



SifoWorks™
UTM

The New Generation of **UTM**

Defense on Demand™

All in One: Firewall • Anti-Virus • Anti-Spam • Content Filter • Traffic Anomaly Detection • IDS • IM Block • Multi-homing • QoS • Reporting • SSL VPN • IPsec VPN

Key Features

- Packet Virus Scan
- Intrusion Detection and Prevention
- Anomalous Traffic Detection
- QoS Bandwidth Management
- Inbound/Outbound Multi-homing Load Balancing
- Spam Mail Scan
- Content Filtering
- Audit Reports and Traffic Analysis Graphs
- IPsec, SSL & PPTP VPNs

SifoWorks™ UTM

The SifoWorks™ U-series firewall is a multi-function secure gateway system which can effectively defend against ever-evolving network attacks and hacker intrusions. With the U100, U200 and U500 systems, you can monitor your employees' inappropriate Internet behavior and activities and their email traffic, and allow only permitted activity, thus safeguarding against abuse of company resources. SifoWorks™ U-series is a choice investment for any enterprise in the 21st century.



Packet Virus Scan

SifoWorks™ U-series firewall provides real-time scanning of packet traffic based on various protocols such as HTTP, FTP, POP3 and SMTP. This protects the enterprise network, right at the gateway, from viruses, worms and malware embedded within transferred data and web pages. The U-series supports two anti-virus engines: ClamAV and Sophos. ClamAV signatures can be updated as frequently as desired, to ensure an accurate scan; annual subscription is required for Sophos updates.

Intrusion Detection and Prevention

This embedded IDP system covers 2,900 types of attack definitions, and its definition database can be continuously updated with newer definitions, at no additional cost. Users can also create flexible attack definitions in anticipation of specific threats. Besides providing real-time messages to users on specific attacks, the U-series also provides comprehensive statistics and reports to help users track and audit the source of threats.

Anomalous Traffic Detection

If the system detects abnormal traffic flow outbound to the WAN, it will identify the specific source IP in the LAN, and block traffic from this source. A U-series appliance can also direct certain switches to shut down the port connected to this source, and prevent internal broadcast of large numbers of attack packages that can slow down the network or even paralyze it.

QoS Bandwidth Management

The U-series can guarantee sufficient network bandwidth for specific services and servers, which includes allocating maximum or guaranteed bandwidth, and prioritize packet queues. The system also helps you to manage your network resources more effectively by allowing you to control and manage download volume, and configure the number of concurrent sessions for a specific source IP.

Inbound/Outbound Multi-homing Load Balancing

The U-series provides powerful traffic load balancing function. Externally, it provides load balancing for company web pages, email services and specific servers; within the network itself the system supports two ISPs with various load balancing modes. The administrators can also define policy route to manage the network bandwidth, and maintain a stable and uninterrupted network.

Spam Mail Scan

The U-series provides a comprehensive suite of anti-spam scanning mechanisms that is adaptable to your current network structure via transparent or forwarding mode. Besides using various scanning mechanisms such as Bayesian filtering, spam fingerprinting database and network RBL database queries, users can create user-defined filter rules, black lists and white lists. When spam is detected and quarantined, the system will tag the spam mails and then alert the users, giving each user an opportunity to un-tag and retrieve valid emails if they were wrongly tagged as spam. The system learns from the untagging process and, even without the user defining new keywords, improves its recognition accuracy significantly to over 99%.

Content Filtering

Instant Messaging and Peer-to-Peer software bring potential security risks and consume valuable network bandwidth. The U-series can recognize and limit the network connections from popular applications such as MSN, QQ, Skype, ICQ, BT, eDonkey. In addition, the system helps you to control and manage content downloaded via HTTP and FTP. These include restricting the type of file attachments and filtering components such as ActiveX, Java and Cookies that come with the web pages.

