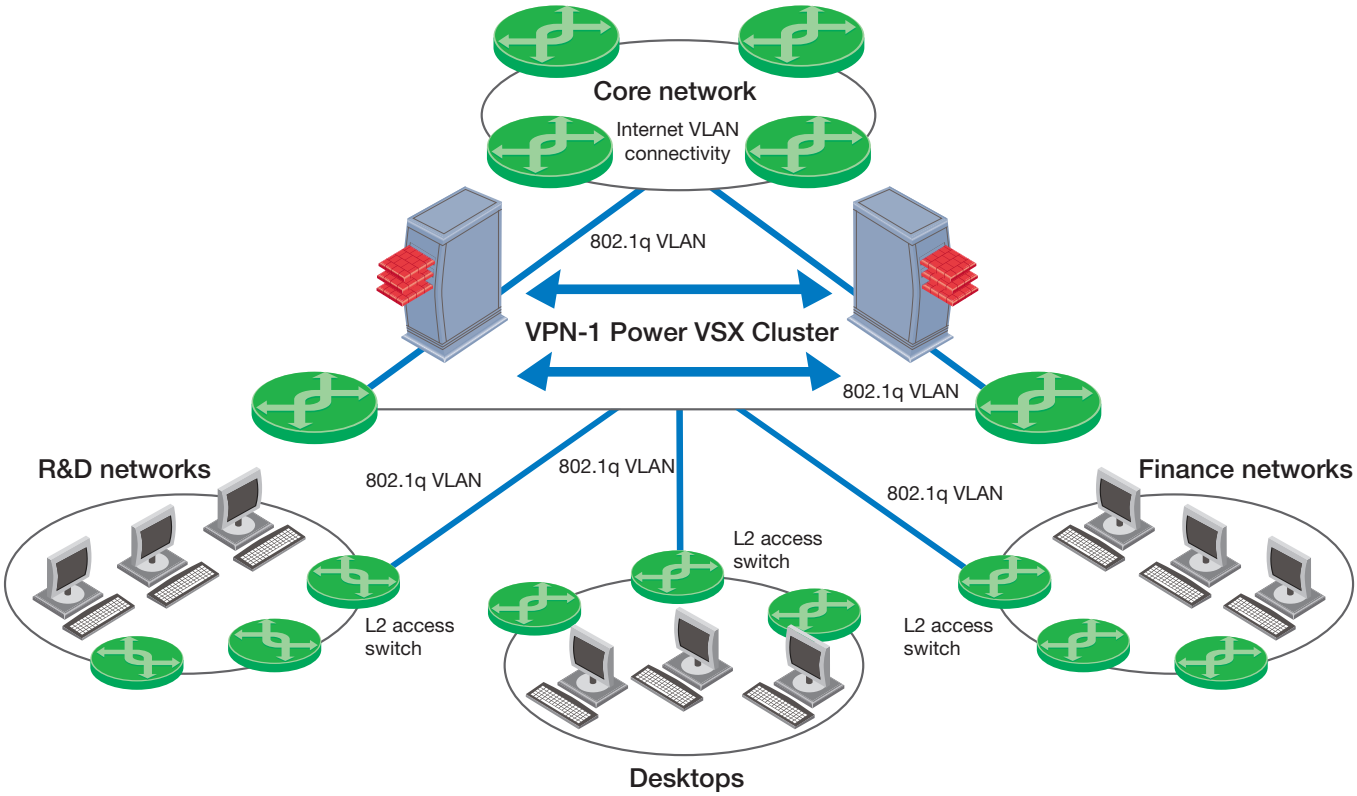
- Virtualized security, including firewall, VPN, and intrusion prevention
- Virtualized network environment
- Support for virtual systems in bridge mode to create transparent firewalls
- Clustering and wire-speed security for gigabit networks

PRODUCT BENEFITS

- Minimizes hardware investment
- Improves management efficiency
- Provides carrier-class availability and scalability
- Reduces physical space requirements
- Protects against new threats through SmartDefense Services

NGX™

The NGX platform delivers a unified security architecture for Check Point.



VPN-1 Power VSX is a high-speed virtualized security solution designed for large-scale virtualized environments like campus networks.

Virtualized network connectivity

VPN-1 Power VSX supports the creation of virtualized network components including routers, switches, cables, and routing protocols, providing complete control of the setup and configuration of the virtual network environment. With access to a virtualized network environment, administrators can create virtualized implementations of familiar physical topologies and designs. In addition, VPN-1 Power VSX has the ability to host virtual systems running in either router or bridge mode. The ability to deploy virtual systems in bridge mode allows administrators to seamlessly add a virtual system to the network without reconfiguring network settings and topologies.

