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Cyberoam
A SOPHOS Company

Cyberoam Next-Generation Security for Enterprises

With enterprises experiencing newer trends like virtualization, application explosion, increasing use of Web Applications and BYOD, they ought to prepare for emerging security risks in their networks along with increasing concerns on insider threats, vanishing 'trust boundaries, compliance management and more. Growing businesses and rapidly expanding network horizons have lead to an increased demand for next-generation security, higher performance, easy security management and quick compliance, in enterprises. Cyberoam's next-generation security caters to the security anxiety and demand for advanced network security in enterprises today.

The Cyberoam Solution for Enterprise Security

Cyberoam is an award-winning global IT security company with a presence in more than 125 countries. With an array of globally acclaimed and certified products, Cyberoam offers reliable solutions for varied needs of enterprises, including network security, centralized security management and centralized visibility. Trusted by thousands of customers across the globe for its innovative products and technology, Cyberoam enjoys a proven track record of serving many well-known names in the enterprise segment across various industries.

Cyberoam's Enterprise Portfolio:

Network Security
Offers flexibility of hardware and virtual Next Generation Firewall appliances for security in physical as well as virtual enterprise networks

Centralized Security Management
Allows enterprises to manage multiple, dispersed Cyberoam installations across remote or branch offices

Centralized Visibility
Offers real-time visibility into user and network activities across the enterprise network

Training & Support
Enables faster resolution of issues with customer support and efficient deployment and management of Cyberoam solutions with trainings

CYBEROAM'S LAYER 8 IDENTITY-BASED SECURITY

Cyberoam's Layer 8 Technology treats User Identity as the 8th layer or the "human layer" in the network protocol stack. This allows enterprises to uniquely identify users, control user activities in the network, and enable policy-setting and reporting by username, even in dynamic IP environments like DHCP and Wi-Fi. Cyberoam's Layer 8 Technology adds speed to security in an enterprise network by offering instant visibility into the source of attacks by identifying victims/attackers by username, which allows proactive remediation of security incidents. With Layer 8 identification and controls, Cyberoam enables enterprises in security management, data protection, forensic analysis and compliance management.

L8	USER	
L7	Application	
L6	Presentation	ASCII, EBCDIC, ICA
L5	Session	L2TP, PPTP
L4	Transport	TCP, UDP
L3	Network	192.168.1.1
L2	Data Link	00-17-BB-8C-E3-E7
L1	Physical	

Cyberoam's Layer 8 Technology treats "User Identity" as the 8th Layer in the protocol stack

Cyberoam Next Generation Firewall (NGFW) offers security across Layer 2-Layer 8 using Identity-based policies

NETWORK SECURITY

Cyberoam's enterprise security integrates multiple security features on a single appliance to offer comprehensive network security. Cyberoam works at the network gateway and protects networks against application threats, vulnerabilities in web applications, BYOD challenges, data leakage over websites and applications, sophisticated blended attacks, malware, spam, spyware and other evolving external threats. With the flexibility of hardware as well as virtual NGFW appliances, Cyberoam protects both the physical and virtual enterprise networks.

Next-Generation security features on Cyberoam NGFW:

- Stateful Inspection Firewall
- Application Visibility & Control
- Web Application Firewall
- VPN (SSL VPN & IPSec)
- Intrusion Prevention System
- Anti-Virus & Anti-Spyware
- Anti-Spam
- Outbound Spam Protection
- Web Filtering
- Bandwidth Management
- 3G / 4G / WiMAX Connectivity *
- IM Archiving & Controls
- Multiple Link Management
- On-Appliance Reporting
- IPv6 Ready
- Wi-Fi Appliances *
- FleXi Ports*

** Features not available on virtual security appliances*

KEY HIGHLIGHTS:

- Sales, channel and customer presence across 125+ countries
- Industry leading R&D; 550+ employees globally
- Patent-pending Identity-based Management
- Recognized as a 'Network - Security Innovator' by SC Magazine
- World's 1st network security vendor with ISO 20000:2011 certified Global Customer Support Services

Cyberoam NG series - Next Generation Firewall (NGFW)

Cyberoam offers future-ready security to enterprises with its NG Series NGFW appliances, consisting of next-generation security features, to help them secure their networks against threats emerging from newer trends like device & application explosion, increasing use of web applications and more.

