

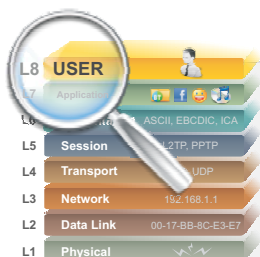


Cyberoam Unified Threat Management appliances offer assured security, connectivity and productivity to organizations by allowing user identity-based policy controls.

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. Layer 8 technology functions along with each of Cyberoam security features to allow creation of identity-based security policies.

Cyberoam's multi-core technology allows parallel processing of all its security features – ensuring security without compromising performance. Its future-ready Extensible Security Architecture (ESA) offers a security 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.

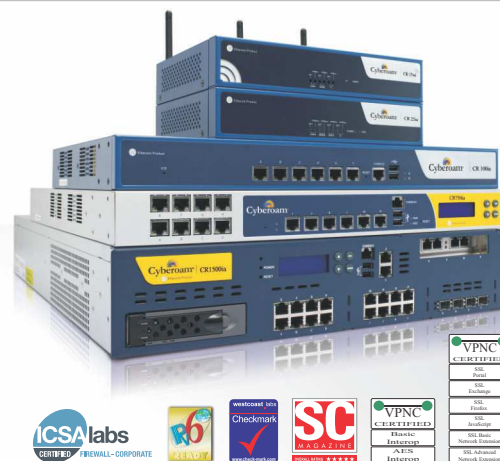
User Identity-based Security Policy Controls



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 assures Security, Connectivity, Productivity



CR Series : 15i, 25ia, 35ia, 50ia, 100ia, 200i, 300i, 500ia, 750ia, 1000ia, 1500ia

CR Wireless series : 15wi, 25wi, 35wi

Feature Specifications

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
- Layer 7 (Application) Control & Visibility
- Access Scheduling
- Policy based Source & Destination NAT
- H.323, SIP NAT Traversal
- 802.1q 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
- Customize individual user scanning
- Self Service Quarantine area¹
- 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
- Subject line tagging
- Redirect spam mails to dedicated email address
- Image-spam filtering using RPD Technology
- Zero hour Virus Outbreak Protection
- Self Service Quarantine area¹
- IP address Black list/White list
- Spam Notification through Digest²
- 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
- Web Categories: Default(82+), Custom
- Protocols supported: HTTP, HTTPS
- Block Malware, Phishing, Pharming URLs
- Category-based Bandwidth allocation and prioritization
- Block Java Applets, Cookies, Active X
- CIPA Compliant
- Data leakage control via HTTP, HTTPS upload
- Schedule-based access control
- Custom block messages per category

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
 - "Phone home" activities
 - 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 to 200 servers

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, 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

Instant Messaging (IM) Management

- Yahoo and Windows Live Messenger
- Virus Scanning for IM traffic
- Allow/Block: Login, File Transfer, Webcam, One-to-one/group Chat
- Content-based blocking
- IM activities Log
- Archive files transferred
- Custom Alerts

Wireless WAN

- USB port 3G and WiMax Support^{*}
- Primary WAN link
- WAN Backup link

Bandwidth Management

- Application and User Identity based Bandwidth Management
- Category-based Bandwidth restriction
- Guaranteed & Burstable bandwidth policy
- Application & User Identity based Traffic Discovery[‡]
- Multi WAN bandwidth reporting

User Identity & Group Based Controls

- Access time restriction
- Time and Data Quota restriction, P2P and IM Controls
- Schedule based Committed and Burstable Bandwidth

Networking

- Automated Failover/Failback, Multi-WAN / 3G Modem failover
- WRR based Load balancing
- Policy routing based on Application and User
- IP Address Assignment - Static, PPPoE, L2TP, PPTP & DDNS
- Client, Proxy ARP, DHCP server, DHCP relay
- Supports HTTP Proxy, Parent Proxy with FQDN
- Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast Forwarding

High Availability[§]

- Active-Active
- Active-Passive with state synchronization
- Stateful Failover
- Alerts on Appliance Status change

Administration & System Management

- Web-based configuration wizard
- Role-based Access control
- Firmware Upgrades via Web UI
- Web 2.0 compliant UI (HTTPS)
- UI Color Styler
- Command line interface (Serial, SSH, Telnet)
- SNMP (v1, v2c, v3)
- Multi-lingual support: Chinese, Hindi, French, Korean
- Cyberoam Central Console (Optional)
- NTP Support

