



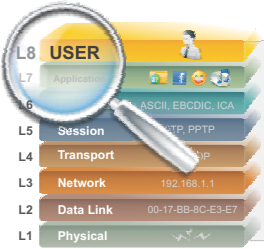
Cyberoam Unified Threat Management appliances offer assured security, connectivity and productivity to organizations by allowing user identity-based policy controls.

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, 1000i, 1500i

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 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, FTP, SMTP, POP3, IMAP, IM, VPN tunnels
- Customize individual user scanning
- 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
- Subject line tagging
- Redirect spam mails to dedicated email address
- Image-spam filtering using RPD Technology
- Zero hour Virus Outbreak Protection
- Self Service Quarantine area
- IP address Black list/White list
- Spam Notification through Digest
- 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: 11+ e.g. Gaming, IM, P2P, Proxy
- 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

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 VPN³

- 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
- Allow/Block File Transfer
- Allow/Block Webcam
- Allow/Block 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 Discovery⁴
- Multi WAN bandwidth reporting

User Identity & Group Based Controls

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

Networking

- Failover - Automated Failover/Failback, Multi-WAN failover, 3GModem 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
- Support for HTTP Proxy
- Dynamic Routing: RIP v1& v2, OSPF, BGP, MulticastForwarding
- Parent Proxy support with FQDN
- IPv6 Ready Gold Logo

High Availability⁵

- 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-Appliance Cyberoam i-View Reporting⁶

- Integrated Web-based Reporting tool - Cyberoam-View
- 1000+ drilldown reports
- 45+ Compliance reports
- Historical and Real-time reports
- Multiple Dashboards
- Username, Host, Email ID specific Monitoring Dashboard
- Reports - Security, Spam, Virus, Spam, 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
³3G card and modem details are not included.
 See <http://www.cyberoam.com> for supported USB devices.

Specifications	15i	25ia	35ia	50ia	100ia	200i
Interfaces						
10/100 Ethernet Ports	3	-	-	-	-	-
10/100/1000 GBE Ports	-	4	4	6	6	6
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes	Yes	Yes
Console Ports (RJ45/DB9)	1	1	1	1	1	1
SFP (Mini GBIC) Ports	-	-	-	-	-	-
USB Ports	1	1	1	2	2	2
Hardware Bypass Segments	-	-	-	1*	1*	1*
System Performance*						
Firewall Throughput (UDP) (Mbps)	150	450	750	1,000	1,250	2,200
Firewall Throughput (TCP) (Mbps)	90	225	500	750	1,000	1,500
New sessions/second	2,000	3,500	5,500	8,000	10,000	12,000
Concurrent sessions	30,000	130,000	175,000	220,000	400,000	450,000
3DES/AES throughput (Mbps)	15/25	30/75	50/80	60/90	80/100	150/180
Antivirus throughput (Mbps)	20	65	125	150	200	280
IPS throughput (Mbps)	40	70	150	200	300	750
UTM throughput (Mbps)	15	50	90	130	160	250
Authenticated Users/Nodes	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Dimensions						
H x W x D (inches)	1.7 x 6 x 9.1	1.7 x 9.1 x 6	1.7 x 9.1 x 6	1.7 x 16.8 x 10.3	1.7 x 16.8 x 10.3	1.7 x 17.3 x 14.6
H x W x D (cms)	4.4 x 15.3 x 23.2	4.4 x 23.2 x 15.3	4.4 x 23.2 x 15.3	4.3 x 42.7 x 26.2	4.3 x 42.7 x 26.2	4.3 x 43.9 x 37.1
Appliance Weight	1.5 kg, 3.307 lbs	2.3 kg, 5.1 lbs	2.3 kg, 5.1 lbs	5.3 kg, 11.68 lbs	5.3 kg, 11.68 lbs	6.5 kg, 14.33 lbs
Power						
Input Voltage	100-240VAC	100-240VAC	100-240VAC	115-230VAC	115-230VAC	115-230VAC
Consumption	13.2W	33.5W	47.8W	90W	90W	41.5W
Total Heat Dissipation (BTU)	45	114	163	200	200	324
Redundant Power Supply	-	-	-	-	-	-
Environmental						
Operating Temperature	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C
Storage Temperature	-20 to 75 °C	0 to 70 °C	0 to 70 °C	-20 to 80 °C	-20 to 80 °C	-20 to 80 °C
Relative Humidity (Non condensing)	10 to 95%	-20 to 75%	-20 to 75%	0 to 90%	0 to 90%	0 to 90%

Specifications	300i	500ia	1000i	1500i
Interfaces				
10/100 Ethernet Ports	-	-	-	-
10/100/1000 GBE Ports	6	10	10	10
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes
Console Ports (RJ45/DB9)	1	1	1	1
SFP (Mini GBIC) Ports	-	-	2	2
USB Ports	2	2	2	2
Hardware Bypass Segments	1*	2	2	2
System Performance*				
Firewall Throughput (UDP) (Mbps)	2,600	5,000	6,500	7,500
Firewall Throughput (TCP) (Mbps)	1,800	3,000	3,500	6,000
New sessions/second	15,000	25,000	25,000	40,000
Concurrent sessions	500,000	700,000	750,000	1,000,000
3DES/AES throughput (Mbps)	180/200	325/400	400/500	600/750
Antivirus throughput (Mbps)	450	750	700	900
IPS throughput (Mbps)	850	1000	1,200	2500
UTM throughput (Mbps)	350	550	600	750
Authenticated Users/Nodes	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	3.46 x 16.7 x 20.9	3.46 x 16.7 x 20.9
H x W x D (cms)	4.3 x 43.9 x 37.1	4.4 x 43.8 x 29.21	8.8 x 42.4 x 53.1	8.8 x 42.4 x 53.1
Appliance Weight	6.5 kg, 14.33 lbs	5.54 kg, 12.118 lbs	15.2 kg, 33.51 lbs	15.2 kg, 33.51 lbs
Power				
Input Voltage	115-230VAC	100-240VAC	90-264VAC	90-264VAC
Consumption	41.5W	128W	210W	210W
Total Heat Dissipation (BTU)	324	375	718	718
Redundant Power Supply	-	-	Yes	Yes
Environmental				
Operating Temperature	0 to 40 °C	5 to 40 °C	0 to 40 °C	0 to 40 °C
Storage Temperature	-20 to 80 °C	-20 to 70 °C	-20 to 80 °C	-20 to 80 °C
Relative Humidity (Non condensing)	0 to 90%	0 to 90%	10 to 90%	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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 Elitecore Product