

Clarity · Perfection · Security



gateprotect[®]
xUTM Appliances

Company

Command Center

xUTM Appliances

eGUI® Technology

Appliance overview

Features

www.gateprotect.com



Welcome to gateProtect

IT security is justifiably one of the subjects given very high priority by management nowadays. There are many scenarios posing a threat to corporate data in IT networks and new situations arise constantly. This is a highly technological problem which security management administrators can counter only with very sophisticated systems at the cutting edge of IT development.

However, the biggest security risk faced by today's IT networks is that in order to effectively combat the attacks, the complexity of the integrated safety functions is by necessity rising which makes operating these systems increasingly complicated and difficult.

Errors made when operating and making settings for firewall systems are therefore the cause of 95% of security lapses in corporate IT systems.

The new patented eGUI® (ergonomic Graphic User Interface) technology developed in the gateProtect laboratories solves precisely this problem.

gateProtect specialises in the development and marketing of consistently user-oriented high-end IT security solutions. The gateProtect Command Center and the xUTM appliances combine every modern security and network feature into one system.

gateProtect systems improve the safety and efficiency of IT management systems many times over.

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Dennis Monner
CEO gateProtect

gateProtect improves efficiency and IT security

gateProtect AG Germany is a leading manufacturer of IT security solutions for networks and focuses on firewall systems, xUTM appliances, network management systems and VPN clients.

gateProtect solutions combine state of the art security and network features such as firewalls, bridging, VLAN, single sign-on, traffic shaping, QoS, IPSec/SSL (X.509), IDS/IPS, web filters, virus filters, real-time spam detection and HTTPS proxy in one system.

Apart from the high-level of technology, all gateProtect products have a special feature: their uniquely ergonomic operability. gateProtect is the only

manufacturer in the world which implements the ISO norm 9241 guidelines consistently in all their systems.

With the unique and patented eGUI® (ergonomic graphic user interface) technology and the new "Command Center", gateProtect has set a new standard in the configuration and management of firewall systems.

The new eGUI® technology delivers a significant improvement to effective corporate IT security and at the same time makes routine system maintenance much more efficient. As a result, gateProtect customers make noticeable savings on operating costs.



Please see our website for many more references: www.gateprotect.com

Customers and references

32,000 installations in Europe are firm proof of the confidence enjoyed by the gateProtect brand. German customers include well-known organisations and institutions such as TÜV Thüringen (safety monitoring), E.ON Energie, Mercedes Benz, Galileo Satellite Systems, Die Bahn (German Railway

operator), Kneipp Werke (herbal products manufacturer), Constantin Film, the Technical University in Dresden and many more. gateProtect addresses small and medium companies in every sector as its core target group.



Consistently user-oriented, also in support

Thanks to the eGUI® technology, gateProtect supplies 90% less support than its competitors. gateProtect turns this situation to its advantage, providing a high quality of support that is not achieved elsewhere on the market.

gateProtect delivers support on the customers' premises and through its own employees, which means that highly qualified network administrators who constantly undergo training are always availa-

ble for our customers, a guarantee that the quality of support remains consistently high. Depending on the service agreement, telephone customer support is offered 24/7 and with response times of 0-2 hours.

All this means that the quality of the gateProtect support system is unparalleled in Europe.

A technical support
employee



IT Security made in Germany

gateProtect is a founder member of the “IT Security made in Germany” (ITSMIG.e.v.) initiative supported by the Federal Ministry of Economics and Technology.

This initiative is an association of German IT security companies. Members include well-known names such as Siemens, Avira, Genua and gateProtect.

Working closely with the Federal Ministry, their shared aim is to develop awareness of German IT skills on an international level and to make efficient use of the foreign markets they share.

The initiative is supported by the Federal Ministry for Economics and Technology (BMWi) and

operates as a Public Private Partnership (PPP). It is organised and managed by the Fraunhofer Institute for Safe Information Technology SIT.

Please go to www.itsmig.de for more information.



**Bundesministerium
für Wirtschaft
und Technologie**

An employee at the gateProtect
development laboratory





Voluntary commitment

Potential buyers of IT security products will ask: How much security does the product offer? Must I be prepared for hidden access or weak encryption mechanisms? Must I assume that the product includes elements that I cannot control?

The legal situation in Germany is clear: Companies are permitted to manufacture and sell IT security products with any level of encryption and without hidden access options.

