



Smart-1 Appliances

Cyber security management
in the era of Big Data

Security Management Appliances

YOUR CHALLENGE

Today organizations face new challenges in security management. Growth in the number of devices, users and content, and a dramatic increase in security incidents have resulted in a much larger overall security management workload.

In addition corporate boundaries are shifting from headquarters and branch offices, to roaming users through mobile devices, and from on premise to cloud environments. In order to manage the security environment in this changing landscape efficiently and effectively, organizations need an agile, robust, high capacity security management solution that keeps pace with these dynamic environments. This solution must manage a wide set of policies to maintain security even as boundaries, devices, and data change and evolve. It also needs to manage new security technologies as protections change to adapt to threats, and must process more data faster than ever before.

Despite these changes and expanding requirements, security resources remain constrained. Organizations strive to reduce the strain on their resources and seek simplification of security management tasks through consolidation, while maintaining visibility over the entire organizational security posture. To further streamline the security management process, organizations also search for solutions that immediately identify threats and link threats to security policies.

OUR SOLUTION

Check Point Smart-1 Appliances deliver cyber security management in the era of Big Data. Smart-1 Appliances, and the integrated Check Point Software Blade architecture, enable organizations to consolidate security policy, log, and event management into a single dedicated management appliance. From physical and virtual gateways to on premise and in the cloud, Check Point's unique and unified security management platform enables control over the broadest range of security features and functions.

Smart-1 Appliances offer a scalable solution designed to fit your needs today, with the ability to adapt to and accommodate your future requirements. Organizations of all sizes can leverage Smart-1 to manage from 5 to 5000 gateways within their network, and reduce the time and effort required to establish security management infrastructure. Security and control can be further improved by utilizing the Smart-1 Appliances to segment the network into as many as 200 independent domains by geography and business use.

KEY FEATURES

- Centrally manage 5 to 5000 Security Gateways
- Manage up to 200 independent security domains with multi-domain management
- Up to 24 TB of internal storage
- Up to 44,000 logs per second with real-time indexing for immediate search results
- Redundant, hot-swappable power supplies, fans and hard drives for a high degree of availability
- Wide variety of optional NICs, including 1GbE and 10GbE interfaces
- Optional SAN interface connects to central storage

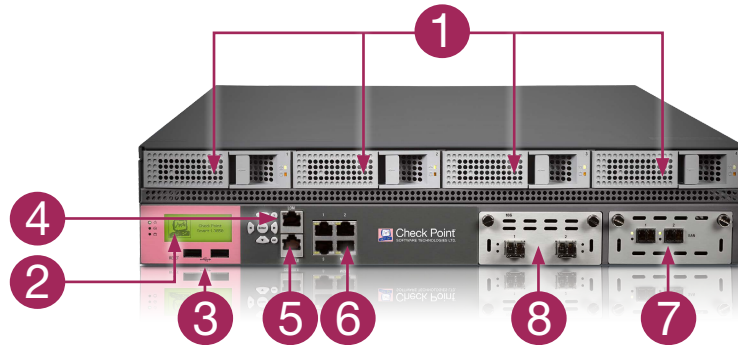
KEY BENEFITS

- Consolidate policy, log and event management in a single appliance
- Segment policy into independent security domains by geography or business use
- One-stop security management and monitoring for consolidated security with Firewall, IPS, Anti-Virus, Anti-Bot, Threat Emulation, DLP, URL Filtering, and Application Control
- Detect threats in real time with advanced log and event analytic tools
- Instant visibility into billions of log records
- Leverage Next Generation SmartEvent to generate customized and personalized views and reports in seconds
- Store more than double the log capacity, allowing for years of forensic investigation
- Enterprise-grade scalable platform for business-critical networks
- Maintain business continuity with redundant and reliable hardware and software



3050 Example Diagram

- 1 Redundant hot-swappable hard drives
- 2 LCD display
- 3 USB ports
- 4 LOM (Out-of-band Management) port
- 5 Console port
- 6 Four 1 GbE ports
- 7 Optional Fiber Channel SAN card
- 8 Extended Optional NICs



Smart-1 Appliances provide the flexibility and control required to manage even the most complex environments.