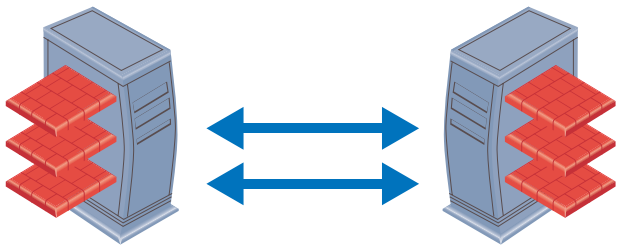
Wire-speed security

High-bandwidth networks require high-performance gate-ways in order to support thousands of applications and users. To provide world-class security at wire speed, VPN-1 Power VSX can be deployed on multiple carrier-class platforms using Check Point's SecureXL™ performance technology, ensuring the delivery of secure, multigigabit throughput.

Nonstop security

Check Point's ClusterXL® technology enables virtualized enterprises to configure VPN-1 Power VSX for nonstop security. As with clustering on a physical system, VPN-1 Power VSX clustering connects and synchronizes two or more VPN-1 Power VSX gateways so that if one fails another one immediately takes over its networking and security responsibilities. VPN-1 Power VSX provides seamless failover of connections and routing from one cluster member to another. It also includes graceful failover of VPN-1 Power VSX gateways in a dynamically routed environment to minimize network disruption. In bridge mode, individual virtual systems can failover to their virtual peers within the cluster. This level of high availability and resiliency promotes network-wide, nonstop, secure business operations at both the application and network levels.

Synchronization of customer data takes place in real-time using ClusterXL.



A cluster of VPN-1 Power VSX gateways delivers nonstop, wire-speed security.

Unparalleled protection

Enabling security for a wide range of network demands, VPN-1 Power VSX supports more than 150 predefined applications, services, and protocols out-of-the-box, as well as instant messaging, peer-to-peer applications, and VoIP.

In addition, VPN-1 Power VSX includes the same proven Check Point security technologies utilized in VPN-1 Power including Application Intelligence™ and SmartDefense , along with the ability to receive constant updates and protections from emerging threats with SmartDefense Services.

Secure remote access

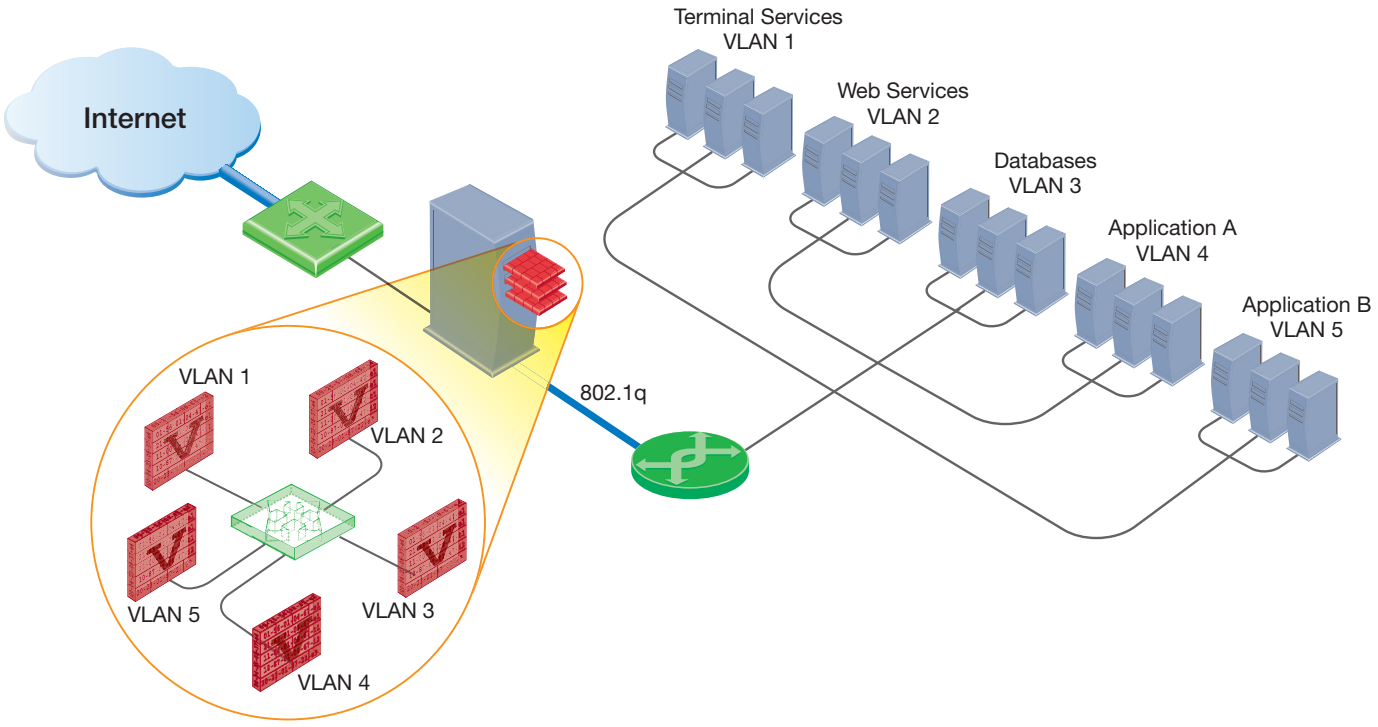
Every enterprise has a unique blend of requirements for remote access, depending on its types of users, the mix of applications to be accessed, and the level of endpoint security and management control demanded. With the integrated VPN features of VPN-1 Power, VPN-1 Power VSX provides flexibility, supporting multiple client options. Its SecuRemote feature provides basic connectivity that is easy for the user requiring occasional remote access to IP applications. And VPN-1 Power VSX's SecureClient™ functionality provides a higher level of security by adding a centrally managed personal firewall.