Some members of the “IT Security made in Germany” initiative are exploiting this opportunity. gateProtect has explicitly committed itself to products without hidden access and signed the voluntary declaration, which includes the following provisions.

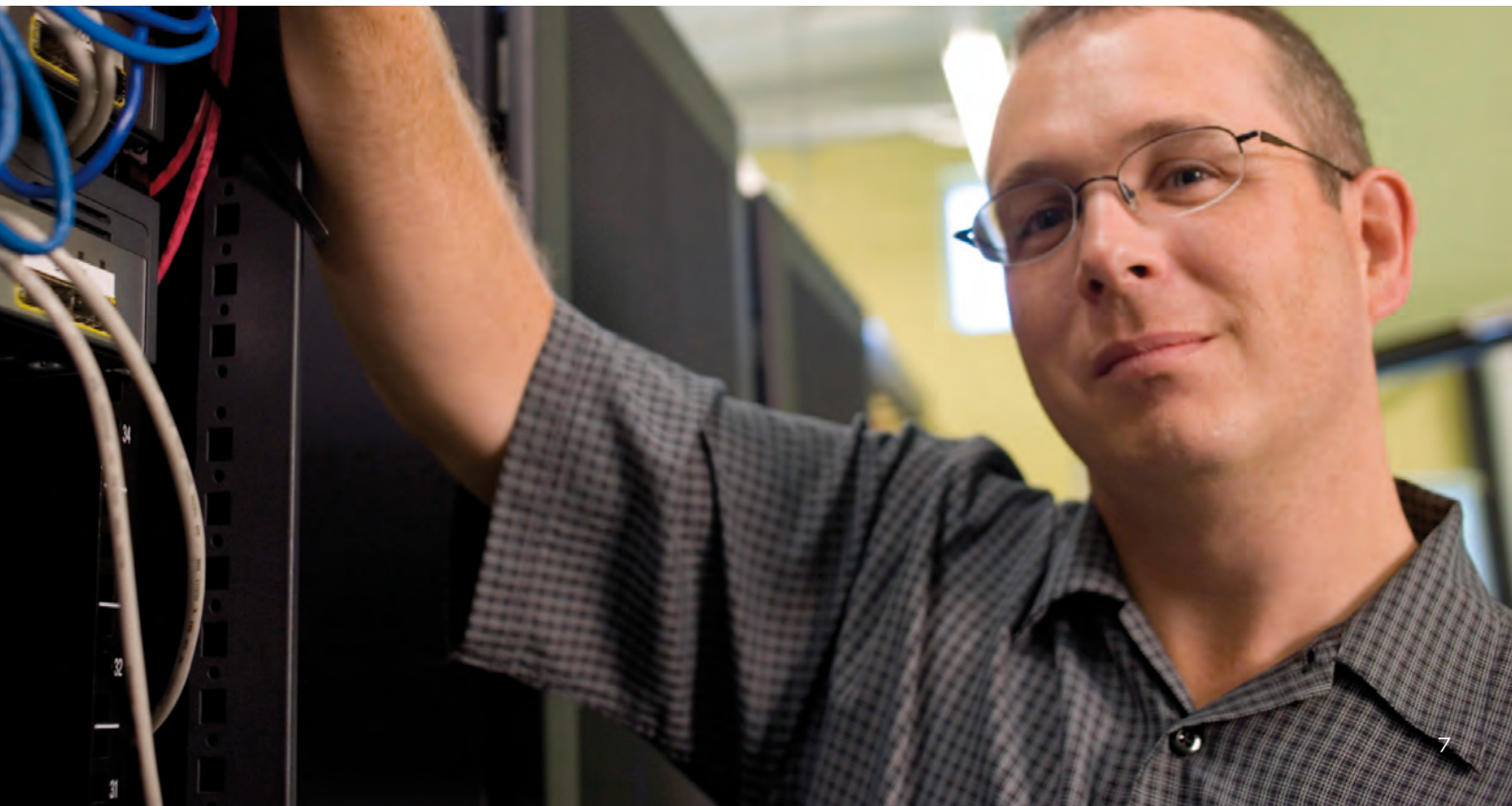
1. We undertake only to manufacture security products without hidden access options.

2. Our products do not contain any hidden access identifiers and access mechanisms which would allow a third party unmonitored access to a customer’s computer or enable a third party to deactivate security-relevant functions.

