# UTM Content Security Gateway

The innovation of the Internet has created a tremendous worldwide opportunities for e-business and information sharing, however, it also brings network security problems. The request of security becomes the primary concern for the enterprises. To fulfill the demand, PLANET introduces the UTM Content Security Gateway CS-2000, a special designed security gateway to support the enterprises build up the network security protection. The CS-2000 adopts Heuristics Analysis to filter spam and virus mails, and its auto-training system can increase the identify rate of spam. The built-in 80GB Hard Disk can store the spam mail in quarantine. The Anti-virus application has dual virus scan engines - Clam and Sophos to detect viruses, worms and other threats from E-mails and Internet. It also offers the mail report by Daily, Weekly, Monthly and Yearly and helps the administrators monitor the mail status easily.

Besides filtering spam and virus mail, the CS-2000 features the IDP and firewall functions to defense hackers and blaster attacks from Internet or Intranet. The complete functions in one device provide enterprises security solutions and the secure environment better than ever.

The CS-2000 supports fully security features including Content Blocking to block specific URL, Scripts, IM/P2P program, Authentication, IPSec, PPTP VPN server/Client, SSL VPN, QoS, High Availability, Inbound Load-Balancing and etc. In addition, it provides higher performance with all Gigabit Ethernet interfaces offering faster speeds for your network applications. The two built-in WAN interfaces allow the CS-2000 to support Outbound/ Inbound load balance and WAN fail-over feature. Furthermore, the VPN Trunk provides VPN fail-over and load balance features that offers a VPN redundant mechanism to keep the VPN always be connected.
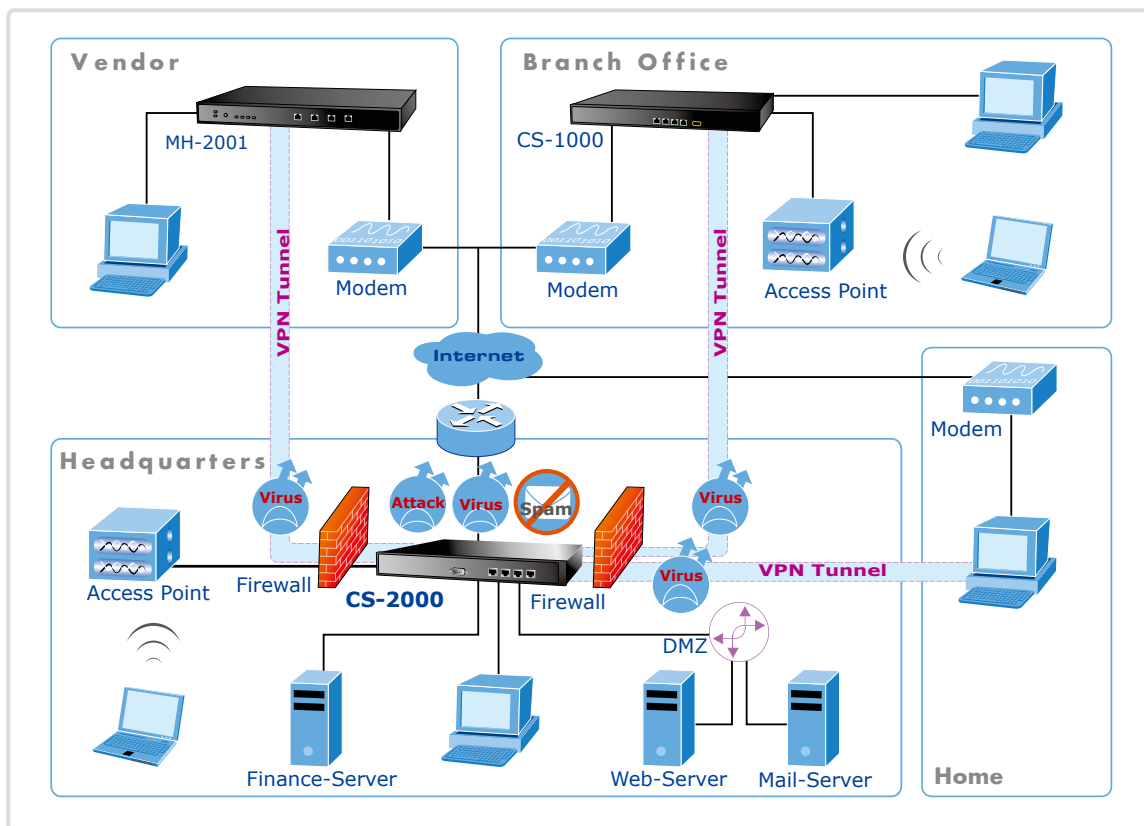
## KEY FEATURES

- **All Gigabit Interface**: The CS-2000 supports all Gigabit Ethernet interfaces to provide higher performance for your network environment.

