

GPX 1000 Carrier Appliance

X-Serie

xUTM appliances with ultra-high performance and reliability

The gateProtect Carrier Appliance GPX 1000 is designed for networks of unlimited size. It includes a powerful active/passive HA mode, very fast Xeon processors, redundant server hard drives and a powerful redundant power supply. Only the highest quality server hardware components are used. This combination of redundancy and high quality hardware ensures a reliability rating of 99.97%.

The appliance has been designed to meet specialised requirements from customers. For example it is possible to install optional fibre optic network cards or additional hard drives in Raid mode. The variability allows already very high levels of basic performances reliability to be increased as require.



eGUI®-Technology

The new eGUI® technology from gateProtect is remarkable for its ergonomic approach to the processing operation. The display, even of sometimes very different applications, is always consistent and delivers the information required by the user for the current operation only. A measure of the quality of the gateProtect operator concept are the principles governing the design of software dialogue, as formulated in ISO 9241, part 110.

Extended User Authentication

Most modern firewall systems support proxy-based user authentication. This means that only those services which work with proxies such as HTTP or FTP can be issued to specific users. The gateProtect firewall has rule-based Extended User Authentication. This allows any number of services to be assigned individually to one user or a group of users. These services can be provided with all the known additional options such as proxies or web filters. If a user logs on to the firewall from a computer, all the assigned services for the computer in question are enabled.

1. Web browser/UA Client:
logon is via an HTTPS connection.

2. Single sign-on:
Kerberos automatically passes the log-on to the domain to the firewall.

VPN Gateway (SSL with X.509 Certificates + IPSec)

gateProtect offers the most commonly used forms of current site-to-site and Road Warrior VPN connections via IPSec and SSL. Wizards and the eGUI® technology help with the management and set up of these connections. In addition, the firewall generates external configuration files when the VPN connections are created. These files can be used for setting up single click connections and also for site-to-site connections when importing on the firewall at a remote site.

Furthermore, gateProtect offers an IPSec and SSL site-to-site solution with X.509 certificates which can work in bridge mode as an option. For a normal bridge, two or more network cards are linked to form a logical network. gateProtect not only allows this for network cards but also for VPN-over-SSL connections. This makes it possible to treat remote computers exactly as if they were in the local network.

Traffic Shaping & QoS / Up- & Download

The traffic shaping facility from gateProtect is one of the most comprehensive implementations on the market. Maximum and minimum bandwidth can be specified for each object on the desktop. Based on this, it is possible to manipulate the traffic for each service. Bandwidth distribution can be configured at any level of detail. Another special feature of the gateProtect solution is the prioritisation of data packets in the VPN tunnel with QoS. This is important for time-critical applications where a delay would not be desirable. For example, gateProtect makes it possible to use VoIP via a VPN tunnel for interference-free telephone calls, irrespective of the utilisation of the tunnel for RDP or data download, for instance.

High Availability

The high availability of gateProtect firewall systems is based on an active/passive system where a secondary firewall is installed in parallel with the primary firewall. The secondary firewall synchronises itself constantly with the primary firewall using dedicated connections. It can therefore at any time take over the work of the primary firewall, should this fail, without any manual intervention.

Furthermore, the status of the primary firewall is monitored by different systems. If any problems are detected in the firewall, it switches itself off. The secondary firewall enables the synchronised configuration and can continue operating in the place of the primary firewall immediately. Downtime is minimised and problems can be dealt with under less pressure.

HTTPS Scan

It is not possible to scan HTTPS traffic on the firewall with the products from most other suppliers. Malware such as trojans and viruses exploit this open door to enter an internal network unhindered.

gateProtect is one of the few manufacturers to close this door with their xUTM appliances. gateProtect software can also scan encrypted HTTPS connections in the data traffic for viruses and other malware.

To do this, the data flow is decrypted at the firewall, analysed and, if no viruses are found, re-encrypted and sent on its way again.

Load Balancing

gateProtect load balancing distributes the data traffic with the Internet to different routes. The firewall then decides which way the Internet is accessed each time a connection is established.

As a rule, this distribution is based on protocols. gateProtect also makes it possible to assign each individual connection to a route. This allows the utilisation of Internet connections to be planned in great detail and optimised.

Features

Firewall

- _ Layer function
- _ Zoom function
- _ Single Sign-On (xUA)
- _ Packet filter
- _ NAT
- _ DHCP Server
- _ DMZ
- _ Bridging
- _ VLAN
- _ Application Level

High Availability

- _ High Availability (activ/passiv)
- _ Redundant power supply
- _ Raid (Hardware „HotSwap“)

Internet

- _ Failover
- _ Webblocking
- _ Mail filter
- _ Concurrent Connections
- _ Load Balancing
- _ Traffic Shaping

Interception

- _ Syslog
- _ SNMP (Traps)
- _ IDS
- _ Monitoring
- _ Reporting
- _ Statistics (Statistics-Client)

Optional (UTM products)

- _ Spam filter
(Commtouch Technologie)
- _ Virus filter
(Kaspersky Technologie)
- _ Web filter
(Cobion / IBM Technologie)

Feature overview

Firewall technology

Firewall rules - timecontrolled
 Packet filter
 Adaptable Proxies
 VoIP-Proxy
 Bridging
 Stateful Inspection & Proxy combined
 NTP-Server/-Client
 Masquerading
 DynDNS

WAN

Support for xDSL and ISDN
 Support for TCP, UDP, ICMP, GRE, ESP, AH protocols
 Support for virtual IP addresses
 Support for DynDNS
 Failover
 Concurrent Connections
 Load Balancing
 Traffic Shaping & QoS

eGUI®

Graphical Desktop (drag & drop)
 Layer function
 Zoom function

Management

Graphical Client (Data encryption with 4096 Bit)
 User management (specific rights for special settings)
 Role based administration
 Auditing able
 SSH-Support for CLI

Authentication/Authorisation

Active Directory (NT Domain)
 openLDAP + Kerberos
 Single Sign-On

Proxies

HTTP
 FTP
 POP3
 SMTP
 SIP (VoIP)
 HTTPS

Security features

DMZ
 Web Blocking (URL)
 DHCP-Client & Server
 NAT-Support
 Application Level
 High Availability

VPN protocols

PPTP
 SSL/TLS over X.509
 IPSec over X.509/IKE
 NAT-T

External VPN Client (IPSec & SSL)

Interception

SNMP
 Syslog
 IDS
 Monitoring
 Reporting
 Statistics
 Dedicated statistics client

Filter (optional)

Spam filter
 Content filter
 Virus filter

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Performance

FW throughput

4.5 Gbps

VPN throughput

300 Mbps

eMails per diem

500.000

Concurrent connections

2.000.000

Hardware Specification

CPU

INTEL® XEON Quad Core (2.0 GHz)

Board

INTEL®

Memory

4096 MB

Hard disk

2x 160 GB HDD (24/7)
 Hardware Raid (HotSwap)

Power supply

Redundant

Network interfaces

10-12 Ports
 100 MBit: 0
 1.000 MBit: 10-12

Dimensions DxWxH (mm)

662 x 422 x 88

Noises (db)

69

* dependent from activated Proxys, IDS, Application Level & number of active vpn connections

