Comprehensive Network Security

for Small & Medium Offices

Cyberoam[®]

Unified Threat Management





Cyberoam Unified Threat Management appliances offer assured security, connectivity and productivity to small and medium enterprises (SMEs) by allowing user identity-based policy controls.

Cyberoam's User Layer 8 Technology treats user-identity as the 8th Layer or the HUMAN layer in the protocol stack. It attaches user identity to security, taking organizations a step ahead of conventional solutions that bind security to IP-addresses. This adds speed to an organization's security by offering instant visibility into the source of attacks by username rather than IP address - allowing immediate remediation to restore security or allowing proactive security. Layer 8 technology functions along with each of Cyberoam security features to allow creation of identity-based security policies.

Cyberoam's future-ready Extensible Security Architecture (ESA) offers an extensible platform that can grow with the future security needs of an organization without degrading system performance. ESA supports feature enhancements that can be developed rapidly and deployed with minimum efforts.



Cyberoam CR50ia

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

Cyberoam UTM offers security across Layer 2-Layer 8 using Identity-based policies

Cyberoam UTM features assure Security, Connectivity, Productivity •



Security

Network Security

- Firewall
- Intrusion Prevention System - Wireless security

Content Security

- Anti-Virus/Anti-Spyware
- Anti-Spam
- HTTPS/SSL Content Security

Administrative Security

- Next-Gen UI
- iView- Logging & Reporting

Connectivity

- **Business Continuity**
- Multiple Link Management
- High Availability

Network Availability

- VPN - 3G/WiMAX Connectivity
- Future-ready Connectivity

- "IPv6 Ready" Gold Logo

Productivity

Employee Productivity

- Content Filtering
- Instant Messaging Archiving & Controls

IT Resource Optimization

- Bandwidth Management
- Traffic Discoverv
- Application Layer 7 Management

Administrator Productivity

- Next-Gen UI

Interfaces

Copper GbE Ports
Configurable Internal/DMZ/WAN Ports
Console Ports (RJ45/DB9)
USB Ports
Hardware Bypass Segments

6 Yes

2 1*

System Performance**

Firewall throughput (UDP) (Mbps)	1000
Firewall throughput (TCP) (Mbps)	750
New sessions/second	8,000
Concurrent sessions	220,000
168-bit 3DES/AES throughput (Mbps)	60/90
WAF Protected Throughput (Mbps)	35
Anti-Virus throughput (Mbps)	150
IPS throughput (Mbps)	200
UTM throughput (Mbps)	130

Stateful Inspection Firewall

- Layer 8 (User Identity) Firewall Multiple Security Zones Access Control Criteria (ACC) User Identity, Source &
- Destination Zone, MAC and IP address, Service UTM policies IPS, Web Filtering, Application Filtering, Anti-Virus, Anti-Spam and Bandwidth Management
- Anti-Virus, Anti-Spam and Bandwidth N Layer 7 (Application) Control & Visibility Access Scheduling Policy based Source & Destination NAT H.323, SIP NAT Traversal

- B02.1q VLAN Support DoS & DDoS Attack prevention MAC & IP-MAC filtering and Spoof prevention

Gateway Anti-Virus & Anti-Spyware - Virus, Worm, Trojan Detection & Removal - Spyware, Malware, Phishing protection

- Automatic virus signature database update Scans HTTP, HTTPS, FTP, SMTP, POP3, IMAP, IM, VPN Tunnels
- Self Service Quarantine area Scan and deliver by file size

- Block by file types
- -Add disclaimer/signature

Gateway Anti-Spam

- Real-time Blacklist (RBL), MIME header check
 Filter based on message header, size, sender, recipient Filter based on message header, size, sender, rec Subject line tagging IP address Black list/White list Redirect Spam mails to dedicated email address Image-based Spam filtering using RPD Technology Zero hour Virus Outbreak Protection Self Service Quarantine area Spam Notification through Digest ID Remeticing head Open Efficience

- IP Reputation-based Spam filtering

- Intrusion Prevention System Signatures: Default (3000+), Custom

- IPS Policies: Multiple, Custom User-based policy creation Automatic real-time updates from CRProtect networks
- Protocol Anomaly Detection DDoS attack prevention

- Web Filtering Inbuilt Web Category Database URL, keyword, File type block Categories: Default(82+), Custom Protocols supported: HTTP, HTTPS Block Malware, Phishing, Pharming URLs Schedule-based access control Custom block messages per category.

- Custom block messages per category Block Java Applets, Cookies, Active X CIPA Compliant
- Data leakage control via HTTP, HTTPS upload
- **Application Filtering**
- Inbuilt Application Category Database
- Application Categories: e.g. Gaming, IM, P2P, Proxy : 11+
- Schedule-based access control
- Block P2P applications e.g. Skype Anonymous proxies e.g. Ultra surf

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- "Phone home" activities

Toll Free Numbers

- Keylogger Layer 7 (Applications) & Layer 8 (User Identity) Visibility

Web Application Firewall^{##} - Positive Protection model - Unique "Intuitive Website Flow Detector" technology - Protection against SQL Injections, Cross-site Scripting (XSS), Session Hijacking, URL Tampering, Cookie Poisoning - Support for HTTP 0.9/1.0/1.1 - Extensive Logging & Reporting - Back-end servers supported: 5

High Availability -Active-Active

- Stateful failover

-Active-Passive with State Synchronization

Administration & System Management

- Command Line Interface (Serial, SSH, Telnet)

