



astaro

security
linux

Firewall

VPN

Virus Protection

Content Filter

Up2Date Service



Securing the Internet

**A powerful and easy to manage
Firewall/VPN solution**

Astaro Security Linux

Superior performance & ease of use

Companies are increasingly using the Internet, Intranets and Extranets to extend communications with customers, partners and remote users to support their business transactions. Taking advantage of e-mail, the integration of e-commerce applications and flexible connectivity while protecting sensitive information has become an absolute requirement. Internet security solutions enabling the secure sharing of critical business information are now available to companies of all sizes. However, complexity, proprietary hardware and high initial set-up and running costs too often lead companies to shy away from implementing these important solutions.

Astaro Security Linux™...

... is an integrated software solution for protection against hackers & viruses

The hardened operating system, high-performance packet filter, virus protection, content filter, application proxies, highest encryption for Virtual Private Networks (VPN) and the intuitive user interface are all included on one CD. The software is installed within minutes, without requiring any special knowledge of the underlying Linux operating system.

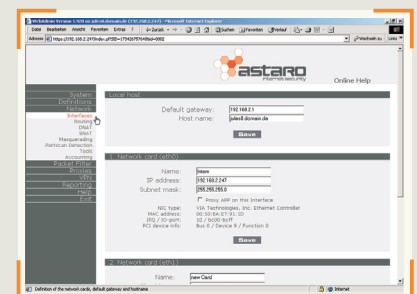
... has minimal running and set-up costs

The firewall is completely configured either locally by using the graphical administration tool WebAdmin™, or from a remote location securely via the Internet. With the convenience of centralized administration, Managed Service Providers employing Astaro Security Linux can offer an affordable security solution service for business of all sizes. Small and mid-sized businesses no longer need to acquire specialized knowledge to implement a robust security solution. And the ongoing administration of the firewall is easily managed via the Internet.

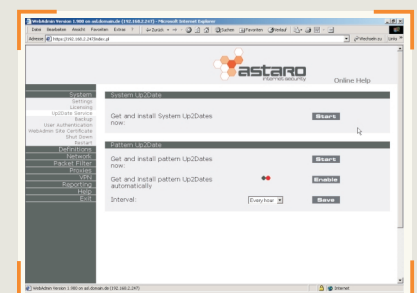
... uses the most secure Open Source Software

The firewall functionality of Astaro Security Linux is based on an especially secure and comprehensively tested Open Source Software that has been developed by leading specialists worldwide. The publicly accessible code was then tested for possible security flaws by thousands of experts. Hardly any other software has ever been subjected to this intense level of quality assurance. The hardened Linux distribution which has been adapted to suit firewall/VPN requirements meets the highest security standards.

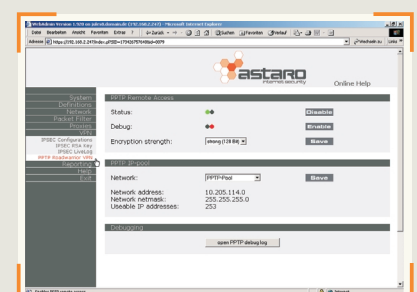
Configuration



Up2Date Service



VPN Definition



Astaro Security Linux

Superior performance & ease of use

Firewall

The dynamic stateful packet inspection filter checks the source and target address of the data packets and blocks undesired data traffic while maintaining high throughput. Astaro Security Linux allows the division of local networks into separate segments (DMZ - demilitarised zones). Expandable up to 25 network cards supporting even the most complex firewall and WAN scenarios.

Virtual Private Networks

The data traffic to branches and customers can be encrypted via a VPN (IPSec) which makes it inaccessible to unwanted third parties. Road Warriors can also access the secured network using a VPN connection via

the very secure IPSec protocol or through the easy-to-configure PPTP protocol which is contained in most Microsoft Windows systems. Astaro Security Linux is also interoperable with the products of other suppliers that support IPSec.