3. Our products do not transmit concealed cryptographic codes, neither fully nor in part, nor do they transmit access identifiers.



Protection from interception is guaranteed





Management, configuration and monitoring worldwide of any number of gateProtect xUTM appliances

Command Center

The Command Center allows up to 500 gateProtect xUTM appliances or firewall systems to be managed, configured and monitored.

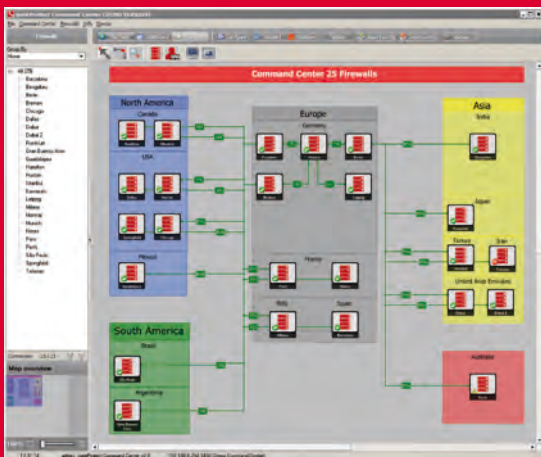
All gateProtect appliances, from the GPO 75 to the GPZ 2500, can be managed and configured from the central Command Center. This is particularly important for companies which use several firewall systems or are planning rollouts on a large scale.

The new Command Center effectively improves achievable security many times over and at the same time leads to huge improvements in the efficiency of routine maintenance, reducing the relative costs of operation significantly.

Furthermore, with the unique integrated eGUI® technology gateProtect delivers a quantum leap in the configuration and management of firewall systems.

An overview of the most important functions

- Central overview of all firewall systems**
- Direct and immediate access to each firewall**
- Automatic and central backup of all connected firewall systems**
- Central import of:**
 - updates of any number of firewall systems.
 - standard configurations of some firewall systems (for larger-scale rollouts)
 - licence keys and their management
- Central configuration of new installations with VPN (VPN Wizard)**
- Monitoring of all VPN connections and central disconnection if required.**
- Zoom function: detailed view of each firewall system**
- Central monitoring of functional status and utilisation of all firewall systems**
- Central notification and categorisation of alerts**



Detailed view of each firewall system

Central monitoring of functional status and utilisation of all firewall systems

Central notification and categorisation of alerts

The gateProtect xUTM Appliances:
GPO 75, GPO 125, GPA 250, GPA 400,
GPX 800, GPX 1000, GPZ 2500



xUTM Appliances

gateProtect solutions combine the latest security and network features such as firewalls, bridging, VLAN, single sign-on, traffic shaping, QoS, IPSec/SSL (X.509), IDS/IPS, web filters, virus filters, real-time spam detection and HTTPs proxy into one system.

Please go to www.gateprotect.com/features for a detailed overview of all the features offered by the xUTM appliances.

Feature highlights of the gateProtect xUTM systems

- _Extended User Authentication (xUA)
- _Extended VPN (xVPN)
- _VPN Client
- _Traffic Shaping & QoS / up and download
- _HTTPS Scan

Integrated Unified Threat Management Tools

- _Virus filtering
- _Web filtering
- _Spam filtering

Extended User Authentication
for all services, not just HTTP

High availability
With synchronisation over different channels

Load Balancing
at the gateway, distribution of services

Traffic Shaping and Quality of Service
also in VPN tunnels

Virus filter
with real HTTPS scan

Spam filter
with real-time detection

Web filter
effective combination of URL and content filtering

Extended VPN
all services available via SSL

Extended User Authentication (xUA)

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 which allows any number of services to be assigned 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.