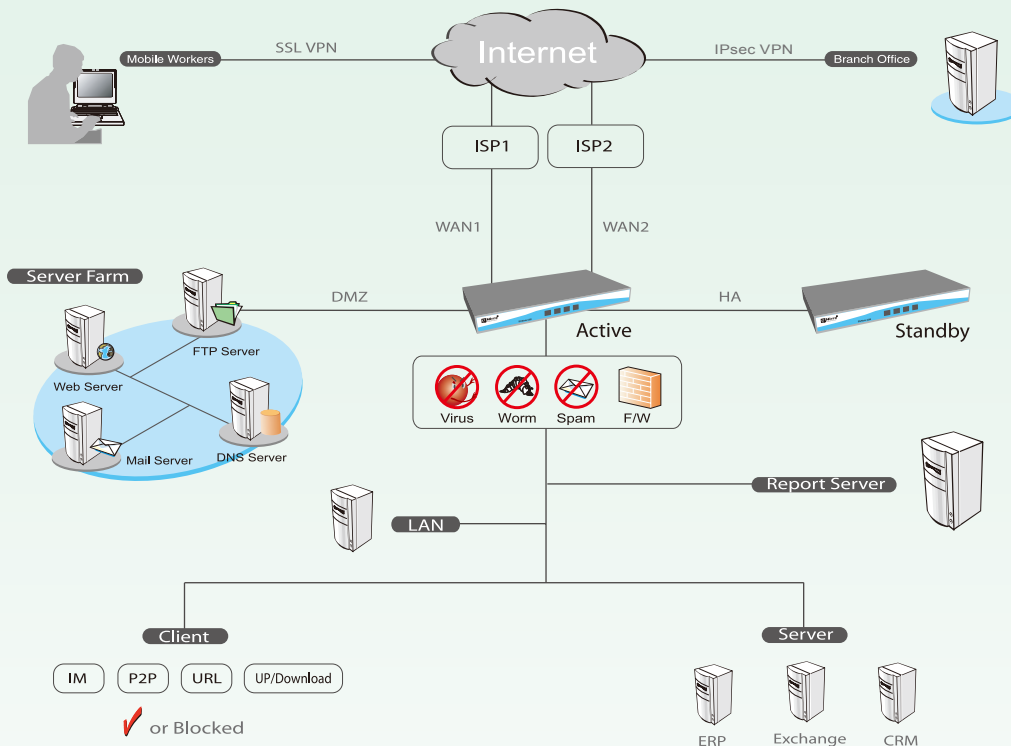
Audit Reports and Traffic Analysis Graphs


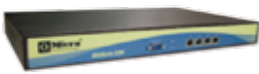

The U-series provides a wide range of charts and reports for your reference, including virus scan and IDP defense logs, spam statistics, traffic graphs (MRTG) and packet traffic rankings (Top N). The system also provides management tools such as SNMP and real-time email alerts to help you monitor the system status and track and audit specific events.

Built-in IPsec, SSL and PPTP VPNs

To meet the rising mobile office demand, the U-series not only provides IPsec and PPTP VPN, it also provides SSL VPN as the most convenient solution for remote access. Mobile users only require a web browser to easily connect to the SSL VPN and access the internal servers. The IPsec and PPTP VPNs are compatible with Windows VPN client. This not only enhances your company's productivity, but also lowers your maintenance cost significantly.

U-Series Deployment Scenario



	U100	U200	U500
			
Performance and Capacity			
Firewall Throughput	100 Mbps	200 Mbps	850 Mbps
Concurrent Sessions	110,000	260,000	1,000,000
New Sessions/Second	1,000	5,800	30,000
Policies	200	1,000	20,000
VPN Performance	32 Mbps	64 Mbps	200 Mbps
Concurrent VPN Tunnels	100	200	2000
Interfaces	4 x FE 2 WAN, 1 LAN, 1DMZ/LAN	4 x FE 2 WAN, 1 LAN, 1 DMZ/LAN/WAN	6 x GE 4 WAN, 1 LAN, 1 DMZ/LAN/WAN
Rack Mount	Standard 1U 19"	Standard 1U 19"	Standard 1U 19"
Dimension (D x W x H)	237 x 435 x 43 mm	272 x 435 x 43 mm	272 x 435 x 43 mm
Weight	2.8 kg	4.5 kg	5 kg
Power Supply	100-240V, 50-60Hz	100-240V, 50-60Hz	100-240V, 50-60Hz
Certifications	Please visit www.o2security.com/product/certifications for the complete list of certifications and awards.		