User Authentication

- 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
- RSA SecurID support
- External Authentication - Users and Administrators
- User/MAC Binding
- Multiple Authentication servers

Logging / Monitoring

- Graphical real-time and historical Monitoring
- Email notification of reports, viruses and attacks
- Syslog support
- Log Viewer - IPS, Web filter, Anti-Virus, Anti-Spam, Authentication, System and Admin Events

On-ApplianceCyberoam i-View Reporting[¶]

- Integrated Web-based Reporting tool - Cyberoam-iView
- 1000+ drilldown reports
- 45+ Compliance reports
- Historical and Real-time reports
- Multiple Dashboards
- Username, Host, Email ID specific Monitoring Dashboard
- Reports - Security, Spam, Virus, Traffic, Policy violations, VPN, Search Engine keywords
- Multi-format reports - tabular, graphical
- Exportable formats - PDF, Excel
- Automated Report Scheduling

IPSec VPN Client[‡]

- 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
- Import Connection configuration

Compliance

- CE
- FCC

Certification

- ICSA Firewall - Corporate
- Checkmark UTM Level 5 Certification
- VPNC - Basic and AES interoperability
- IPv6 Ready Gold Logo

^{1,2,3,4,5,6} Available in all the Models except CR15i

^{*} 3G card and modem details are not included. See <http://www.cyberoam.com> for supported USB devices.

[†] Not Available in Wireless Series

[‡] Additional Purchase Required

[§] Subscription available in all the Models of CR50ia & above

Specifications	15i	15wi	25ia	25wi	35ia	35wi	50ia	100ia
Interfaces								
10/100 Ethernet Ports	3	3	-	-	-	-	-	-
Copper GbE Ports	-	-	4	4	4	4	6	6
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Console Ports (RJ45/DB9)	1	1	1	1	1	1	1	1
SFP (Mini GBIC) Ports	-	-	-	-	-	-	-	-
USB Ports	1	1	1	1	1	1	2	2
Hardware Bypass Segments	-	-	-	-	-	-	1 [#]	1 [#]
System Performance*								
Firewall Throughput (UDP) (Mbps)	150	150	450	450	750	750	1,000	1,250
Firewall Throughput (TCP) (Mbps)	90	90	225	225	500	500	750	1,000
New sessions/second	2,000	2,000	3,500	3,500	5,500	5,500	8,000	10,000
Concurrent sessions	30,000	30,000	130,000	130,000	175,000	175,000	220,000	400,000
3DES/AES Throughput (Mbps)	15/25	15/25	30/75	30/75	50/80	50/80	60/90	80/100
WAF Protected Throughput (Mbps)	-	-	-	-	-	-	35	60
Antivirus Throughput (Mbps)	20	20	65	65	125	125	150	200
IPS Throughput (Mbps)	40	40	70	70	150	150	200	300
UTM Throughput (Mbps)	15	15	50	50	90	90	130	160
Authenticated Users/Nodes	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Built-in Wireless LAN (Only for Wi series)								
Wireless Standards	IEEE 802.11 a/b/g/n (WEP, WPA, WPA2, 802.11i , TKIP, AES, PSK)							
Antenna	Detachable 2x3 MIMO							
Access Points	Up to 8 bssid							
Transmit Power (EIRP)	11n HT40 : +17dBm, 11b CCK: +19dBm, 11g OFDM: +17dBm							
Receiver Sensitivity	-65dBm at 300Mbps, -70dBm at 54Mbps, -86dBm at 11Mbps							
Frequency Range	USA (FCC): 2.412GHz ~ 2.462GHz, Europe (ETSI): 2.412GHz ~ 2.472 GHz, Japan (TELEC): 2.412GHz ~ 2.483GHz							
Number of Selectable Channels	USA (FCC) - 11 channels, EU (ETSI) / Japan (TELEC) - 13 channels							
Data Rate	802.11a/g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps, 802.11b: 1, 2, 5.5, 11 Mbps, 802.11n: up to 300 Mbps							
Dimensions								
H x W x D (inches)	1.7 x 6 x 9.1	1.7 x 6 x 9.1	1.7 x 6 x 9.1	1.7 x 6 x 9.1	1.7 x 6 x 9.1	1.7 x 6 x 9.1	1.7 x 16.8 x 10.3	1.7 x 16.8 x 10.3
H x W x D (cms)	4.4 x 15.3 x 23.2	4.4 x 15.3 x 23.2	4.4 x 15.3 x 23.2	4.4 x 15.3 x 23.2	4.4 x 15.3 x 23.2	4.4 x 15.3 x 23.2	4.3 x 42.7 x 26.2	4.3 x 42.7 x 26.2
Appliance Weight	1.5 kg, 3.307 lbs	1.5 kg, 3.307 lbs	2.3 kg, 5.07 lbs	2.3 kg, 5.07 lbs	2.3 kg, 5.07 lbs	2.3 kg, 5.07 lbs	5.3 kg, 11.68 lbs	5.3 kg, 11.68 lbs
Power								
Input Voltage	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC	100-240 VAC
Consumption	13.2 W	13.2 W	33.5 W	33.5 W	47.8 W	47.8 W	90 W	90 W
Total Heat Dissipation (BTU)	45	45	114	114	163	163	200	200
Redundant Power Supply	-	-	-	-	-	-	-	-