- SNMP (v1, v2c, v3) - Multi-lingual support: Chinese, Hindi, French, Korean - Cyberoam Central Console (Optional) - NTP Support

Internal database
 -Active Directory Integration
 -Automatic Windows Single Sign On
 -External LDAP/RADIUS database integration
 -Thin Client support - Microsoft Windows Server 2003
 Terminal Services and Citrix XenApp
 DOA service Provide Server

- RSA securID support - External Authentication - Users and Administrators

- Syslog support - Log Viewer - IPS, Web filter, Anti Virus, Anti Spam,

1.7 x 16.8 x 10.3 4.3 x 42.7 x 26.2

5.3 kg, 11.68 lbs

100-240 VAC 90W

200

5 to 40 °C 0 to 70 °C

10 to 90%

beroam

Unified Threat Management

Logging/Monitoring - Graphical real-time and historical monitoring - Email notification of reports, viruses and attacks

Authentication, System and Admin Events

On-Appliance Cyberoam-iView Reporting - Integrated Web-based Reporting tool -

- Multiple Dashboards - Username, Host, Email ID specific Monitoring

Reports - Security, Virus, Spam, Traffic, Policy violations, VPN, Search Engine keywords
 Multi-format reports - tabular, graphical
 Exportable formats - PDF, Excel
 Automated Report Scheduling

- Inter-operability with major IPSec VPN Gateways - Supported platforms: Windows 2000, WinXP 32/64-bit, Windows 2003 32-bit, Windows 2008 32/64-bit, Windows Vista 32/64-bit, Windows 7 RC1 32/64-bit

- Alerts on appliance status change

Web-based configuration wizard
 Role-based access control

- Firmware Upgrades via Web UI - Web 2.0 compliant UI (HTTPS) - UI Color Styler

User Authentication

- User/MAC Binding - Multiple Authentication servers

Cyberoam-iView - 1000+ drilldown reports - 45+ Compliance Reports

IPSec VPN Client***

- "IPv6 Ready" Gold Logo

Input Voltage Consumption Total Heat Dissipation (BTU)

Relative Humidity (Non condensing)

Certification

Compliance

Dimensions H x W x D (inches)

H x W x D (cms)

Environmental Operating Temperature Storage Temperature

CE FCC

Weiaht

Power

Dashboard

- Historical and Real-time reports

- Import Connection configuration

- ICSA Firewall - Corporate - Checkmark UTM Level 5 Certification - VPNC - Basic and AES interoperability

- Virtual Private Network IPSec, L2TP, PPTP Encryption 3DES, DES, AES, Twofish, Blowfish,
 - Serpent
- Hash Algorithms MD5, SHA-1 Authentication Preshared key, Digital certificates
- IPSec NAT Traversal
- Dead peer detection and PFS support Diffie Hellman Groups 1,2,5,14,15,16
- External Certificate Authority support
- Export Road Warrior connection configuration Domain name support for tunnel end points VPN connection redundancy
- Overlapping Network support Hub & Spoke VPN support

- SSL VPN -TCP & UDP Tunneling Authentication Active Directory, LDAP, RADIUS, Cyberoam
- Multi-layered Client Authentication Certificate,

- Working Standard Control Automatication Certificate, Username/Password
 User & Group policy enforcement
 Network access Split and Full tunneling
 Browser-based (Portal) Access Clientless access
 Lightweight SSL VPN Tunneling Client
 Granular access control to all the Enterprise Network resources
- Administrative controls Session timeout, Dead Peer Detection, Portal customization
- TCP- based Application Access HTTP, HTTPS, RDP, TELNET. SSH

- Guaranteed & Burstable bandwidth policy - Application & User Identity based Traffic Discovery

-Access time restriction - Time and Data Quota restriction - Schedule based Committed and Burstable Bandwidth

- Failover - Automated Failover/Failback, Multi-WAN failover, 3GModem failover - WRR based load balancing - Policy routing based on Application and User

**Antivirus, IPS and UTM performance is measured based on HTTP traffic as per RFC 3511 guidelines. Actual performance may vary depending on the real network traffic environments.

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- Protocology obtains a based of Application and OSPF
 - IP Address Assignment - Static, PPPoE, L2TP, PPTP &
 DDNS Client, Proxy ARP, DHCP server, DHCP relay
 - Support for HTTP Proxy
 Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast

Instant Messaging (IM) Management - Yahoo and Windows Live Messenger - Virus Scanning for IM traffic - Allow/Block Login - Allow/Block File Transfer Mow/Block Websace

- Allow/Block Webcam Allow/Block one-to-one/group chat
- Content-based blocking
- IM activities Log Archive files transferred
- Custom Alerts

Wireless WAN

Management

Networking

Forwarding

***Additional Purchase Required. "3G card and modem details are not included. See http://www.cyberoam.com for supported USB devices.

- USB port 3G and Wimax Support*

- Multi WAN bandwidth reporting

- Category-based bandwidth restriction

- Schedule based P2P and IM Controls

Parent Proxy support with FQDN
"IPv6 Ready" Gold Logo

*If Enabled, will bypass traffic only in case of power failure. "Subscription available in all the Models of CR50ia & above. For further details refer to WAF Datasheet.

User Identity and Group Based Controls

- Primary WAN link - WAN Backup link

Bandwidth Management - Application and User Identity based Bandwidth