Cyberoam CR1000i

Comprehensive Network Security for Large Enterprises

Cyberoam CR1000i is an identity-based security appliance that delivers real-time network protection against evolving Internet threats to large enterprises through unique user based policies.

Cyberoam CR1000i delivers comprehensive protection to large enterprises from blended threats like malware, spam, phishing, and pharming attacks. Cyberoam's unique identity-based security protects users from internal threats that lead to data theft and loss. CR1000i delivers such comprehensive protection with Stateful Inspection Firewall, VPN, Gateway Anti-Virus and Anti-Spyware, Gateway Anti-Spam, Intrusion Prevention System, Content Filtering, Bandwidth Management, Multiple Link Management, Comprehensive Reporting over a single platform and can be centrally managed using the Cyberoam Central Console. Integrated high availability provides protection against hardware failure to maximize network uptime and ensure uninterrupted access.

Identity-based Security in UTM

Cyberoam attaches the user identity to security, taking enterprises a step ahead of conventional solutions that bind security to IP-addresses. Cyberoam's identity-based security offers full business flexibility while ensuring complete security in any environment, including DHCP and Wi-Fi, by identifying individual users within the network-whether they are victims or attackers.

Features	Description	Benefits
Stateful Inspection Firewall (ICSA Labs Certified)	• Powerful stateful and deep packet inspection • Fusion technology blends all the components of Cyberoam into a single firewall policy • Prevents DoS & flooding attacks from internal & external sources • Identity-based access control for applications like P2P, IM	• Application layer protection • Provides the right balance of security, connectivity and productivity • Flexibility to set policies by user identity • High scalability
Virtual Private Network	• Threat Free Tunneling • Industry standard: IPSec, L2TP, PPTP VPN • VPN High Availability for IPSec and L2TP connections • Dual VPNC Certifications - Basic and AES Interop	• Safe and clean VPN traffic • Secure connectivity to branch offices and remote users • Low cost remote connectivity over the Internet • Effective failover management with defined connection priorities
Gateway Anti-Virus & Anti-Spyware	• Scans HTTP, FTP, IMAP, POP3 and SMTP traffic • Detects and removes viruses, worms and Trojans • Access to quarantined mails to key executives • Instant user identification in case of HTTP threats	• Complete protection of traffic over all protocols • High business flexibility • Protection of confidential information • Real-time security
Gateway Anti-Spam	• Scans SMTP, POP3 and IMAP traffic for spam • Detects, tags and quarantines spam mail • Enforces black and white lists • Virus Outbreak Protection • Content-agnostic spam protection including Image-spam using Recurrent Pattern Detection (RPD™) Technology	• Enhances productivity • High business flexibility • Protection from emerging threats • High scalability • Zero hour protection incase of virus outbreaks • Multi-language and Multi-format spam detection
Intrusion Prevention System - IPS	• Database of over 3000 signatures • Multi-policy capability with policies based on default & custom signatures, source and destination • Prevents intrusion attempts, DoS attacks, malicious code, backdoor activity and network-based blended threats • Blocks anonymous proxies with HTTP proxy signatures • Blocks "phone home" activities	• Low false positives • Real-time Security in dynamic environments like DHCP and Wi-Fi • Offers instant user-identification in case of internal threats • Apply IPS policies on users
Content & Application Filtering	• Automated web categorization engine blocks non-work sites based on millions of sites in over 82+ categories • URL Filtering for HTTP & HTTPS protocols • Hierarchy, department, group, user-based filtering policies • Time-based access to pre-defined sites • Prevents downloads of streaming media, gaming, tickers, ads • Supports CIPA compliance for schools and libraries	• Prevents exposure of network to external threats • Blocks access to restricted websites • Ensures regulatory compliance • Saves bandwidth and enhances productivity • Protects against legal liability • Ensures the safety and security of minors online • Enables schools to qualify for E-rate funding
Bandwidth Management	• Committed and burstable bandwidth by hierarchy, departments, groups & users	• Prevents bandwidth congestion • Prioritizes bandwidth for critical applications
Multiple Link Management	• Security over multiple ISP links using a single appliance • Load balances traffic based on weighted round robin distribution • Link Failover automatically shifts traffic from a failed link to a working link	• Easy to manage security over multiple links • Controls bandwidth congestion • Optimal use of low-cost links • Ensures business continuity
On-Appliance Reporting	• Complete Reporting Suite available on the Appliance • Traffic discovery offers real-time reports • Reporting by username	• Reduced TCO as no additional purchase required • Instant and complete visibility into patterns of usage • Instant identification of victims and attackers in internal network

Interfaces

10/100/1000 GBE Ports	10
Configurable Internal/DMZ/WAN Ports	Yes
Console Ports (RJ45)	1
SFP (Mini GBIC) Ports	2
USB ports	2

System Performance

Concurrent sessions	750,000
New sessions/second	25,000
Firewall throughput (Mbps)	3.5Gbps
168-bit Triple-DES/AES throughput (Mbps)	400/500
Antivirus throughput (Mbps)	700
IPS throughput (Mbps)	1200
UTM throughput (Mbps)	600

