

Astaro Web Gateway Overview

Astaro Web Security

In many companies, Web 2.0 typically means security level 0.2. Employees routinely access their regular web applications from their work stations and exchange data packets over Instant Messaging programs, therefore creating new scenarios of abuse. Popular web applications not only reduce the productivity of daily work processes but can also potentially lead to serious legal consequences.

Such undesirable hazards can be averted through the professional management of employee web access. Corruptive content, typically hidden within web and FTP downloads, needs to be strategically filtered out in order to protect corporate networks from dangerous malware and spyware infections. The use of single point solutions, such as URL filtering or antivirus products, tends to only marginally secure your perimeter. Today's corporate networks are required to maximize their security through the implementation of complete solutions, which cover all security bases.

Astaro Web Gateway serves to effectively protect from web-based attacks, provides maximum functionality through minimal effort and accommodates a spectacular price-performance ratio. With this "all-in-one" appliance, IT administrators are easily able to:

- ▶ **Filter web access:** Grant web access based on sixty easy-to-navigate categories with user- and time-based policies.
- ▶ **Detect Malicious code:** Perform fast, accurate scanning for viruses, spyware and active content, providing unmatched detection rates via two scan engines.
- ▶ **Control IM / P2P applications:** Steer and manage access and use of all Instant Message and Peer-to-Peer applications, including Skype.
- ▶ **Manage bandwidth:** Orchestrate and prioritize bandwidth for important business applications.

The Astaro Difference

Astaro simplifies network security. More than 100,000 IT administrators worldwide place their trust in Astaro solutions. Astaro is widely recognized as the leading pioneer of the Unified Threat Management (UTM) market, which is now fundamentally established as a security standard. Founded in 2000, Astaro belongs to those technological leaders.

Astaro's applications are best of breed

Astaro isn't cobbling together rudimentary filtering functions, nor does it inflate existing platforms with "check-box" features. All of Astaro's applications are carefully selected, run through intense testing and compete with the best point solutions available.

First with new protection layers

Our modular and open software architecture allows Astaro to add new layers of protection as quickly as new threats arise. Our customers always have the latest protection layers available, automatically updated, free of charge.

Only server-class Hardware

Instead of cheap proprietary platforms and operating systems, Astaro runs on what powers the most demanding applications on the Internet: Intel-Server systems with a hardened embedded security Linux.



Benefits

Comprehensive Security

- ▶ Reliably blocks malicious content within web and FTP traffic
- ▶ Dual Antivirus protection with extensive virus signature databases
- ▶ Control for all important IM/P2P applications

Easy to Manage

- ▶ Browser-based graphical user interface
- ▶ Real-time automatic update of firmware and attack patterns
- ▶ Extensive web security reports
- ▶ Active Directory and eDirectory integration

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symtrex inc.
Network Security Specialists

Who's Watching Your Network?



Astaro Web Gateway 1000



Small Networks

Astaro Web Gateway 2000



Medium Networks

Astaro Web Gateway 3000



Medium Networks

Astaro Web Gateway 4000



Large Networks

AWG Virtual Appliance



Small to Large Networks

Recommended Users	100	250	750	2,000	**
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Functionality

URL Filtering	yes	yes	yes	yes	yes
Malicious Code Detection	yes	yes	yes	yes	yes
Application Control	yes	yes	yes	yes	yes
Bandwidth Management	yes	yes	yes	yes	yes

System

Log/Reporting Storage	70 GB	70 GB	70 GB	140 GB*	**
10/100/1000 Mbps Ethernet Ports	2	2	4	4	**
Form Factor	1U rack-mount	1U rack-mount	1U rack-mount	1U rack-mount	**
Active/Active Cluster	no	no	yes	yes	**

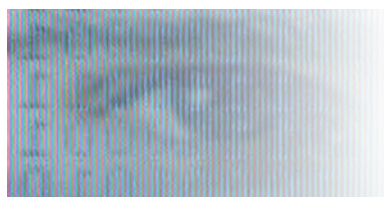
Performance

In-line Throughput	50 Mbit/s	80 Mbit/s	150 Mbit/s	250 Mbit/s	**
Antivirus/Web Filter Throughput	20 Mbit/s	40 Mbit/s	80 Mbit/s	130 Mbit/s	**
User Requests	100 req./s	375 req./s	1,200 req./s	3,000 req./s	**

* RAID hard disk system. ** Depending on hardware platform used

➤ Finally, a unified approach brought successfully to Web Security!

◀ Stuart Reay, Managing Director
Arc Technology Distribution Ltd.



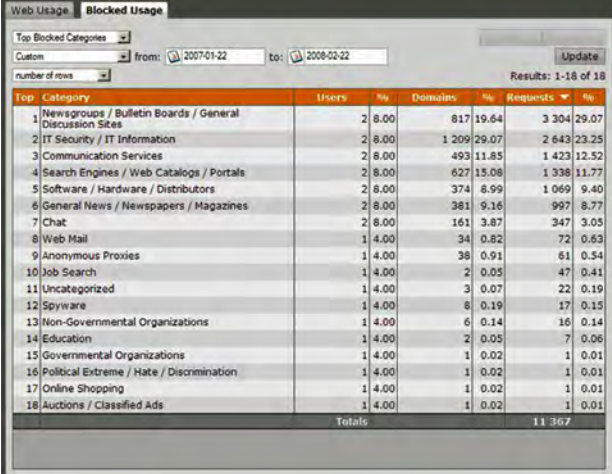
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Who's Watching Your Network?