Virus Protection

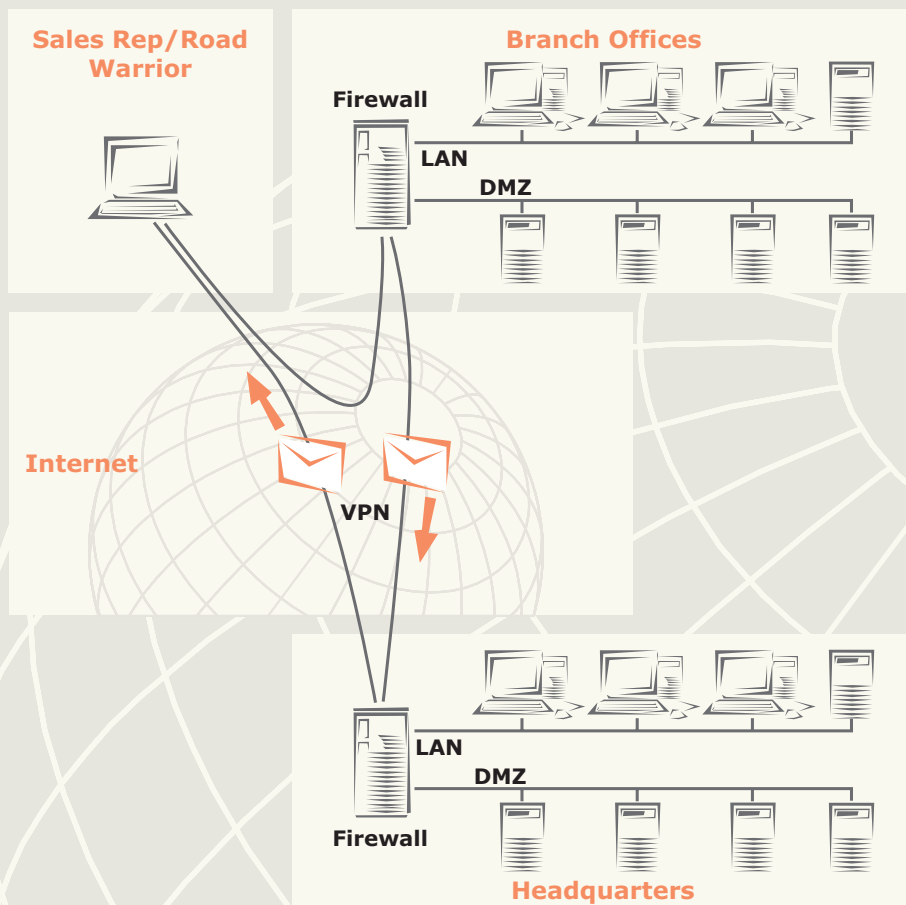
Astaro Security Linux offers effective protection against viruses, e-mail worms and spam mail. All incoming and outgoing e-mail messages are automatically scanned. The ICSA-certified antivirus engine is updated hourly via the Internet without requiring user intervention. Furthermore, Astaro Security Linux protects against potentially dangerous web content, such as Javascript or ActiveX components.

Content Filter

The content of the data traffic is filtered on the application level by proxies and, if necessary, blocked. Together with the packet filtering, this hybrid security solution meets the highest security standards. With the integrated Ad-banner filter, advertisements can be eliminated before the webpages are downloaded on to the LAN and to users desktops. Using proxies and content filtering can reduce the load on your Internet connection by up to 40%.

Up2Date Service

The Up2Date service allows the secure distribution of software updates via the Internet as well as the implementation of new features. Astaro Security Linux is continually and easily kept up to date with state of the art technology and offers the highest protection against hackers and virus infection. The automated Up2Date service significantly drives down the ongoing costs of this comprehensive firewall, VPN and Virus Protection solution.



Astaro Security Linux is developed in Germany and the United States by experienced security experts. Using Open Source Software as a base, Astaro is supporting the platform that is setting new technical and economic standards. Astaro Security Linux is distributed via a worldwide network of partners. OEM license holders and Managed Service Providers also embed our security solution into their products. Astaro Security Linux is today used in more than 60 countries by more than 5000 companies.

Technical Specifications

System

Linux 2.4-based, Change-Root Protection, Kernel-Capability Protection, Web-based Administration (128 Bit SSL encrypted), Updating via Internet (1024 Bit PGP signed), Logging via Syslog/SNMP/ASCII-Files.

Firewall

Stateful Packet Inspection, Portscan Detection, Anti Spoofing.

Virtual Private Networks (VPN)

IPSec and IKE (RFC 2408/RFC 2409), Microsoft PPTP (RFC 2637) Algorithms: Diffie-Hellmann/3DES/MD5/SHA 1.

Proxies

HTTP (Content Filter, Cache, Authentication), HTTPS, SMTP (Virus Protection), DNS, SOCKS 4.0/5.0 (Authentication), Authentication via User Database/Radius/MS Windows NT or 2000.

Networking

Source and Destination NAT, Masquerading, up to 25 Ethernet Interfaces (10/100/1000 MBit), IP Aliasing, Randomized TCP Sequencing, Proxy ARP, Automated Routing.

Performance

Running on a 750 MHz CPU: Up to 64000 concurrent Connections, up to 650 MBit/s Filter Throughput, up to 25 MBit/s VPN Throughput.

Hardware Requirements

400 MHz CPU (min. 300 MHz CPU), 128 MB RAM (min. 64 MB RAM), 8 GB HDD, IDE or SCSI Interface (min. 4 GB HDD), CD-ROM Drive, PCI Ethernet Interfaces (10/100/1000 MBit).

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