Specifications	200i	300i	500ia/1F/10F	500ia-RP	750ia/1F/10F	1000ia/10F	1500ia/10F
Interfaces							
Copper GbE Ports	6	6	10 / 6 / 6	10	14 / 6 / 6	12 / 4	22 / 14
1GbE SFPMini Ports	-	-	- / 4 / -	-	- / 4 / -	4 / 4	4 / 4
10GbE SFPMini Ports	-	-	- / - / 2	-	- / - / 2	- / 2	- / 2
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Console Ports (Rj45)	1	1	1	1	1	1	1
USB Ports	2	2	2	2	2	2	2
Hardware Bypass Segments	1 [#]	1 [#]	2 [#]	2 [#]	2 [#]	2 [#]	2 [#]
System Performance*							
Firewall Throughput (UDP) (Mbps)	2,200	2,600	5,000	5,000	9,000	10,000	12,000
Firewall Throughput (TCP) (Mbps)	1,500	1,800	3,000	3,000	6,500	8,000	10,000
New sessions/second	12,000	15,000	25,000	25,000	80,000	85,000	100,000
Concurrent sessions	450,000	500,000	700,000	700,000	1,000,000	1,500,000	2,000,000
3DES/AES Throughput (Mbps)	150/180	180/200	325/400	325/400	500/750	900/1,200	1,200/1,500
WAF Protected Throughput (Mbps)	100	150	300	300	350	425	500
Antivirus Throughput (Mbps)	280	450	750	750	2,000	2,250	2,750
IPS Throughput (Mbps)	750	850	1,000	1,000	1,600	2,500	3,500
UTM Throughput (Mbps)	250	350	550	550	1,350	1,450	1,800
Authenticated Users/Nodes	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Dimensions							
H x W x D (inches)	— 1.7 x 17.3 x 14.6 —		1.72 x 17.25 x 11.50	— 1.72 x 17.44 x 15.98 —		1.77 x 17.25 x 18.30	3.54 x 17.5 x 23.23
H x W x D (cms)	— 4.3 x 43.9 x 37.1 —		4.4 x 43.8 x 29.21	— 4.4 x 44.3 x 40.6 —		4.5 x 43.8 x 46.5	9 x 44.5 x 59
Appliance Weight	— 6.5 kg, 14.33 lbs —		5.54 kg, 12.21 lbs	— 6.04 kg, 13.31lbs —		13.5 kg, 29.76 lbs	18.5 kg, 40.78 lbs
Power							
Input Voltage	—— 100-240 VAC ——		100-240 VAC	100-240 VAC	100-240 VAC	90-260 VAC	90-260 VAC
Consumption	62.7 W	72.1W	128 W	185 W	185 W	129 W	258 W
Total Heat Dissipation (BTU)	—— 324 ——		375	475	475	626	881
Redundant Power Supply	-		-/Yes/Yes	Yes	Yes	Yes	Yes

Environmental Conditions: Operating Temperature 0 to 40 °C, Storage Temperature - 25 to 75 °C, Relative Humidity (Non condensing) 10 to 90%

*If Enabled, will bypass traffic only in case of Power failure.

*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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