Gigabit Firewall Throughputs, also for Branch Offices

With NG series appliances offering gigabit firewall throughputs, enterprises get assured high performance security, even for their branch offices.

Security Appliances with Flexible Connectivity options

Cyberoam's fleXi Port NGFW appliances, available as part of its NG Series range, offer enterprises the network flexibility and configuration freedom with I/O slots that allow choice of Copper GbE and Fiber 1GbE/10GbE network connectivity.

Intelligent Firmware

Cyberoam OS

Integrated seamlessly with the hardware for network and crypto acceleration, CyberoamOS extracts the highest level of performance from a multi-core platform and offers minimum latency. It comes with Next-Generation security features to protect against newly evolving threats.

Extensible Security Architecture (ESA)

Cyberoam's Extensible Security Architecture helps enterprises tackle unknown threats of the future by offering the agility to prolong the life and performance of its NGFW appliances to support newer enterprise security features and enhancements.

NG Future-Ready Security.

Cyberoam NGFW Hardware Appliance Range:

CR NG Series
10iNG, 15wiNG, 15iNG, 25wiNG, 25iNG, 35wiNG, 35iNG, 50iNG, 100iNG, 200iNG, 300iNG, 500iNG-XP, 750iNG-XP, 1000iNG-XP, 1500iNG-XP, 2500iNG, 2500iNG-XP

CR ia Series
500ia, 750ia, 1000ia, 1500ia, 500ia-1F/10F / RP, 750ia-1F/10F, 1000ia-10F, 1500ia-10F

Key Features

Application Visibility & Control

- Industry-leading coverage for 2000+ key applications in enterprises
- Prioritizes applications based on combination of User, Time, Applications and Bandwidth
- Granular application controls with classification based on risk level, characteristics, technology
- Pro-active protection model eliminates the need for manual intervention by administrator to update policy for new applications

Layer 8 Technology for Identity-based Security

- Patent-pending Layer 8 technology penetrates through all security modules of Cyberoam NGFW, offering Identity-based controls over user authentication, service authorization and reporting (AAA)

Advanced Threat Protection

- Offers protection against newly evolving threats with Intrusion Prevention System, Gateway Anti-Virus/Anti-Spyware, Gateway Anti-Spam, and Web & Content Filtering features, offering security at par with best-of-breed solutions

Web Application Firewall (WAF)

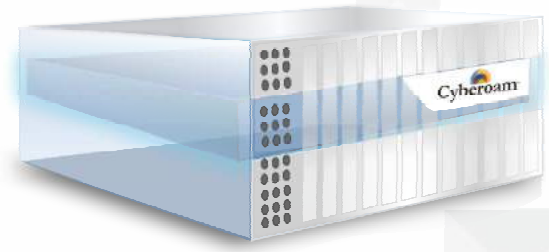
- Available as a subscription module on Cyberoam NGFW
- Protects websites and web-based applications against OWASP Top 10 web application attacks like SQL injection, cross-site scripting (XSS), URL parameter tampering, and more
- Follows a positive security model through Intuitive Website Flow Detector - automatically identifies and blocks all application layer attacks without relying on signature tables or pattern-matching techniques

Virtual Security

Designed to address the enterprise security needs for virtualized environments like virtual data centers, Enterprise 'Security in a box' and 'Office in a box', Cyberoam virtual security solutions offer:

1. Security for virtualized networks by scanning traffic within virtual networks; protecting hypervisor management console, hypervisor and Guest OS; and securing zero trust networks with virtual NGFW appliances
2. Comprehensive network security with multiple security features on a single virtual NGFW appliance
3. Ease of deployment and upgrade
4. One-click compliance reports and logging/reporting that helps in compliance management
5. Centralized Security Management of branch offices using physical/virtual NGFW appliances over a single interface of Cyberoam Central Console (CCC), available in both virtual and hardware forms
6. Centralized Visibility into network and user activities with logging and reporting offered by Cyberoam iView software

Cyberoam virtual security appliances support multiple virtualization platforms like VMware, Microsoft Hyper-V, KVM and Citrix XenServer.