Web Security Reporting

Astaro Web Gateways are equipped with one of the most extensive logging and reporting systems available on any security product today. Every website visit, download and IM/P2P usage is fully stored in self-archiving system, allowing Astaro to then extrapolate data into useful reports directly on the gateway:

- ▶ **In-line reports** offer up-to-date statistical information through more than thirty detailed reports, updated every fifteen minutes. These help identify top web, application and bandwidth usages per user or domain. these reports offer fully detailed breakdowns of surfing activities by IP address or user name as well as complete listings of blocked domains, URL categories, viruses and file extensions.
- ▶ **Reporting graphs** provide daily, weekly, monthly and yearly overview statistics about the utilization of hardware components such as CPU, RAM, hard disk, and network interface usage.
- ▶ **Executive report** includes summary information taken from both the in-line reports and the reporting graphs. They can be generated on demand and also emailed out to a list of users on a daily, weekly or monthly basis.



The screenshot shows a web interface for 'Blocked Usage' reporting. It includes a search filter for 'Top Blocked Categories' and a date range from 2007-01-22 to 2008-02-22. Below the search fields is a table with columns for 'Top', 'Category', 'Users', '%', 'Domains', '%', 'Requests', and '%'. The table lists various categories such as 'Newsgroups / Bulletin Boards / General Discussion Sites', 'IT Security / IT Information', and 'Communication Services'. The total number of requests is 11,367.

Top	Category	Users	%	Domains	%	Requests	%
1	Newsgroups / Bulletin Boards / General Discussion Sites	2	8.00	817	19.64	3 304	29.07
2	IT Security / IT Information	2	8.00	1 209	29.07	2 643	23.25
3	Communication Services	2	8.00	493	11.85	1 423	12.52
4	Search Engines / Web Catalogs / Portals	2	8.00	627	15.08	1 338	11.77
5	Software / Hardware / Distributors	2	8.00	374	8.99	1 069	9.40
6	General News / Newspapers / Magazines	2	8.00	381	9.16	997	8.77
7	Chat	2	8.00	161	3.87	347	3.05
8	Web Mail	1	4.00	34	0.82	72	0.63
9	Anonymous Proxies	1	4.00	38	0.91	61	0.54
10	Job Search	1	4.00	2	0.05	47	0.41
11	Uncategorized	1	4.00	3	0.07	22	0.19
12	Spyware	1	4.00	8	0.19	17	0.15
13	Non-Governmental Organizations	1	4.00	6	0.14	16	0.14
14	Education	1	4.00	2	0.05	7	0.06
15	Governmental Organizations	1	4.00	1	0.02	1	0.01
16	Political Extreme / Hate / Discrimination	1	4.00	1	0.02	1	0.01
17	Online Shopping	1	4.00	1	0.02	1	0.01
18	Auctions / Classified Ads	1	4.00	1	0.02	1	0.01
Totals						11 367	

In-line reports offer a detailed breakdown of surfing activities

Security Features - Details

- ▶ Dual Antivirus engines operate two independent databases with over 300,000 patterns
- ▶ Blocks incoming and outgoing Spyware traffic, preventing infection and hidden communication
- ▶ Blocks file formats defined within blacklists
- ▶ Blocks hidden installation of active content like Java, Active X, Flash, Cookies, VBScript, JavaScript) within the user's desktop
- ▶ Content scanning capability for files over 40 MB
- ▶ Automatic real-time update of firmware and virus patterns and signatures through Astaro's Up2Date server
- ▶ Time-, user- and user-group based access policies
- ▶ Transparent web proxy cache enables faster response times, even with low speed internet uplinks
- ▶ URL filtering technology controls employee web access, with over 20 million websites across 60 categories
- ▶ Uses comprehensive URL database with international content in more than 70 languages, via sites registered in over 200 countries
- ▶ Daily update of newly discovered sites maximizes coverage
- ▶ Integrated user database, Active Directory, eDirectory, RADIUS, Tacacs+ and LDAP authentication
- ▶ Active Directory and eDirectory integrated with single sign-on
- ▶ IM and P2P control: AOL IM, Skype, AIM, ICQ, MSN, Yahoo, IRC, Gtalk, Jabber, Applejuice, Ares, BitTorrent, Direct Connect, Gnutella, Edonkey, Imesh, MUTE, Manolito, WinMX and Winny
- ▶ Skype blocking, alerting and bandwidth shaping
- ▶ Granular IM/P2P Control with exceptions based on User/IP addresses, QoS for IM/P2P protocols
- ▶ Support for UTF-8
- ▶ Server load balancing
- ▶ Customizable end-user messages
- ▶ Active/Passive (Hot Standby) and Active/Active (Clustering) HA, without the need of load balancers
- ▶ Integrated graphical reports offering comprehensive information about frequency and duration of web-usage by user and domain, blocked web categories, detected/blocked viruses
- ▶ Daily executive reports, configurable for email distribution
- ▶ Simple management in web browser
- ▶ Setup wizard and online help

Support

- ▶ Award-winning customer support offerings include 24x7 technical assistance and expedited appliance replacement

Security Response

- ▶ Subscription to Astaro's 24x7 Up2Date Security Response Service keep networks protected and secure at all times

Training

- ▶ Free self-paced training is available on the web along with regularly scheduled live seminars

Online Resources

- ▶ Access a wealth of information about Astaro products, offerings, research and support tools

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