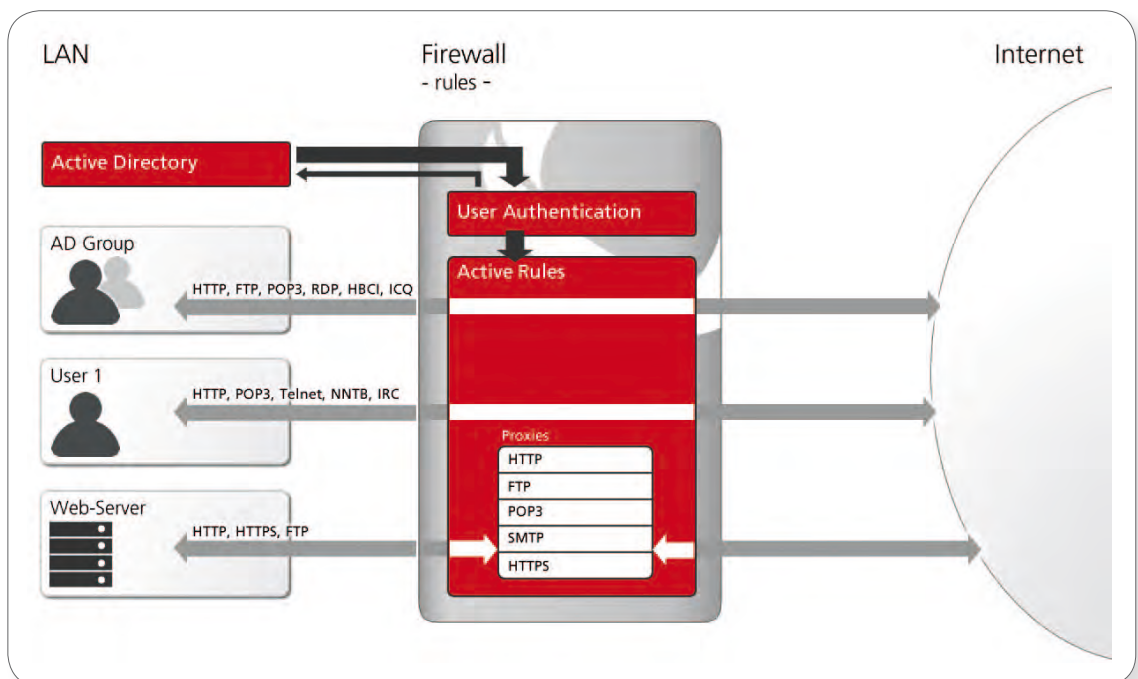
If a user logs on to the firewall from a computer, all the assigned services for the computer in question are enabled.

gateProtect offers you two ways of logging onto the firewall:

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.

The benefits of gateProtect Extended User Authentication

- _ enables services at user level
- _ individual configuration of services at user level
- _ configuration of services for users and active directory groups
- _ enables services in an intranet
- _ future-proof, allowing configuration of future services
- _ Single sign-on via Kerberos on logging onto the Windows domain
- _ Browser login allows independence from operating system



Schematic representation of xUA

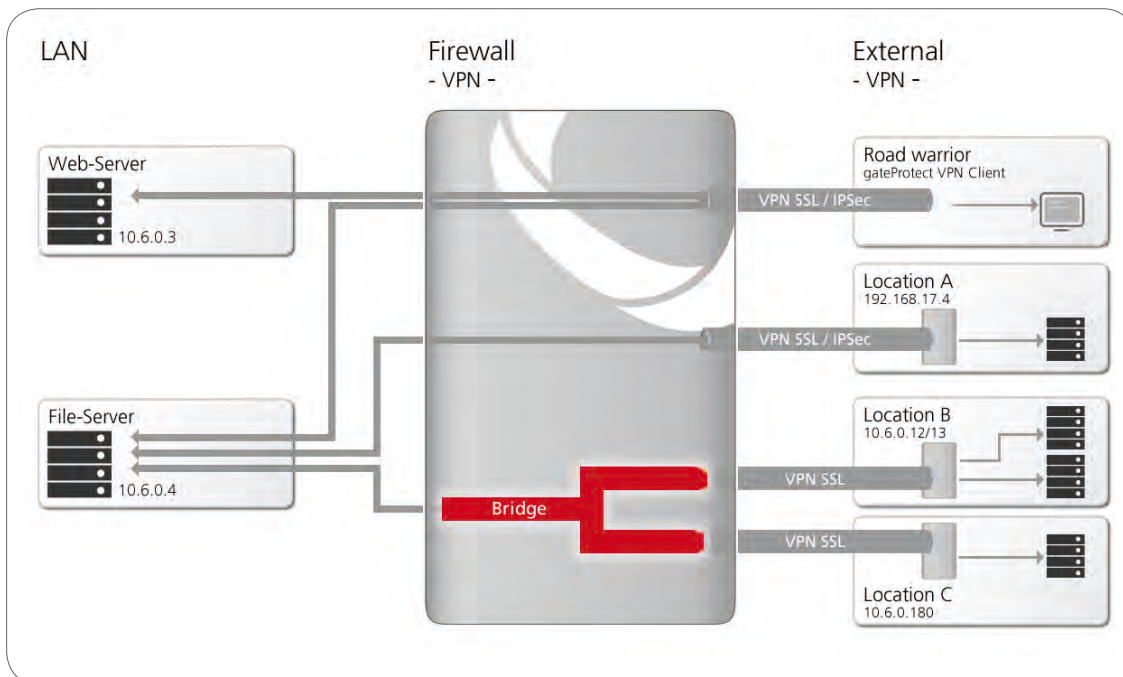
Extended VPN (xVPN)