Check Point Smart-1 Appliances efficiently manage and analyze security log and events in real time. By implementing Smart-1 Appliances, organizations gain centralized visibility into billions of logs, visual indication of risks, and the ability to quickly investigate potential threats. Smart-1 Appliances provide Big Data intelligence to help organizations make fast and informed decisions regarding their security.

The Smart-1 Appliances deliver enterprise-grade scalability for business-critical networks. Network connectivity needs are met with optional SAN interfaces, 1GbE and 10GbE NIC options. The Smart-1 Appliances deliver a reliable platform with advanced management and redundant hot-swappable power supplies, fans, and hard drives to address the business-critical needs of any business environment.

SMART-1 APPLIANCES FEATURES

Consolidated and Comprehensive Security Management

Smart-1 Appliances consolidate security, log, and event management into a single dedicated management appliance and a unified management console for one-stop security management and monitoring. From SmartConsole, an administrator can define and monitor security policies across multiple security functions including Firewall, IPS, Anti-Virus, Anti-Bot, Threat Emulation, URL Filtering, and Application control.

Smart-1 Appliances provide central security management and the ability to view logs, track events, view reports and monitor security and network activity, see trends, and centrally distribute signatures and software updates.

Organizations seeking to optimize their security management can leverage the Compliance Software Blade on their Smart-1 Appliances. Security best practices provided by the Compliance Software Blade deliver continuous feedback to organizations to help them ensure that gateways and Software Blades are configured and managed correctly. The Compliance Software Blade simulates the security impact of configuration or policy changes before installation, and provides real-time notifications to administrators alerting them to potential risks. The Compliance Software Blade provides a valuable tool for organizations seeking to consolidate their security management and stay on top of your security posture.

Centrally Manage Up to 5000 Gateways

Check Point offers five Smart-1 Appliances to meet the needs of any enterprise. The 205, 210 and the 225 are enterprise grade appliances capable of managing up to 10, 20 and 50 gateways respectively. The 3050 and 3150 are ultra-high-end appliances capable of managing up to 100 and over 150 gateways (up to 5000 Check Point 1100 gateways).

	205	210	225	3050	3150
Managed Gateways	5	10	25	50	150+

Multi-Domain Management

Smart-1 Appliances allow IT administrators to segment security management into as many as 200 independent domains. Easily create domains based on geography, business unit or security function to strengthen security and simplify management by segregating administration and policies.

Smart-1 Appliances with Multi-Domain Log Management host log files in segregated domains and improve performance by isolating log traffic from management traffic.



Transform Data into Security Intelligence

Every Smart-1 Appliance includes SmartLog as part of the Logging and Status Software Blade and unified security management console. This enables enterprises to centrally track log records and security activity across all Software Blades. With split-second free-text search results, administrators gain instant visibility over billions of log records. The intuitive search delivers real-time results from any log field, displaying top-down results, saving security administrator's valuable time. Administrators can search multiple log files, time periods, gateways and domains, or search by action, user, time or geography for powerful granular security investigation.

Up to 24TB of internal RAID Storage

Smart-1 Appliances provide up to 24 TB of built-in storage as well as high-performance fiber channel connectivity to Storage Area Networks (SANs) for external storage.

Starting with a single 1TB or 2TB disk drive and expanding up to 12 x 2TB disk drives, the Smart-1 appliance is a flexible platform, providing storage capacities suited for small to large environments, able to host billions of log records.

Detect Threats in Real-Time

Smart-1 Appliances with Next Generation SmartEvent deliver real-time cyber threat visibility in the era of Big Data. Customizable views and personalized reports enable organizations to monitor important activities and keep key stakeholders informed. Next

Generation SmartEvent delivers big data threat detection capabilities in just seconds. Administrators can move from a high level view to detailed forensic analysis in just a simple click. With free-text search, and correlation of multiple logs, organizations can generate weekly reports in less than ten seconds and quickly analyze data and identify critical security events from the clutter.

Scalable and Reliable Platform






Smart-1 Appliances support Lights-Out Management (Out-of-Band Management) allowing off-network monitoring and control of the appliance, including device maintenance and administration. Several add-on options are available including a fiber channel SAN module, and redundant and hot swappable power supplies and hard drives, for a high degree of availability.