Cyberoam virtual NGFW appliance range:

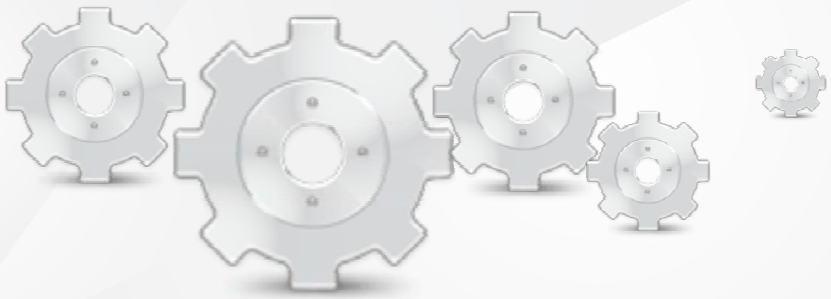
CRiV-1C, CRiV-2C, CRiV-4C, CRiV-8C, CRiV-12C

VPN

- Ensures secure remote access with IPSec VPN, LT2P, PPTP and SSL VPN over its NGFW appliances
- Threat-free Tunneling technology scans traffic for malware, intrusion attempts

Outbound Spam Protection

- Available as a subscription module on Cyberoam NGFW
- Protects from recurring incidents of outbound spam in enterprise networks, significantly reducing bandwidth consumption and optimizing network performance
- Recurrent Pattern Detection (RPD) technology offers real-time classification for fast detection and blocking of outbound spam



Cyberoam Central Console

Enterprises and MSSPs can centrally manage security across dispersed branch offices and clients using Cyberoam NGFW with Cyberoam Central Console (CCC), available as hardware and virtual appliances.

- Centrally push policies, security subscriptions and firmware/signature upgrades with change management for uniform policies and protection against zero hour threats.
- Meaningful grouping of security appliances based on clients, geography, security appliance model and more
- Create policy templates based on best practices for re-use while setting up security policies for new branch offices and customers
- Delegation of administrative rights based on user roles, enabling security against misuse of administrative privileges
- Timely notifications for alerts like reminders for security subscription expiry, threats count crossing a threshold, appliance connection status, VPN connection status change and more
- Enables leveraging existing Professional Services Automation (PSA) Tools, IT infrastructure monitoring and ticketing systems
- Integration with standalone Cyberoam iView allows auto-provisioning of managed appliances and automatically syncs CCC administrators in Cyberoam iView

CCC Appliance Range:

- **Hardware CCC NM Appliances**
  - CCC15NM, CCC50NM, CCC100NM, CCC200NM, CCC500NM
- **Hardware CCC Appliances**
  - CCC15, CCC50, CCC100, CCC200, CCC500, CCC1000
- **Virtual CCC Appliances**
  - CCCV15, CCCV50, CCCV100, CCCV200, CCCV500

Cyberoam iVIEW

Intelligent Logging & Reporting

Enterprises can get complete centralized real-time visibility into network and user activities with logs and reports offered by Cyberoam iView.

- 1200+ reports help with security management, compliance management, and forensic analysis
- Logs, reports and alerts across multiple devices, protocols and locations provide user and network activity information to identify security breaches, enabling quick action and minimizing network downtime
- One-click compliance reports on HIPAA, PCI DSS, GLBA, SOX and drill-down reports /alerts for security breach, data leakage helps to meet compliance needs
- Helps with forensic analysis by reconstructing the sequence of events of security breach with logs and reports, reducing cost of investigation and minimizing network downtime
- Compatibility with a wide range of devices including Proxy Firewalls, Custom Applications and any Syslog-compatible devices enables organizations to store logs and reports of multiple devices

Cyberoam iView Appliance Range:

- **Hardware appliances**
  - CR-iVU25NR, CR-iVU100NR, CR-iVU200NR
- **Software**

Training and Support

Pre-sales Support

Cyberoam's dedicated global pre-sales team offers security planning and migration assistance for Cyberoam deployment and implementation to enterprises

Post-Sales Support

Cyberoam's ISO 20000:2011 certified Global Support Team offers 24x7 or 8x5 support – as subscribed by the customers, over phone, email and chat.

