

### FIREWALL FEATURES

- Perimeter Firewall**
- Stateful Packet Inspection**
- Intrusion Prevention System (IPS)**
- Outbound (egress) filtering rules**
- Port Grouping**
- Port-agile traffic blocking**
- Multiple rule sets**
- Dynamic NAT (DNAT) and Static NAT (SNAT) operation**
- Internal Firewall including DMZ, other zones & inter-zone bridges**

### BENEFITS

- Block threats at the boundary - before they enter your network.
- Keeps out invalid traffic by ensuring all packets are part of a legitimate sequence.
- Monitors and reacts to malicious activity and gives, through reporting, an overall view of the attacks occurring to your systems.
- Controls what Internet services and ports users can access, based on destination IP address as well as port, protocol, AD group and source IP address.
- Group ports into types (e.g. web, email, remote access) to simplify configuration and deployment.
- Detects & blocks file transfers/downloads (P2P traffic such as KaZaa, BitTorrent, etc)
- Increased flexibility with configuration options.
- Allowing a range of Internet accessible servers to be positioned on the internal network with multiple IPs supported.
- Segregate local networks into physically independent zones – useful for controlling inter-zone access & in the event of server compromise. (Also integrates with User Authentication systems)

### VPN FEATURES

- Layer 2 Tunneling Protocol (L2TP)**
- IPSec**
- SSL VPN**
- Data Compression - IPComp (RFC 2393)**
- 3DES data encryption**  
(+ AES Rijndael, Twofish, Blowfish and CAST encryption algorithms)
- NAT Traversal (NAT-T) option**
- Activation/deactivation of individual VPN tunnels**

### BENEFITS

- Secure connections for remote workers.
- Compatible gateway for both site-to-site and laptop VPN connections.
- Simplified access from laptop VPN connections. Able to cross network filters where L2TP or IPSec might fail, such as hotel room wireless. Support for Internal SSL VPN also allows VPN connections to be made inside the network.
- To improve VPN throughput, supporting more VPN connections.
- Prevents eavesdroppers reading confidential information & provides interoperability with other existing VPN products.
- Seamless operation even when the peer gateway or client is behind a NAT router.
- Gives administrators full control over who is accessing the network.

### NETWORKING FEATURES

- Up to 20 interfaces**  
(4 or 6 ports)
- Multiple external connections**
- Ethernet, DSL, (PPPoA, PPPoE and PPTP) and analogue modem support**
- Auto failover to a standby appliance**
- Routing protocol support**
- VLAN trunking (802.1Q)**

### BENEFITS

- Allows segregation not only of servers & clients, but different types of client (wireless laptop users, servers, critical servers, guest workstations, different departments, etc).
- Allows load balancing between a number of Internet connections.
- Allows failover to 'lower tech' connections when the main connection fails.
- Allows connectivity continuation in the event of hardware dropout.
- Facilitates integration into existing network infrastructures.
- Allows creation of VLANs for easier network management.

## VIPRE ANTI-MALWARE FEATURES

### VIPRE Anti-Malware Engine

(Note: subscription payable)

### Next Generation Anti-Malware

### Real-time behavioral analysis technology

### Certification

### MX-Virtualisation™ (MX-V)

### Genscan™ and Cobra™ heuristics

### ThreatTrack™

### SteadyStream™

## BENEFITS

New codebase delivering high speed threat scanning using an advanced technology stack with low impact on CPU and memory.

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Protection against known and unknown “zero-day” malware threats by using proprietary detection methods which include; traditional signature-based, behavioral analysis, heuristics and most importantly dynamic translation.

VB100 and Checkmark Certified with exceptional detection rates and fast updates.

The fastest most adaptable Dynamic Translation technique for malware analysis which analyses potential threats by observing their behavior in a safe virtual environment.

Dynamic pattern assessment to determine if a source is malware.

Data feeds of the latest harmful URLs identifying malware hosts and phishing sites.

Real-time live threat data integration with continuous and compact updates at least once an hour.

## WEB FILTERING FEATURES\*

### Dynamic Content Analysis™

### ‘Who, What, When, Where’ Policy Tools

### SSL interception

### Unified Policy Tools and Wizards

### ‘Quick Block’ and ‘Quick Allow’

### Advanced Categorization

### ‘Soft-blocking’ per content category

### Flash filtering

### Outbound (web post) monitoring & blocking

### Customisable URL blocklists

### Internet Watch Foundation

### Whitelist mode

### Temporary ‘Banned User’ list

### Manage MIME, file extension and download size

### Block advertising and cookies

### Policy based controls

### Search engine filtering

## BENEFITS

Screens the content, context and construction of web pages in detail, accurately detecting and blocking all objectionable, inappropriate, hidden or malicious content (including anonymous proxies).

