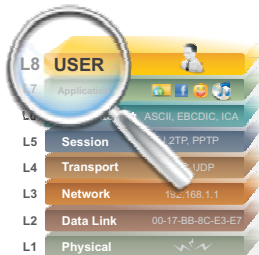Cyberoam Unified Threat Management appliances offer assured security, connectivity and productivity to organizations by allowing user identity-based policy controls.

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

L8	USER
7	Application
L6	ASCII, EBCDIC, ICA
L5	Session	2TP, PPTP
L4	Transport	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 UTM offers security across Layer 2-Layer 8 using Identity-based policies

Cyberoam assures Security, Connectivity, Productivity

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 area[1]
- 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[1]
- IP address Black list/White list
- Spam Notification through Digest[2]
- 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

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[3]
- 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 Discovery[4]
- 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, 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
- Support for HTTP Proxy
- Dynamic Routing: RIP v1& v2, OSPF, BGP, Multicast Forwarding
- Parent Proxy support with FQDN
- IPv6 Ready Gold Logo

High Availability[5]
- 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[6]
- 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[7]
- 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.
5 Not Available in Wireless Series
7 Additional Purchase Required

Specifications	15wi	25wi	35wi	15i	25ia	35ia	50ia
Interfaces							
10/100 Ethernet Ports	3	-	-	3	-	-	-
10/100/1000 GBE Ports	-	4	4	-	4	4	6
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Console Ports (RJ45)	1	1	1	1	1	1	1
SFP (Mini GBIC) Ports	-	-	-	-	-	-	-
USB Ports	1	1	1	1	1	1	2
Hardware Bypass Segments	-	-	-	-	-	-	1#
System Performance*							
Firewall Throughput (UDP) (Mbps)	150	450	750	150	450	750	1,000
Firewall Throughput (TCP) (Mbps)	90	225	500	90	225	500	750
New sessions/second	2,000	3,500	5,500	2,000	3,500	5,500	8,000
Concurrent sessions	30,000	130,000	175,000	30,000	130,000	175,000	220,000
3DES/AES Throughput (Mbps)	15/25	30/75	50/80	15/25	30/75	50/80	60/90
Antivirus Throughput (Mbps)	20	65	125	20	65	125	150
IPS Throughput (Mbps)	40	70	150	40	70	150	200
UTM Throughput (Mbps)	15	50	90	15	50	90	130
Authenticated Users/Nodes	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Built-in Wireless LAN							
Wireless Standards	IEEE 802.11 n/b/g (WEP, WPA, WPA2, 802.11i , TKIP, AES, PSK, 802.1x EAP)						
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	802.11n: up to 300Mbps, 802.11b: 1, 2, 5,5, 11Mbps, 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps						
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
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
Appliance Weight	1.5 kg, 3.307 lbs	2.3 kg, 5.07 lbs	2.3 kg, 5.07 lbs	1.5 kg, 3.307 lbs	2.3 kg, 5.07 lbs	2.3 kg, 5.07 lbs	5.3 kg, 11.68 lbs
Power							
Input Voltage	100-240VAC	100-240VAC	100-240VAC	100-240VAC	100-240VAC	100-240VAC	100-240VAC
Consumption	13.2W	33.5W	47.8W	13.2W	33.5W	47.8W	90W
Total Heat Dissipation (BTU)	45	114	163	45	114	163	200
Redundant Power Supply	-	-	-	-	-	-	-
Environmental	Operating Temperature - 5 to 40 °C, Storage Temperature - 0 to 70 °C, Relative Humidity (Non condensing) - 10 to 90%						

(Built-in Wireless LAN marked "Not Applicable" for 15i, 25ia, 35ia, 50ia columns)

Specifications	100ia	200i	300i	500ia	750ia	1000ia	1500ia
Interfaces							
10/100 Ethernet Ports	-	-	-	-	-	-	-
10/100/1000 GBE Ports	6	6	6	10	14	12	22
Configurable Internal/DMZ/WAN Ports	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Console Ports (RJ45)	1	1	1	1	1	1	1
SFP (Mini GBIC) Ports	-	-	-	-	-	4	4
USB Ports	2	2	2	2	2	2	2
Hardware Bypass Segments	1#	1#	1#	2	2	2	2
System Performance*							
Firewall Throughput (UDP) (Mbps)	1,250	2,200	2,600	5,000	6,000	7,500	10,000
Firewall Throughput (TCP) (Mbps)	1,000	1,500	1,800	3,000	4,500	5,500	7,500
New sessions/second	10,000	12,000	15,000	25,000	35,000	50,000	75,000
Concurrent sessions	400,000	450,000	500,000	700,000	900,000	1,200,000	1,500,000
3DES/AES Throughput (Mbps)	80/100	150/180	180/200	325/400	500/750	900/1200	1200/1500
Antivirus Throughput (Mbps)	200	280	450	750	900	1,250	1,550
IPS Throughput (Mbps)	300	750	850	1000	1,250	2,000	3,000
UTM Throughput (Mbps)	160	250	350	550	650	800	1,200
Authenticated Users/Nodes	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
Dimensions							
H x W x D (inches)	1.7 x 16.8 x 10.3	1.7 x 17.3 x 14.6	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 42.7 x 26.2	4.3 x 43.9 x 37.1	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	5.3 kg, 11.68 lbs	6.5 kg, 14.33 lbs	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	100-240VAC	100-240VAC	100-240VAC	100-240VAC	100-240VAC	90-260VAC	90-260VAC
Consumption	90W	62.7W	72.1W	128W	185W	129W	258W
Total Heat Dissipation (BTU)	200	324	324	375	475	626	881
Redundant Power Supply	-	-	-	-	Yes	Yes	Yes
Environmental	Operating Temperature - 5 to 40 °C, Storage Temperature - 0 to 70 °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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Cyberoam®
Unified Threat Management

Elitecore Product