- **Anti-Spam Filtering**: Multiple defense layers (Spam Fingerprint, Blacklist & Whitelist, Bayesian Filtering, Spam Signature, Graylist, Checking sender account and IP address in RBL), and Heuristics Analysis helps to block over 95% of spam mails. Customizable notification options and spam mail report are provided for administrators. Varied actions to spam mails include Delete, Deliver, Forward and Store in the quarantine. It also has built-in auto-training system to improve the identify rate of spam mails substantially.

- **Anti-Virus Protection**: Built-in dual virus scan engines can detect viruses, worms and other threats from email transfer and can scan mission-critical content protocols, SMTP and POP3 in real time to provide maximum protection. It provides customizable notification options and virus mail report for administrators. Varied actions to virus mails include Delete, Deliver, Forward and Store in the quarantine.

- **Anti-Virus for HTTP, FTP, P2P, IM, NetBIOS**: The CS-2000 can also filter the virus from various protocols. The virus pattern can be updated automatically or manually.

- **VPN Connectivity**: The CS-2000 supports several VPN features -- IPSec VPN, SSL VPN and PPTP server/client. The VPN Tunnel with DES / 3DES / AES encryption and SHA-1 / MD5 authentication to provide secured network traffic over public Internet. VPN Wizard helps administrators to configure VPN settings easily.

- **SSL VPN**: SSL VPN does not need to install any software or hardware. It can use the web browser to easily establish VPN connections for transferring the data by SSL encryption.

- **VPN Trunk**: VPN trunk function provides VPN load balance and VPN fail-over feature to keep the VPN connection more reliable.

- **Content Filtering**: The CS-2000 can block network connection based on **URLs**, **Scripts** (The Pop-up, Java Applet, cookies and Active X), P2P (eDonkey, Bit Torrent, WinMX and more), **Instant Messaging** (MSN, Yahoo Messenger, ICQ, QQ, Skype and Google Talk) and **Download / Upload**. If there are update versions of P2P or IM software in client side, the CS-2000 will detect the difference and update the Content Filtering pattern to renew the filtering mechanism.

- **IDP**: Built-in IDP function can detect the intrusions and prevent the network from Hacker attacks, Anomaly Flow and Signatures from the Internet. The CS-2000 provides three kinds of the signatures to complete the intrusion detection system, and users can select to configure "**Anomaly**", "**Pre-defined**" and "**Custom**" according to the current environment request.

- **Policy-Based Firewall**: The built-in Policy-Based firewall prevents many well-known hacker attacks including SYN attack, ICMP flood, UDP flood, Ping of Death, and etc. The access control function specifies WAN or LAN users to use allowed network services only on specified time.

- **QoS**: Network packets can be classified based on IP address, IP subnet and TCP/UDP port number and offer guarantee of maximum bandwidth with three levels of priority.

- **User Authentication**: Web-Based authentication allows users to be authenticated by web browser. User database can be configured on CS-2000 and it also supports the authenticated database through external RADIUS, POP3 and LDAP server.

- **WAN Backup**: The CS-2000 can monitor each WAN link status and automatically activate backup links when a failure is detected. The detection is based on the configurable target Internet address.

- **Outbound Load Balancing**: The network sessions are assigned based on the user configurable load balancing modes including "Auto", "Round-Robin", "By Traffic", "By Session" and "By Packet". Users can also configure IP or TCP/UDP type of traffic and assign which one of the two WAN ports for connection.

- **Inbound Load Balancing**: The CS-2000 provides the Inbound Load Balancing for enterprises internal server. The Inbound Load Balancing can reduce the server loading and system crash risks in order to improve the server working efficiency.

- **Multiple NAT**: Multiple NAT allows local ports to set multiple subnet works and connect to the Internet through different WAN IP addresses.

- **High Availability**: The CS-2000 provides the High Availability function and the redundant system helps to keep the network traffic active when the device crash down.

## APPLICATIONS

### UTM Content Security Gateway

PLANET UTM Content Security Gateway, CS-2000, is a specially designed security gateway with virus and spam filtering features. As the gatekeeper of corporate security network, CS-2000 prevents corporate intranet from being infected by virus and its network resource occupied by useless spam mails. Furthermore, IDP, User Authentication and Content Filter features of the security gateway offer the corporate intranet highly secure protection. The CS-2000 also provides the IPSec, SSL VPN, and PPTP VPN solutions for data to be securely delivered via VPN tunnel.