True ‘who, what, when, where’ filtering with flexible user, group, time and location based controls.

Allows all unknown secure traffic to be decrypted and inspected (using Dynamic Content Analysis), so harmful HTTPS/SSL content (including SSL proxies) can be effectively blocked even in transparent proxy mode.

Unified, easy to use policy setting tools with policy and configuration wizards. With unlimited groups and ‘per user’ policies and the ability to combine policies with multi-group membership.

‘Quick Block’ and ‘Quick Allow’ buttons for fast one click fixes

Add-to-category functionality allows in-built categorisation to be adjusted with ease. Enhanced real-time categorisation - delivers higher accuracy, better reporting and fewer over-blocks

Delivering a better user browsing experience with compromising safety, security or control.

Screens actual SWF file code to accurately detect and block undesirable Flash content such as online games and video players.

Monitors and blocks text posted on the web (i.e. inappropriate blog / forum / Social Networking / Twitter posts) using a keyword analysis system.

Current, categorised and customisable URL blocklists control access to a pre-defined list of undesirable websites.

Blocklists are updated daily with IWF datafeeds.

Users can only access a customised list of ‘allowed’ sites.

Ban selected users until a selected date or time and run reports with lists of ‘banned users’ and the duration of their bans.

Filtering policies can be set to manage specific file types, and limit download sizes.

Advertising and cookies and be automatically blocked.

Different filtering policies can be created and set for different groups of users, in accordance with organisation policy or the AUP.

Filter, monitor and report upon search terms used and force “safe search” on popular search engines.

## Logging, filtering and censoring of Instant Messenger applications

Control and monitor the use of Instant Messaging applications. IM file transfers and attachments can be logged or blocked and selected words or phrases can be censored and set to trigger alerts with responses sent direct to users' messaging clients. Encrypted Instant Messaging is also supported.

## SWURL Devolved Personal Block/Allow List Management

SWURL allows specified users to manage their personal block/allow list via a portal - enabling miscategorised content to be accessed whilst being logged.

## YouTube.com/education Channel Support

Allows access to youtube.com/education channel without removing restrictions on other YouTube content.

## Temporary bypass controls

Block page includes password protected options to bypass the filter on a temporary basis.

## Configurable 'Site Blocked' page

'Site blocked' page can be customised to include a logo, message text, a reason for blocking, un-block buttons, IP address and username.

## 'Softblock' option

Instead of automatically blocking inappropriate content, users are issued warning messages about content and given options to either continue or cancel.

## Stealth mode

Web pages are filtered and logged as normal, but are not blocked, allowing administrators to monitor activity without affecting users (useful when testing a new installation as it allows the filtering rules to be fine-tuned before 'going live').

## Flexible request and content modification

Modify web page requests and content 'on the fly' to enable neutralisation of malicious JavaScript and other web threats.

## Web proxy cache

Reduce bandwidth utilisation by storing and retrieving frequently accessed web pages from local disk storage.

## Default 'safe' configuration

Guardian can be installed with a default 'safe' configuration which filters out a standard range of illegal and objectionable content.

Note: Guardian's default 'safe' configuration matches the requirements of CIPA and BECTA standards.

## Mobile Device Filtering

Mobile Guardian allows many devices (iOS, OSX, Windows) to be actively filtered and controlled according to the organization's policies in or out of the home network. *Android will be supported during 2012.*

## Guest Mobile Device Filtering

Guest devices can be accommodated on the network and filtered according to the organization's policies.

## EMAIL SECURITY & ANTI-SPAM OPTIONAL MODULE

### BENEFITS

#### SMTP Validity Checking

Checks for malformed email (usually either spam or designed to attack mail server/client vulnerabilities).

#### Grey Listing

Mail from unknown senders may be temporarily rejected. Genuine email servers (as opposed to zombies or botnets) usually resend after a short delay - if a second attempt is made, the sender is then automatically added to the list of known senders.

#### Remote Blackhole List (RBL)

The option to utilise RBL services (maintained databases of IP addresses that are acting as open mail relays for bulk spamming).

