



CHECK POINT SECURITY GATEWAY

The Check Point Software Blade architecture supports a complete and increasing selection of Software Blades, each delivering a modular security gateway or security management function. As Software Blades are modular and flexible, they enable organizations to efficiently and quickly tailor security application functionality to specific and changing security needs. New software blades are easily added and licensed as needed without the addition of new hardware.

CHECK POINT SECURITY GATEWAY ON THE X-SERIES PLATFORM

Combining the Check Point software and blade architecture with the Blue Coat integrated application platform provides an unmatched, extensible solution that is trusted by large enterprises and service providers around the world. The software blade or virtualized software blade approach allows customers to choose from multiple Check Point applications, increasing flexibility of security services. The integration of the X-Series Platform with the Check Point Software Blade Architecture results in a unique and powerful solution that helps organizations:

- Simplify datacenter complexity through the consolidation of numerous, disparate appliances onto a single X-Series system.
- Deliver an extensible solution that readily adapts to the ever-changing security demands on business.
- Achieve unsurpassed reliability and stability of critical communications that meet tomorrow's growing business uptime demands.
- Improve operational efficiency while reducing the management and maintenance demands and costs within datacenter environments.
- Protect business critical assets while maintaining the highest network performance.

In support of simplifying the customer experience, Blue Coat has expanded its relationship with Check Point to directly sell the X-Series product line when deploying Check Point software. Customers now have a single, trusted partner for sales, application integration and support. The Check Point X-Series Platform is available to organizations worldwide starting in 2014.

BENEFITS

- Combine best-of-breed software security applications with industry-leading consolidation, adaptability, availability and operational efficiency
- Implement a Check Point only solution or integrate Check Point applications with other Blue Coat partner applications
- Support multiple instances of Check Point applications via VSX to create hundreds of individual security systems on a single blade

AN UNMATCHED, INTEGRATED SECURITY PLATFORM

The X-Series platform coupled with the Check Point Security Gateway provides unsurpassed performance for today's best-of-breed security software applications. Whether deployed as a Check Point only solution or utilized with other security applications provided by different Partners, the X-Series platform delivers unmatched consolidation, adaptability, availability and operational efficiency.



Solution Brief: Check Point Security Gateway on the X-Series Platform

CONSOLIDATION

Blue Coat and Check Point reduce complexity by consolidating firewall appliances with associated networking equipment into one adaptable platform. Up to 100 network and firewall devices can be consolidated within one X-Series platform, reducing time, operating costs, energy consumption, and complexity. Coping with more than 100 million concurrent firewall sessions, 600,000+ new stateful connections per second, and a real-world firewall throughput of 140Gbps, the X-Series delivers the performance needed by the most demanding environments.

ADAPTABILITY

Many organizations do not have a clear view of what changes will occur in the future regarding performance or security requirements. The only thing that is certain is there will be change. The X-Series platform enables Check Point application acceleration, virtualization and optimization to better meet the growing demands of today's businesses, without having to re-architect the physical network. Whether deployed as a Check Point- only security application platform or as a multiple-application platform comprised of Check Point and other complementary Blue Coat Partner technologies, the end result is a powerful, reliable, high-performance solution that readily adapts to the organization's security needs. This flexibility assures that the X-Series platform will continue supporting their business needs for many years to come.

AUTOMATION

The uptime demands on the network have never been higher and gone are the days when scheduled downtime was acceptable. Many many organizations strive for zero-downtime network environments. The X-Series solution provides adaptive self-healing through patented technology, which uses dynamic back-up modules or prioritization to assure key security applications remain functioning at full capacity if a module becomes unavailable. The X-Series combines superior networking, exceptional processing, and an open application architecture, to eliminate network and firewall outages.

OPERATIONAL EFFICIENCY

IT organizations are tasked to do more with less. The X-Series solution minimizes the number of devices required to secure today's fastest, most demanding networks by reducing the number of Layer 2 switches, load balancers, patch panels, cabling and power. The X-Series management capabilities streamline configuration and provide visibility into the entire solution; from individual chassis, to specific modules, to traffic flows and applications. This readily provides organizations with the appropriate information needed to effectively and quickly make decisions about maintaining their security infrastructure and protecting their business. Overall, the X-Series platform enables IT organizations to secure and run their businesses more proficiently with lower CapEx and OpEx costs.