Operating Modes	
Layer 2 Transparent Mode	Yes
Layer 3 Router Mode	Yes
NAT	Static NAT, Dynamic NAT
PAT	Yes
User Licenses	Unlimited
Firewall Features	
Stateful Packet Inspection	Yes
Rule Schedule	Yes
Predefined Service and Network Object	Yes
Content Filtering	
URL Filtering	Yes
HTTP Content Block	ActiveX, Java Applet, Cookie, Pop-up
File Extension Filtering	Yes
IM Control	MSN, ICQ, Yahoo Messenger, Skype, QQ
P2P Control	BT, eDonkey, MUTE, WinMx, KuGoo, iMesh
Email Filtering	
Supported Protocols	SMTP, POP3
Spam Filtering	Personal Rule*, Bayesian Filtering, Fingerprint, Block and Exempt Lists, RBL, Auto-Learning
Outbound Filtering	Yes (U500 Only)
Anti-Virus	
AV Engine	ClamAV (included), Sophos (option)
Auto-Update of Virus Code	Yes
Supported Protocols	SMTP, POP3, HTTP, FTP
IPS	
IPS Database	At least 2900 Signatures (U200 & U500) At least 700 Signatures (U100)
Customizable Signature	Yes
Auto-Update of IDP Database	Yes
DoS/DDoS Protection	Yes
NetBIOS Alert Message	Yes
VPN	
Encryption Algorithms	DES, 3DES, AES
Authentication Algorithms	MD5, SHA-1
IKE Support	Yes
Peer Authentication	Pre-shared Key, Certificate
Perfect Forward Secrecy (PFS)	DH Group 1, 2, 5
DPD Support	Yes
Hub-and-Spoke VPN	Yes
VPN Trunk and Failover	Yes (IPsec, PPTP)
PPTP	Yes
SSL VPN*	Yes

User Authentication	
Internal Database	Yes
External Authentication	RADIUS, LDAP
Web-Based Traffic Authentication	Yes
Email Authentication	POP3
System Management	
SSL Based Web UI	Yes
SNMP	Yes
Role Based Administration	Yes
Configuration Wizard	Yes
NTP Support	Yes
Upgrade and Changes via Web-based UI	Yes
High Availability*	Yes (Active-Passive)
Logging and Monitoring	
Internal Log Database	Yes
Remote Syslog Server	Yes
Packet Statistics	Yes
Event Report (Top N)	Yes
Traffic Report (MRTG)	Yes
Email Alert	Yes
Routing	
Static Route	Yes
RIP	v2
WAN Failover	Yes
DDNS Support	Yes
PPPoE Support	Yes
Load Balancing and QoS	
Priority Queues	3 Queues
Maximum Bandwidth	Yes
Guaranteed Bandwidth	Yes
Bandwidth Granularity	1Kbps
Download Quota and Session Number Control	Yes
Outbound Load Balancing	Auto, Round-Robin, By Traffic, By Session, By Packet, By Source IP
Inbound Load Balancing*	Round-Robin, Weighted Round-Robin
Built-in DNS Server*	Yes
DNS Entry Backup*	Yes
Operating Environment	
Operating Temperature	0 – 60°C (-32 – 108°F)
Storage Temperature	-10 – 70°C (-18 – 126°F)
Humidity	5% – 95% non-condensing

* Not available in U100.