## SPECIFICATION

| Product | | UTM Content Security Gateway |
|---|---|---|
| Model | | CS-2000 |
| **Hardware** | | |
| Ethernet | LAN | 1 x 10/100/1000Based-T RJ-45, Auto-negotiation, Auto MDI / MDI-X |
| | WAN | 2 x 10/100/1000Based-T RJ-45, Auto-negotiation, Auto MDI / MDI-X |
| | DMZ | 1 x 10/100/1000Based-T RJ-45, Auto-negotiation, Auto MDI / MDI-X |
| Console | | 1 x RS-232 (9600, 8, N, 1) |
| Hard Disk | | 80 GB |
| H/W Watch-Dog | | Auto reboot when detecting system fail |
| **Software** | | |
| Management | | Web (English, Traditional Chinese, Simplified Chinese) |
| Operation Mode | | DMZ_Transparent, DMZ_NAT, NAT |
| Routing Protocol | | Static Route, RIPv2 |
| Concurrent Sessions | | 1,000,000 |
| Email Capacity Per Day (mail size 1098 bytes) | | 1,800,000 |
| Firewall Performance | | 300Mbps |
| VPN Performance | | 46Mbps |
| VPN Performance (with 3DES) | | 30Mbps |
| Firewall Security | | Policy-Based access control<br>Stateful Packet Inspection (SPI)<br>NAT / NAPT |
| VPN Tunnels (Connection/Configuration) | | 200 / 1000 |
| VPN Function | | IPSec, SSL VPN, PPTP server and client<br>DES, 3DES and AES encrypting<br>SHA-1 / MD5 authentication algorithm<br>Remote access VPN (Client-to-Site) and Site to Site VPN |
| Content Filtering | | URL Blocking<br>Script Blocking (Popup, Java Applet, cookies and Active X)<br>IM blocking (MSN, Yahoo Messenger, ICQ, QQ, Skype, Google Talk and more)<br>P2P blocking (eDonkey, Bit Torrent, WinMX and more)<br>Download and Upload blocking |
| IDP | | Anti-Virus for HTTP, FTP, P2P, IM, NetBIOS<br>Automatic or manual update for virus and signature database<br>Anomaly: Syn Flood, UDP Flood, ICMP Flood and more<br>Pre-defined: Backdoor, DDoS, DoS, Exploit, NetBIOS and Spyware<br>Custom: User defined based on TCP, UDP, ICMP or IP protocol<br>Yearly, Monthly, Weekly and Daily Reports support |
| Anti-Virus | | Virus scan engine: Two scan engines - Sophos and Clam<br>Virus scanning of E-mail attachment by SMTP, POP3<br>Inbound scanning for internal and external Mail Server<br>Action of infected mail: Delete, Deliver to the recipient, Forward to an account and Store in quarantine<br>Automatic or manual Virus database update |
| Anti-Spam | | Inbound scanning for external and internal Mail Server<br>Supports Spam Fingerprint, Bayesian, Signature, RBL and Graylist filtering<br>Checking sender account and IP to filter the spam mail<br>Auto training system support for Black and white list<br>Action of spam mail: Delete, Deliver to the recipient, Forward to an account and Store in quarantine<br>Yearly, Monthly, Weekly and Daily Reports support |
| QoS | | Policy-Based bandwidth management<br>Guarantee of maximum bandwidth with 3 priority levels<br>Classify traffics based on IP, IP subnet, and TCP/UDP port |
| User Authentication | | Built-in user database with up to 500 entries<br>Supports local database, RADIUS, POP3 and LDAP authentication |
| Logs | | Traffic Log, Event Log and Connection Log<br>Log can be saved from web and backup by e-mail or syslog server |
| Accounting Report | | Record of Inbound and Outbound traffic utilization by Source IP, Destination IP and Service<br>Backup Accounting Report for Outbound and Inbound traffic |

| Statistics | WAN ports traffic statistic and policies statistic with graph's display |
|---|---|
| Others | Dynamic DNS<br>NTP support<br>Multiple server load balancing<br>Outbound / Inbound load balancing<br>High availability<br>Multiple subnet<br>SNMP v1, v2, v3 |

## ORDERING  INFORMATION

| CS-2000 | UTM Content Security Gateway ( 2 x WAN, 1 x LAN, 1 x DMZ ) |
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C-CS-2000v2