Network Connectivity

The Smart-1 Appliances provide a wide variety of network interfaces. Built-in 1GbE copper interfaces and optional 1Gbe or 10GbE copper or Fiber interfaces allows for flexible network connectivity. The optional SAN interfaces enable integration with high-performance fiber channel networks for backup, disaster recovery, and compliance requirements.



PRODUCT SPECIFICATIONS

Smart-1 Appliances	Enterprise Grade			Ultra High End	
	205	210	225	3050	3150
					
Policy & Log Performance					
Managed Gateways	5	10	25	50	150+ ¹
Maximum Domains (Multi-Domain Management)	-	-	-	50	200
Indexed Logs/Sec	3,000	5,000	11,000	26,000 ²	44,000 ²
Smart-1 Event Performance					
Event Logs/Sec	280	480	950 ³	3,000 ⁴	7,500 ⁵
GB of Logs/Day	3.5	6.5	13	40	100
Maximum Users	900	1,600	3,000	10,000	25,000
Hardware Specifications					
Storage (HDD)	1 x 1 TB	1 x 2 TB	2 x 2 TB	4 x 2 TB	up to 12 x 2TB ⁶ (default 6 x 2TB)
RAID Type	-	-	1	5, 10	5, 6, 10, 50, 60 (default 6/60 for 6/12 HDD)
Storage (SSD)	-	-	-	-	2 slots (Future option)
Memory Extension (RAM)	default 4GB	default 8GB	up to 32GB (default 16GB)	up to 256GB (default 32GB)	up to 256GB (default 64GB)
Interfaces					
Built-in Network Interfaces	4xCopper GbE	4xCopper GbE	4xCopper GbE	4xCopper GbE	4xCopper GbE
Extended Network Interfaces	-	-	-	Variety of optional 1GbE and 10GbE network interface cards ⁷	Variety of optional 1GbE and 10GbE network interface cards ⁷
Fiber Channel SAN Card	-	-	Optional ⁸	Optional	Optional
Management (Console Port)	1xRJ45	1xRJ45	1xRJ45	1xRJ45	1xRJ45
Out-of-band Management (LOM)	-	-	1xGbE Port	1xGbE Port	1xGbE Port
USB Ports	2	2	2	2	2
Additional Features					
Management HA	Included	Included	Included	Included	Included
LCD Display	✓	✓	✓	✓	✓
Secure OS	Pre-hardened, optimized operating system				

1 Managing up to 5000 Check Point 1100 Appliances

2 In Multi-Domain configuration

3 with 32GB RAM

4 with 128GB RAM

5 with 256GB RAM

6 Up to net 16TB disk space is available for log storage

7 Share network interface cards with Check Point 4000/12000 gateway appliances

8 Smart-1 225 can be ordered with or without SAN card. The SAN card cannot be ordered separately for the Smart-1 225.

(continued)


PRODUCT SPECIFICATIONS *(continued)*

Smart-1 Appliances	205	210	225	3050	3150
Web-based Administration	Enables quick, easy and secure administration from anywhere in the network				
Backup and Restore	For disaster recovery planning				
Centralized Administrative Rights	RADIUS authentication and RADIUS groups				
Physical					
Enclosure	1U	1U	1U	2U	3U
Dimensions – Standard (W x D x H)	16.97 x 11.52 x 1.73 in.	16.97 x 10.89 x 1.73 in.	17.4 x 21.77 x 1.73 in.	17.4 x 23.66 x 3.5 in.	17.4 x 24.85 x 5.2 in.
Dimensions - Metric (W x D x H)	431 x 292.5 x 44 mm	431 x 292.5 x 44 mm	442 x 553 x 44 mm	442 x 601 x 87.8 mm	442 x 631.1 x 132 mm
Weight	7kg (15.43 lbs.)	7kg (15.43 lbs.)	10kg (22.04 lbs.)	25kg (55.12lbs.)	32kg (70.55 lbs.)
Power					
Dual, Hot-Swappable Power Supplies	No	No	Yes	Yes	Yes
Power Input	AC 100 ~ 240V@ 50 ~ 60Hz				
Power Supply Spec (max)	150W	150W	2 x 275W	2 x 600W	2x800W
Power Consumption (max)	108W	108W	223W	434W	571W
DC Option	✓	✓	✓	✓	✓
Environment Conditions					
Operating Environment Range	Temperature: 32° to 104° F / 0° to 40° C Humidity: 5~90% (non-condensing)				
Storage Environment Range	Temperature: -40° to 158° F / -40° to 70° C Humidity: 5~95% (non-condensing)				
Certifications					
Safety	UL				
Emissions	CE, FCC Class A				
Environment	RoHS				



