A powerful and certificated firewall

Modular and proven safe

Firewalls are essential components in the establishment of network security. They regulate data flow and protect the local network from external attacks.

As a high-quality, open-source-based security solution, the secunet wall firewall sets new standards. It offers compelling functionality, reliability and ease of administration. It provides very high security standards at a low investment cost. secunet wall is also flexible and scalable to the specific needs of the customer.

Benefits

- Fast and easy to integrate into existing networks
- Ideal for large infrastructures
- GUI-driven, fast and easy administration
- CC EAL 4+ certified
- Stable cluster mode
- Remote updating supported

Concept

secunet wall is a hardened, Linux-based firewall that provides controlled transfer of data at a defined interface between internal and external networks or between segments of the internal network. The EAL4+ certification attests to secunet wall's ability to prevent a wide range of threats to the local network.

secunet wall consists of a packet filter and a management system. The packet filter performs the security functions for rule-based filtering of IPv4 and IPv6 traffic.

The management system enables convenient control and administration of the production systems. Monitoring and logging takes place via a central and additional syslog or SNMP service that can be installed on the management station, for example.

What can secunet do for you?

The basis for planning robust protection of the network against unauthorised access is a security policy, which covers all security-related requirements. With its experience from numerous successful projects, secunet can provide support with the generation of such a concept.

The scope of our services ranges from design, planning and configuration to maintenance and support for system solutions. This includes adaptation of the individual components to the structures of the specific usage environments.

Management and packet filters

Scope of delivery:
secunet wall is provided as a complete solution consisting of hardware, software and support. The management system can be installed as a software solution on any Linux-based system.

Performance features

- Use of a Linux system minimalised and hardened under security conditions
- Persistent storage of configuration data and rules, e.g. on HDD or USB memory stick
- IP filter mechanisms (IP tables/net filters)
- Detailed logging via SNMP and syslog
- IPv4 and IPv6 support
- Georedundancy and high availability
- Policy-based routing
- Bridge, bonding and VLAN support
- Simple, fast rollout – even in large environments
- Secure, flexible, GUI-supported central administration
- Effective recovery via CD/USB boot concept (e.g. after a power or hardware outage); installation on hard drive optional

- Combination of the high security standards of a hardware solution with the flexibility of a software firewall
- Parallel administration by multiple administrators
- Integration of the management system onto in-house hardware possible
- Simple licensing model, user- and IP address licensing based on the number of production and management systems.
- Scalable, powerful hardware with the ability to upgrade to 10 GBit interfaces

Security-relevant aspects of the management connection

The packet filters have a separate management interface for communication with the management station. This allows the live system to be connected to the management station via a dedicated, separate network. The impact of DoS attacks can also be circumvented in this way.

Cryptographically secured protocols are used for the security-relevant functions in the communication between the management and the components. Remote administration is carried out via SSH and is possible with public key authentication.

Technical data

	Fujitsu RX 1330–M4 performance hardware	Syslogic COMPACT 81–S entry hardware
Performance features		
System	PY RX1330M4 / LFF / hot-plug SV / red. Fan	COMPACT81-SBC1
CPU	Intel® Xeon® E-2224 4C / 4T 3.40 GHz	Intel® Atom™ ×7-E3950 2.00 GHz (burst) | 1.6 GHz Clock – Quad Core
Memory	16 GB	8 GB
Hard drive	240GB SSD SATA 6G	2 GB CFast storage card
Power connection		
Voltage supply	100 ~ 240V, 50 / 60 Hz redundant power supply	9 – 30 V DC
Power consumption (operation)	approx. 264 W	approx. 300 W
Operating environment		
Operating temperature	5 °C – 45 °C	0 °C – 50 °C
Operating humidity range	10 – 85 % non-condensing	10 – 85 % non-condensing
Interfaces		
Management interface	Management LAN traffic can be routed to shared onboard Gbit LAN port	Management LAN traffic can be routed to shared onboard Gbit LAN port
Ports	4× USB 3.0 (2× 3.1 Gen1 Type A front, 2× 3.1 Gen2 Type A, rear) 2× USB 2.0 (rear) 1× VGA (front) 1× RS-232 (COM)	1× USB 3.0 (Type A) 1× USB 2.0 (Type A) 1× display port 1.2
LAN connections	1× dedicated management LAN port for iRMC S4 (10/100/1000 Mbit/s) 2× 1 Gbit Cu Intel I350-T2 (onboard) 4× 1 Gbit Cu Intel I350-T4 LP Intel® Ethernet Server Adapter I350-T4 4× 10Gb SFP+ LP Intel® Ethernet Server Adapter X710-DA2	1× dedicated management LAN port (10/100/1000 Mbit/s) 4× Ethernet 10/100/1000 with Intel I210 (RJ45)
Dimensions		
W × H × D	482.6 (cover) / 435.4 (housing) x 42.8 × 572 mm	Approx. 174 × 47 × 127 mm (without mounting bracket)

**More information:
secunet.com**