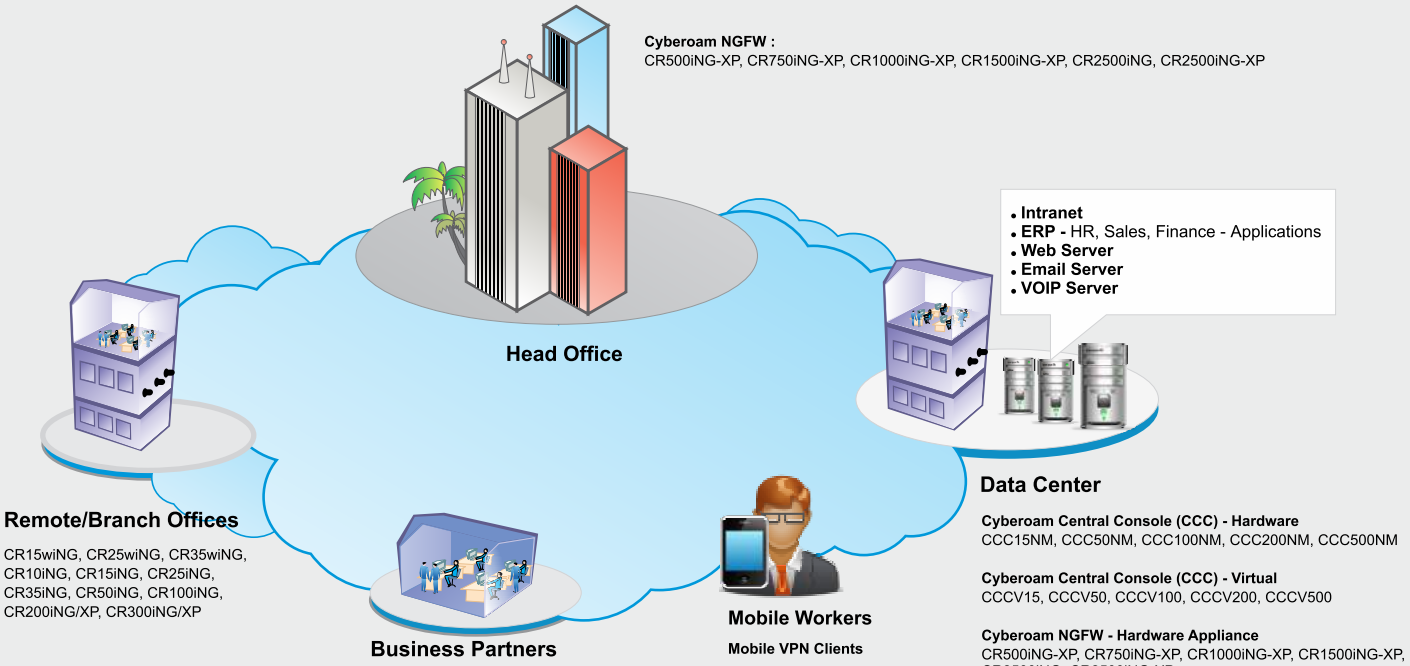
Training

Cyberoam offers trainings and product updates to its customers for efficient deployment, configuration and management of Cyberoam solutions.

Cyberoam Threat Research Labs

Cyberoam Threat Research Labs consists of a dedicated team of researchers that ensure detection and identification of security threats at early stages of propagation and protect Cyberoam customers against numerous zero day vulnerabilities and malware attacks. CTRL ensures appropriate security protection by continuously releasing suitable signatures, timely security upgrade and research reports.

Cyberoam Solutions for Enterprise Networks



Note :The above diagram shows multiple models for Cyberoam NGFW, CCC as appropriate for Head Office, Branch Offices, Data Center, Mobile Users, Business Partners. Enterprise may use any one or multiple models from Cyberoam Product line as appropriate.

Awards and Certifications

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