SOFTWARE PACKAGES

	Smart-1 (Single-Domain)			Smart-1 (Multi-Domain)	
	Pro	Policy	Event	Policy	Log
Network Policy Management	✓	✓	x	✓	x
Endpoint Policy Management	✓	✓	x	✓	x
Logging and Status	✓	✓	✓	✓	✓
SmartProvisioning	✓	✓	x	✓	x
Monitoring	✓ ¹	✓ ¹	x	✓	x
User Directory	✓ ¹	✓ ¹	x	✓	x
Compliance	✓	✓	x	✓	x
Management Portal	✓ ²	✓ ²	x	✓	x
SmartWorkflow	O	O	x	O	x
SmartEvent	✓	✓ ³	✓	x	x
SmartReporter	✓	O	✓	x	x
Global Policy	X	x	x	✓	✓

- ✓ Included
- O Optional
- X Not supported
- ✓¹ Optional on the 205 and 210. Included on the 225, 3050 and 3150.
- ✓² Optional on the 205, 210 and 225. Included on the 3050 and 3150.
- ✓³ For 2 gateways for 1 year

ACCESSORIES

	225	3050	3150
Interfaces			
4 Port 10/100/1000Base-T RJ45	-	✓	✓
8 Port 10/100/1000Base-T RJ45	-	✓	✓
2 Port 1000Base-F SFP	-	✓	✓
4 Port 1000Base-F SFP	-	✓	✓
2 Port 10GBase-F SFP+	-	✓	✓
4 Port 10GBase-F SFP+	-	✓	✓
Storage Interface (SAN) expansion card	✓	✓	✓
Memory (RAM) and HDD			
+16GB (add-on)	✓	-	-
+32GB (add-on)	-	✓	-
+64GB (add-on)	-	-	✓
128GB RAM (replace)	-	✓	-
256GB RAM (replace)	-	✓	✓
2TB Hard Drive	✓	✓	✓



ORDERING
Smart-1 Appliances

Smart-1 205¹	SKU
Smart-1 205 Appliance with Policy, Log & Event Security Management for 5 Security Gateways	CPAP-SM205-PRO
Smart-1 205 Appliance with Policy & Log Security Management for 5 Security Gateways	CPAP-SM205-PLC
Smart-1 205 Appliance with Log & Event Security Management Appliance for 5 Security Gateways	CPAP-SM205-EVNT
Smart-1 210¹	SKU
Smart-1 210 Appliance with Policy, Log & Event Security Management for 10 Security Gateways	CPAP-SM210-PRO
Smart-1 210 Appliance with Policy & Log Security Management for 10 Security Gateways	CPAP-SM210-PLC
Smart-1 210 Appliance with Log & Event Security Management Appliance for 10 Security Gateways	CPAP-SM210-EVNT
Smart-1 225¹	SKU
Smart-1 225 Appliance with Policy, Log & Event Security Management for 25 Security Gateways	CPAP-SM225-PRO
Smart-1 225 Appliance with Policy, Log & Event Security Management for 25 Security Gateways (Including SAN card)	CPAP-SM225-PRO-SAN
Smart-1 225 Appliance with Policy & Log Security Management for 25 Security Gateways	CPAP-SM225-PLC
Smart-1 225 Appliance with Policy & Log Security Management for 25 Security Gateways (Including SAN card)	CPAP-SM225-PLC-SAN
Smart-1 225 Appliance with Log & Event Security Management for 25 Security Gateways	CPAP-SM225-EVNT
Smart-1 225 Appliance with Log & Event Security Management for 25 Security Gateways (Including SAN card)	CPAP-SM225-EVNT-SAN
Smart-1 3050¹	SKU
Smart-1 3050 Appliance with Policy, Log & Event Security Management for 50 Security Gateways	CPAP-SM3050-PRO
Smart-1 3050 Appliance with Policy & Log Security Management for 50 Security Gateways	CPAP-SM3050-PLC
Smart-1 3050 Appliance with Policy & Log Security Management for 5 Security Domains	CPAP-SM3050-PLC-MD5
Smart-1 3050 Appliance with Policy & Log Security Management for 10 Security Domains with High Performance Package (including 128GB RAM, 2x10GBase-F SFP+ interface card, 2xSFP+ short-range transceivers)	CPAP-SM3050-PLC-MD10-HPP
Smart-1 3050 Appliance with Log & Event Security Management for 50 Security Gateways	CPAP-SM3050-EVNT
Smart-1 3050 Appliance with Log Security Management for 10 Security Domains	CPAP-SM3050-LOG-MD10
Smart-1 3150¹	SKU
Smart-1 3150 Appliance with Policy, Log & Event Security Management for 150 Security Gateways	CPAP-SM3150-PRO
Smart-1 3150 Appliance with Policy & Log Security Management for 5 Security Domains	CPAP-SM3150-PLC-MD5
Smart-1 3150 Appliance with Policy & Log Security Management for 10 Security Domains with High Performance Package (including 256GB RAM, 12x2TB hard drives, SAN interface card, 2x10GBase-F SFP+ interface card, 2xSFP+ short-range transceivers)	CPAP-SM3150-PLC-MD10-HPP
Smart-1 3150 Appliance with Log & Event Security Management for 150 Security Gateways	CPAP-SM3150-EVNT
Smart-1 3150 Appliance with Log Security Management for 10 Security Domains	CPAP-SM3150-LOG-MD10