Stateful Inspection Firewall

Multiple Zones security with separate levels of access rule enforcement for each zone	Yes
Rules based on the combination of User, Source & Destination Zone and IP address and Service	Yes
Actions include policy based control for IPS, Content Filtering, Anti virus, Anti spam and Bandwidth Management	Yes
Access Scheduling	Yes
Policy based Source & Destination NAT	Yes
H.323 NAT Traversal	Yes
802.1q VLAN Support	Yes
DoS Attack prevention	Yes

Gateway Anti-Virus & Anti-Spyware

Virus, Worm, Trojan Detection & Removal	Yes
Spyware, Malware, Phishing protection	Yes
Automatic virus signature database update	Yes
Scans HTTP, FTP, SMTP, POP3, IMAP, VPN Tunnels	Yes
Customize individual user scanning	Yes
Self Service Quarantine area	Yes
Scan and deliver by file size	Yes
Block by file types	Yes
Add disclaimer/signature	Yes

Gateway Anti-Spam

Real-time Blacklist (RBL), MIME header check	Yes
Filter based on message header, size, sender, recipient	Yes
Subject line tagging	Yes
IP address blacklist/exempt list	Yes
Redirect spam mails to dedicated email address	Yes
Image-based spam filtering using RPD Technology	Yes
Zero hour Virus Outbreak Protection	Yes
Self Service Quarantine area	Yes

Intrusion Prevention System

Signatures: Default (3000+), Custom	Yes
IPS Policies: Multiple, Custom	Yes
User-based policy creation	Yes
Automatic real-time updates from CRProtect networks	Yes
Protocol Anomaly Detection	Yes
P2P applications signatures including Skype	Yes

Content & Application Filtering

Inbuilt Web Category Database	Yes
URL, keyword, File type block	Yes
Categories: Default(82+), Custom	Yes
HTTP Upload block	Yes
Protocols supported: HTTP, HTTPS	Yes
Block Malware, Phishing, Pharming URLs	Yes
Custom block messages per category	Yes
Block Java Applets, Cookies, Active X	Yes
CIPA Compliant	Yes

Virtual Private Network - VPN

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

Bandwidth Management

Application and User Identity based Bandwidth Management	Yes
Guaranteed & Burstable bandwidth policy	Yes
Application & User Identity based Traffic Discovery	Yes
Multi WAN bandwidth reporting	Yes

User Identity and Group Based Controls

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

Networking

Multiple Link Auto Failover	Yes
WRR based Load balancing	Yes
Policy routing based on Application and User	Yes
DDNS/PPPoE Client	Yes
Support for TCP MSS configuration	Yes
Support for HTTP Proxy Mode Deployment	Yes
Parent proxy support	Yes
Dynamic Routing: RIP v1& v2, OSPF, BGP	Yes
Multicast Forwarding	Yes

High Availability

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

Administration & System Management

Web-based configuration wizard	Yes
Role-based administration	Yes
Multiple administrators and user levels	Yes
Upgrades & changes via Web UI	Yes
Mutil-lingual support: Chinese, Hindi	Yes
Web UI (HTTPS)	Yes
Command line interface (Serial, SSH, Telnet)	Yes
SNMP (v1, v2c, v3)	Yes
Cyberoam Central Console	Yes
Version Rollback	Yes
NTP Server Support	Yes

User Authentication

Local database	Yes
Windows Domain Control & Active Directory Integration	Yes
Automatic Windows Single Sign On	Yes
External LDAP/RADIUS database Integration	Yes
User/MAC Binding	Yes

Logging/Monitoring

Internal HDD	Yes
Graphical real-time and historical monitoring	Yes
Email notification of reports, viruses and attacks	Yes
Syslog support	Yes

On-Appliance Reporting

Intrusion events reports	Yes
Policy violations reports	Yes
Web Category reports (user, content type)	Yes
Search Engine Keywords reporting	Yes
Data transfer reporting (By Host, Group & IP Address)	Yes
Virus reporting by User and IP Address	Yes
Compliance Reports	45+

VPN Client

IPSec compliant	Yes
Inter-operability with major IPSec VPN Gateways	Yes
Supported platforms: Windows 98, Me, NT4, 2000, XP, Vista	Yes
Import Connection configuration	Yes

Certification

IICSAFirewall - Corporate	Yes
VPNC - Basic and AES interoperability	Yes
Checkmark UTM Level 5 Certification	Yes

Compliance

CE	Yes
FCC	Yes

Dimensions

H x W x D (inches)	3.46 x 16.7 x 20.9
H x W x D (cms)	8.8 x 42.4 x 53.1
Weight	15.2 kg, 33.51 lbs

Power

Input Voltage	90-264 VAC
Consumption	210W
Total Heat Dissipation (BTU)	718

Environmental

Operating Temperature	0 to 40 °C
Storage Temperature	-20 to 80 °C
Relative Humidity (Non condensing)	10 to 90%
Cooling System - Fans	7

Cyberoam®
Unified Threat Management