

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 do 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, need 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, tend to only marginally secure your perimeter. Today's corporate networks are required to maximise 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 IM and P2P applications including Skype.
- ▶ **Manage bandwidth:** Orchestrate and prioritize bandwidth for important business applications.

How Astaro is different

Since 2000, when Astaro invented what today is called Unified Threat Management, Astaro's research and development team has continuously refined its technology and extended Astaro's lead in multi-function security appliances:

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 Virus 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





Astaro Web Gateway **1000**



Small networks

Astaro Web Gateway **2000**



Medium networks

Astaro Web Gateway **3000**



Medium networks

Recommended Users	100	250	750
Functionality			
URL Filtering	yes	yes	yes
Malicious Code Detection	yes	yes	yes
Application Control	yes	yes	yes
Bandwidth Management	yes	yes	yes
System			
Processor	Celeron	Pentium Dual-Core	Pentium Core 2 Duo
RAM	512 MB	1 GB	1 GB
Disk Storage	80 GB	80 GB	80 GB
10/100/1000 Mbps Network Ports	2	2	3
Form Factor	1U rack mountable	1U rack mountable	1U rack mountable
Active/Active Cluster	no	no	yes
Performance			
In-line Throughput	50 Mbit/s	80 Mbit/s	150 Mbit/s
Antivirus/Web Filter Throughput	20 Mbit/s	40 Mbit/s	80 Mbit/s
User Requests	100 req./s	375 req./s	1200 req./s

» Finally, a unified approach brought successfully to Web Security! «

Stuart Reay, Managing Director
Arc Technology Distribution Ltd.



Astaro Web Gateway Overview

Astaro Web Gateway 4000

AWG Virtual Appliance



Large networks

Small to large networks

2000 *

yes yes

yes yes

yes yes

yes yes

Xeon *

2 GB *

2*160 GB (RAID, Hot Swap) *

3 *

1U rack mountable *

yes *

250 Mbit/s *

130 Mbit/s *

3000 req./s *

**Depending on hardware platform used.*

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 a 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 breakdown of surfing activities by IP address or user name as well as complete listings of blocked domains, URL categories, viruses and file extensions.

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.

- **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.

Astaro Web Gateway Highlights

- ▶ Dual antivirus engines operate with two independent databases with over 300,000 patterns
- ▶ Blocks incoming and outgoing spyware traffic, preventing infection and hidden communication
- ▶ Blocks file formats defined within black-lists
- ▶ Blocks the 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 real-time check with 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 websites maximise coverage
- ▶ Integrated user database, Active Directory, eDirectory, Radius, Tacacs+ and LDAP authentication
- ▶ Active Directory and eDirectory integrated with single sign-on
- ▶ Instant Messaging and Peer-to-Peer control: AOL IM, ICQ, MSN Messenger, Yahoo! Messenger, IRC, Google Talk/Jabber, Skype, Bittorrent, Edonkey, Gnutella, WinMX, Winny, Manolito, Ares and Direct Connect
- ▶ Granular IM/P2P Control with exceptions based on User/IP addresses, QoS for IM/P2P protocols
- ▶ Skype blocking, alerting and bandwidth shaping
- ▶ Support for UTF-8
- ▶ Server load balancing
- ▶ Customizable end user messages
- ▶ Active/Passive (Hot Stand-by) 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, optionally distributed by email
- ▶ Simple management in web browser
- ▶ Setup wizard and online help

24x7 Service Offerings

Support

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

Security Response

Subscriptions to Astaro's 24x7 Up2Date Security Response Service keep networks protected and secure at all times.

Training

To maximize administrator productivity, 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 through our collection of online resources.

Contact Astaro

Download an evaluation copy of the Astaro Web Gateway virtual appliance at <http://www.astaro.com/download/awg> or contact Astaro at:

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