¹ All appliances can be ordered with DC Power Supplies by adding –DC at the end of the SKU



Accessories

Interface Cards and Transceivers	SKU
4 Port 10/100/1000Base-T RJ45 interface card	CPAC-4-1C-L
8 Port 10/100/1000Base-T RJ45 interface card	CPAC-8-1C-L
2 Port 1000Base-F SFP interface card. Requires additional 1000Base SFP transceiver modules per interface port.	CPAC-2-1F
4 Port 1000Base-F SFP interface card. Requires additional 1000Base SFP transceiver modules per interface port.	CPAC-4-1F
SFP transceiver for 1G fiber ports - short range (1000Base-SX) for CPAC-2-1F and CPAC-4-1F	CPAC-TR-1SX
SFP transceiver for 1G fiber ports - long range (1000Base-LX) for CPAC-2-1F and CPAC-4-1F	CPAC-TR-1LX
2 Port 10GBase-F SFP+ interface card. Requires an additional 10GBase SFP+ transceiver per interface port.	CPAC-2-10F
4 Port 10GBase-F SFP+ interface card. Requires an additional 10GBase SFP+ transceiver per interface port.	CPAC-4-10F
SFP+ transceiver for 10G fiber Ports - short range (10GBase-SR) for CPAC-2-10F and CPAC-4-10F	CPAC-TR-10SR
SFP+ transceiver for 10G fiber ports - long range (10GBase-LR) for CPAC-2-10F and CPAC-4-10F	CPAC-TR-10LR
Storage Interface (SAN) expansion card for Smart-1 3050/3150	CPAC-SAN-SM3050/3150
Hardware Expansions	SKU
Additional 16GB RAM (add-on) for Smart-1 225	CPAC-RAM16GB-SM225
Additional 32GB RAM (add-on) for Smart-1 3050	CPAC-RAM32GB-SM3050
Additional 64GB RAM (add-on) for Smart-1 3150	CPAC-RAM64GB-SM3150
128GB RAM (replacement) for Smart-1 3050	CPAC-RAM128GB-SM3050
256GB RAM (replacement) for Smart-1 3050/3150	CPAC-RAM256GB-SM3050/3150
2TB Hard Drive for Smart-1 225, 3050, 3150	CPAC-HDD-2TB-SM225/3050/3150
Spares and Replacements	SKU
Replacement parts kit for Smart-1 225 (including one Hard Disk Drive, one Power Supply, one Fan module)	CPAC-SPARE-SM225
Replacement parts kit for Smart-1 3050 (including one Hard Disk Drive, one Power Supply, one Fan module)	CPAC-SPARE-SM3050
Replacement parts kit for Smart-1 3150 (including one Hard Disk Drive, one Power Supply, one Fan module)	CPAC-SPARE-SM3150

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