#### Sender Domain Spoofing Prevention

Rejects any incoming email that falsely uses an internal domain in the 'from' address.

#### Disclaimer Footers

Ability to add standardised disclaimers to the footer of outgoing emails. Different disclaimers can be used for different domains.

#### Attachment Removal

Allows dangerous or unwanted attachments to be discarded based on type (e.g. executable files, documents and multimedia files).

#### Content Analysis (Mailshell 3.0 Spam Content)

Examines the content of messages in detail, including address fields, subject, headers, SMTP envelope content, email format, design and layout, image layout, hyperlinks, contact information, language and origin.

#### Reputation Checking

Sender reputations are determined using comprehensive 'real-time' databases of IP addresses, domains and email addresses of known spammers. Bayesian analysis is used to combat attempts to hide sender identity.

#### Bulk Mail Detection

Identifies if a message or similar messages were sent in bulk by creating 'fingerprints' based on message elements that are tough for spammers to fake or change.

## Phishing

Identifies special formatting used to evade spam filters and for phishing attacks and economical bulk mailings (including image-only messages, HTML obfuscation and manipulation using relays). Analysis of the message header includes time stamps and the SMTP envelope.

## User-configurable Spam Treatment Controls

Users have the option to add email addresses to their own blacklists or whitelists and set automatic rules for changing subjects, replacing content or sending to a quarantine mailbox. Quarantines can be set up for individual email addresses with daily 'spam trapped' email reports sent to users so they can view and release emails.

## Near Real-Time Updates

The software is updated every 5 minutes with the latest email fingerprints and detection rules.

## AUTHENTICATION FEATURES

### Authentication Features Integrates with User Authentication systems

Control access based on authenticated identity as opposed to assumed identity derived from a computer's IP address (supports Microsoft Active Directory®, Novell eDirectory, and other LDAP systems).

### Multiple filter groups

Different filter policies can be allocated to up to 100 different groups of users. Particular users can also be configured not to be subject to any filtering at all.

### Transparent proxy mode

System administration is simplified with support for NTLM authentication in transparent proxy mode; which avoids the need to configure proxy settings for each user computer.

### Password-protected authentication

The use of NTLM with password verification provides seamless single sign-on without the need for users to log in or enter their Windows ID/password again.

### Ident integration

Ident (Windows User Identification) can be enforced so that any user that has not been identified from Ident information (ie their PC is not running an Ident client) will be not be allowed to browse the web.

## BENEFITS

## REPORTING & LOGGING FEATURES

### Report templates

Users can create, customise and save their own report templates and utilise an extensive range of over 350 report templates including most visited domains, bandwidth utilisation by user, commonly blocked search terms and the worst offending users (in terms of requesting pages that were blocked by Guardian). Report options include site-specific reports (e.g. YouTube top viewed videos) and IM reporting (time spent messaging and chat friends per user).

### Drill down to a single user or IP

Reports include the user name and IP address of the user PC so AUP violators can be quickly identified. A drill-down facility allows data to be explored to a greater depth – e.g. from a list of blocked sites that users have attempted to access, drill-down to find out which users have been trying to access any particular site. It is possible to view the entire browsing history of a single user.

### Automated reports

User-specific reports can be automatically time-scheduled to run on a daily or weekly basis. Reports can also be automatically saved or distributed to recipient lists via email.

### AJAX real-time logs & traffic graphs

View web, email or IM activity instantaneously, with the option to filter by user name, IP address or web site.

### Export into PDF, HTML, Excel, Crystal Reports®

Reports can be produced in a range of formats for ease of viewing (with pie charts/graphs) and to aid integration with existing systems.

### Reports via domains or categories

Report on top domains, categories, page visits and offenders based on user, group and/or IP address.

### User Portal

Provides selected users (or groups of users) with limited access for viewing reports/logs, controlling temporary bans and downloading SSL VPN clients.

### Incident Alerts

Alert messages can be sent by both email and SMS text message to cell (mobile) phones for issues requiring immediate attention.

### Hardware healthcare alerts

Notifications about system resource issues (eg low disk space, high memory use, high CPU loads, UPS failures) and network intrusions or violations.

## NOTES

\* Features with an asterisk are not included in the UTM-100 Series. For more information see the UTM feature comparison matrix on our website: [www.smoothwall.net](http://www.smoothwall.net)

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