SUPPORTED APPLICATIONS

Application	Description
Security Gateway	Check Point Security Gateway R77, R77.10
Security Gateway	Check Point Security Gateway R76
Security Gateway	Check Point Security Gateway R75.40VS
Security Gateway	Check Point Security Gateway R75.40
Security Gateway	Check Point Security Gateway R75.20
Security Gateway	Check Point Security Gateway R71.10
Virtual Security Gateway	Check Point VSX security operations platform VPN-1 Power VSX NGX R68
Virtual Security Gateway	Check Point VSX security operations platform VPN-1 Power VSX NGX R67
Firewall	Firewall-1 GX 5.0



SECURITY SOFTWARE BLADES AND SUPPORTING SOFTWARE RELEASES

Application	Description	R77	R76	R75.40
Firewall	World's most proven firewall secures more than 200 applications, protocols and services featuring the most adaptive and intelligent inspection technology.	✓	✓	✓
IPSec VPN	Secure connectivity for offices and end users via sophisticated but easy to manage Site-to-Site VPN and flexible remote access.	✓	✓	✓
IPS	The highest performing integrated IPS solution with the industry's best threat coverage.	✓	✓	✓
Application Control	Provides strong application and identity controls by allowing organizations to create policies which identify, block or limit usage of thousands of applications, based on user identity.	✓	✓	✓
Identity Awareness	Provides granular security policy at a per user, per group and per machine level. It centralizes the management, monitoring and reporting of user actions across the internal network, its perimeter and beyond.	✓	✓	✓
Web Security	Advanced protection for the entire web environment featuring the strongest protection against buffer-overflow attacks.	✓	✓	✓
URL Filtering	Best-of-breed web filtering covering more than 20 million URLs protects users and enterprises by restricting access to dangerous websites.	✓	✓	✓
Advanced Networking and Clustering	Simplifies network security deployment and management within complex and highly utilized networks, while maximizing network performance and security in multi-Gbps environments.	✓	✓	✓
Mobile Access	The safe and easy solution to connect to corporate applications over the Internet with Smartphones or PCs.	✓ ²	✓	✓
Anti-Bot/Anti-Virus	Scanning and recognition of malicious bots and viruses.	✓	✓	✓ ¹
Threat Emulation	Blocks attacks which cannot be detected by signatures and opens inspected files inside a secure emulation environment to detect malicious behavior.	✓		
Compliance	Analyzes your environment for compliance with major regulations and international standards then generates detailed reports, with best practice recommendations.	✓		

¹ In R75.47 and beyond

² Mobile Access VSX supported in R77.10

X-SERIES APPLICATION PROCESSOR MODULE (APM) PERFORMANCE

	APM-8650	APM-9600
Firewall Throughput (1518 byte packets)	9.5Gbps	18Gbps
iMix Throughput	4.96Gbps	17Gbps
IPS Throughput	5.6Gbps	17Gbps
Connections Per Second	60K	110K
Concurrent Connections	8M	10.5M
Packet Forwarding Rate	2.2M	5M
Operating System	XOS 8.5 or higher	XOS 9.5 or higher



X-SERIES SYSTEM PERFORMANCE

	X20	X30	X50	X60	X80-S
Real-World Platform Performance	5Gbps	10Gbps	17.6Gbps	70Gbps	140Gbps
Stateful Connections Per Second	120K	120K	150K	300K	600K
Maximum Concurrent Connections	8M	8M	18M	70M	100M
Stateless Connections Per Second	N/A (not enabled)	N/A (not enabled)	220K	550K	1.1M

SUMMARY

Blue Coat empowers organizations to safely and quickly choose the best applications, services, devices, data sources, and content, so they can create, communicate, collaborate, innovate, execute, compete and win in their markets. With the company's unique Business Assurance Technology solution set, Blue Coat assists organizations in unlocking their potential and achieving their business goals.

Blue Coat, along with partners such as Check Point, has developed a comprehensive, high-performance security solution for effectively enabling consolidated and virtualized security within large enterprises and service providers. The X-Series integrated security platform provides the highest hardware scaling and high availability for a growing list of state-of-the-art security applications, including load balancing, firewalls, intrusion prevention systems and more. The end result is a carrier-class, extensible security service platform that reduces the total time and cost of deployment and management of enterprise infrastructure, while providing competitive revenue-generation and cost-reduction opportunities for qualified service providers.

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