



astaro

security linux

Astaro Security Linux™
Version 3

Securing the Internet

Astaro® specializes in affordable enterprise level security solutions for protection against hackers, viruses and other risks associated with communicating across the Internet.

Astaro Security Linux is a fully integrated software solution that provides superior performance and easy administration. Including a hardened operating system, stateful packet inspection, virus protection, content filtering, application proxies and IPSec based VPN, Astaro Security Linux provides a powerful all-in-one solution addressing today's security issues. Astaro Security Linux is designed to maximize your networks security without compromising its performance. It enables telecommuters, branch offices, customers and suppliers to safely share critical business information.

| | |
|--|------------------|
| | Firewall |
| | VPN |
| | Virus Protection |
| | Content Filter |
| | Up2Date Service |

- ▶ **Affordability** allows companies of all sizes the ability to implement a powerful and scalable security solution
- ▶ **Manageability** and ease-of-use of all security components through WebAdmin™, Astaro's intuitive administration tool
- ▶ **Proven technology** and innovative solution based on Open Source Software developed by leading specialists and accepted worldwide as the most secure platform
- ▶ **Hassle free installation** with all components on one CD achieving simple implementation and integration in existing network environments
- ▶ **An unwavering commitment to customer service**

How Astaro Security Linux can benefit your organization:

- ▶ Astaro's Up2Date service automatically updates the system against the latest security risks
- ▶ Hassle free secure user access to the internet via a robust stateful packet inspection firewall
- ▶ IPSec/PPTP VPN access for remote users, LAN to LAN or Client to LAN
- ▶ High level data encryption with 3DES, AES (Rijndael), Blowfish or Twofish
- ▶ Remote system management, monitoring (via SNMP or Syslog) and alert notification
- ▶ Easy Remote Administration via WebAdmin (SSL secured)
- ▶ Application level security using SMTP, HTTP, DNS and SOCKS proxies

- ▶ E-mail virus protection inbound and outbound
- ▶ Improves performance (up to 50%) via built-in caching support to frequently accessed web sites
- ▶ Integrated traffic monitoring and reporting tools
- ▶ High Availability utilizing primary and hot-standby concepts for non-stop 7x24 operations
- ▶ Load Balancing for achieving optimal traffic distribution and loading of target resources
- ▶ PPPoE support for ease of use and integration with DSL devices and networks
- ▶ URL Content Filtering helps prevent access to undesired internet sites
- ▶ Active user community at www.astaro.org

About Astaro

Astaro specializes in affordable Internet security solutions for protection against hackers, viruses and other risks of connecting to the Internet. Using Open Source Software as a base, Astaro is supporting the platform that has established new technical and economic standards. Astaro is committed to providing easy-to-manage, cost-effective solutions for their clients critical security issues. With offices in Europe and the United States, Astaro Security Linux is distributed by a worldwide network of partners who offer local support for the installation and maintenance of our world-class security solution. Today, Astaro Security Linux is one of the most popular Internet security solutions on the market and is deployed in more than 60 countries and by more than 5,000 companies worldwide.

Technical Specifications

Firewall

- › Stateful Packet Inspection
- › Security Proxies for HTTP, HTTPS, SMTP, DNS, IDENT, SOCKS (e.g. for Netmeeting, ICQ, Real, H.323)
- › User Authentication for HTTP, SMTP and Socks via Local User Database, Radius, MS Windows NT/2000
- › 50 Predefined Services
- › User definable Service and Network Groups
- › Hacker defense: ICMP flood, TCP SYN flood, UDP flood, Smurf, Trinoo, IP Spoofing
- › Portscan Detection with Alarming

System Management

- › Remote Administration via WebAdmin (SSL secured)
- › System and Pattern Updates via Internet (PGP secured)
- › Logging via Syslog, SNMP, ASCII, WELF (WebTrends compatible)
- › Out-of-band Management via External Modem
- › SelfMonitor for maximizing Uptime
- › Diagnostic Tools (Ping, Traceroute, TCP-Connect)
- › Complete Configuration Backup and Restore
- › Predefined Reports (e.g. Network Usage, HTTP Users, Filter Violations)

- › High Availability (connects standby installation via Serial/Ethernet)

IPSec VPN

- › Net-to-Net, Host-to-Net, Host-to-Host
- › Authentication via Pre-Shared Key (PSK), X.509v3 or RSA
- › Data Encryption via 3DES, AES (Rijndael), Blowfish or Twofish
- › Deflate Compression
- › Perfect Forward Secrecy (PFS)
- › Option: Astaro Remote IPSec Client (by SSH) for MS Windows 98/NT/2000

PPTP VPN

- › Host-to-Net
- › MPPE 40- or 128-bit Data Encryption
- › MSCHAPv2 Authentication

Content Filter

- › Option: Surf Protection (URL Filter): Predefined URL Filter (17 Categories with more than 12 million Domains and 1.9 billion URLs, updated daily, User definable Black- or Whitelists)
- › Malicious Code Filter (e.g. Java, Javascript, ActiveX)
- › HTTP Privacy Filter (Cookies, Web Bugs)
- › Option: Virus Protection for SMTP
- › Anti-Spam (Sender Address Verification, Realtime Blackhole Lists)

- › String Filter for SMTP (e.g. Keywords, File Extensions)

Networking

- › Dynamic and Static Network Address Translation (NAT)
- › PPTP and FTP Passthrough
- › Load Balancing (Round-Robin, Least Used Connection)
- › PPPoE Client
- › DHCP Client and Server
- › IP Aliasing
- › Randomized TCP Sequencing
- › Proxy ARP

Quality of Service/Traffic Shaping

- › Class based Queuing (CBQ)
- › Prioritize Traffic by Network, Service, Protocol

Hardware Requirements

- › 400 MHz CPU, 128 MB RAM
- › 8 GB IDE or SCSI HDD
- › Bootable CD-ROM Drive
- › PCI Ethernet Networkcards (up to 20)

Throughput with a 750 MHz CPU

- › 650 MBit/s Packet Filter
- › 70 MBit/s IPSec VPN
- › 150,000 E-mails/day (10KB E-mails) with Virus Protection

Offices

Europe

Astaro AG (Headquarters)
Jahnstrasse 1
76133 Karlsruhe
Germany
Tel.: +49 721-49 00 69 0
Fax: +49 721-49 00 69 55
E-mail: sales@astaro.com

The Americas

Astaro Corporation
67 South Bedford St.
Suite 400W
Burlington, MA 01803
USA
Tel.: +1 781-229 5880
Fax: +1 781-359 1802
E-mail: salesus@astaro.com

Astaro Corporation
#305-478 Bernard Avenue
Kelowna, B.C.
V1Y 6N7
Canada
Tel.: +1 250 762 8705
Fax: +1 250 762 6984
E-mail: salesus@astaro.com

Africa, Asia, Australasia

Astaro AG
Am Drosteipark 3
25421 Pinneberg
Germany
Tel.: +49 41 01-80 87 20
Fax: +49 41 01-80 87 27
E-mail: salesasia@astaro.com