These capabilities allow secure remote access to be made an integrated part of the overall security policy in a VLAN environment. All elements of the security policy, including access control, attack protection, and user authentication, are strictly enforced, ensuring the highest levels of security down to the remote user level.

EASY, EFFICIENT, CENTRALIZED ENTERPRISE MANAGEMENT

VPN-1 Power VSX is managed with Check Point's SmartCenter™ and Provider-1® management solutions. Both provide powerful tools for centrally configuring, managing, and monitoring multiple VPN-1 Power VSX gateways, virtual systems, and physical VPN-1 gateways. Based on Check Point's Security Management Architecture (SMART), these solutions deliver the flexibility of choosing the appropriate management solution based on their network requirements. Check Point's One-Click VPN technology also enables virtual systems to be added seamlessly to a VPN community. The new virtual system automatically inherits the appropriate properties and can immediately establish secure sessions with all other VPN community members within the enterprise network. Additional tools such as virtual system creation wizards and templates further streamline the process of deploying and configuring VPN-1 Power VSX.

VPN-1 Power VSX provides administrative controls that maximize the efficiency of its hardware platform. Resource controls ensure that the consumption of CPU resources by each virtual system is optimal for overall network security. They can limit the CPU time available to a lower-priority virtual system and assign more capacity to mission-critical virtual systems.



A VPN-1 Power VSX gateway uses virtual systems to protect multiple VLANs.

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Lightweight Quality of Service enforcement provides the ability to assign optimal transmission characteristics to different classes of traffic. This reduces the need to build out costly network infrastructure while minimizing any congestion at the VPN-1 Power VSX gateway.

FLEXIBLE POLICY SEGMENTATION

An enterprise can use virtual systems to segment different business groups and classify the network either by service and function or by network segment. Therefore, administrators can maintain separate policies for different network segments and can divide large rulebases into several smaller rulebases for ease of management and better control of network security.

In an enterprise or campus deployment, a VPN-1 Power VSX gateway or cluster can be installed between VLAN switches, aggregating traffic to and from multiple subnets and the main enterprise/campus Internet link. A separate virtual system—providing access control, logging, and SmartDefense Services—protects each subnet. VPN-1 Power VSX also enables secure connectivity between subnets.

SYSTEM REQUIREMENTS	
Platforms	Check Point SecurePlatform™, Crossbeam X Series, IBM BladeCenter (firewall module only)
Processor	Intel Pentium II 1GHz-plus or equivalent processor
Disk space	4 GB
Memory	256 MB
Network interfaces	Three minimum (four for a VPN-1 Power VSX cluster)
SmartDashboard™ platforms	Windows 2000/2003/XP/ME/98
Disk space	100 MB
Memory	256 MB
Remote access client platforms	Windows 2000/XP/2003, Macintosh, Linux
Disk space	20 MB
Memory	64 MB

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