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 as if they were in the local network.

The benefits of gateProtect xVPN

- _ High standard of security in SSL-mode with X.509 certificates.
- _ Single click connection for simple set up of Road Warrior connections and home workstations
- _ Very simple connection to remote networks with bridge mode
- _ Easy and uncomplicated to set up with eGUI® technology
- _ Full compatibility with third-party systems as all current standards are supported



Schematic representation of xVPN

VPN-Client

gateProtect has developed its own VPN client for connecting mobile end-devices and home-based workstations. This supports both IPSec and also VPN-over-SSL.

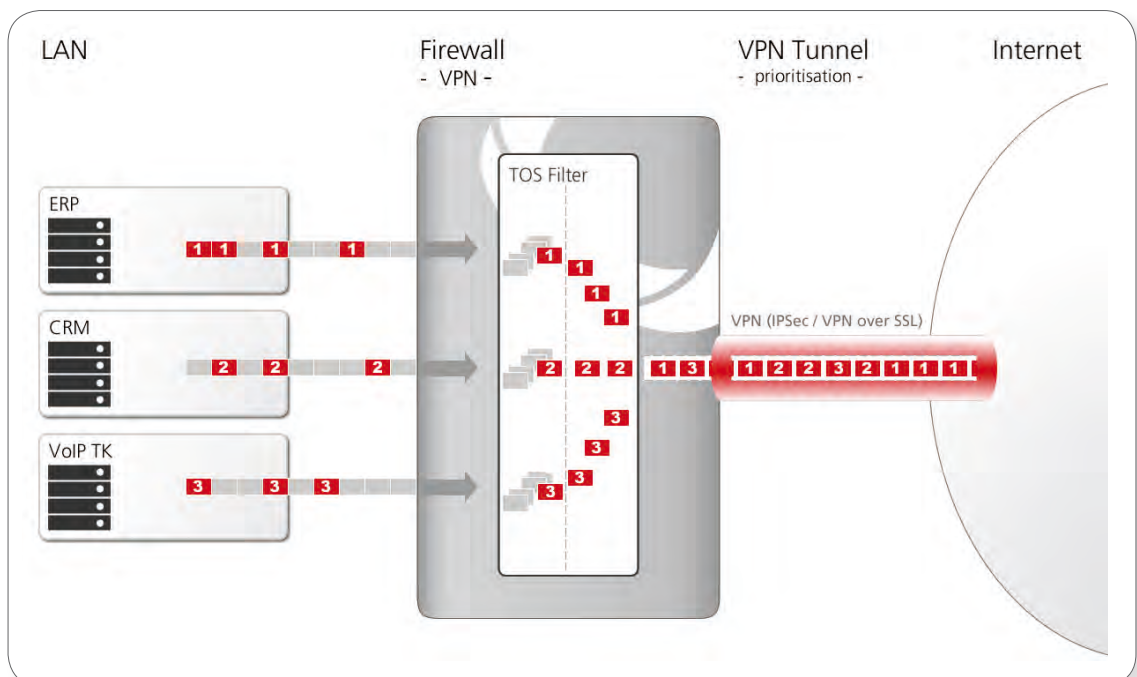
Many suppliers only work with web browser based systems. In SSL mode, the gateProtect VPN client allows unlimited access to every service via the VPN tunnel, provided these are permitted in the rules. This means that a large number of applications such as terminal servers can be operated through an SSL-VPN tunnel.

With the use of X.509 certificates, gateProtect achieves a high standard of security for VPN-over-SSL similar to that of certificate-based IPSec connections. However, here it is possible to use the considerably higher flexibility offered by the VPN-over-SSL tunnel.

The VPN Client supports the single click connection developed by gateProtect. Working with the configuration file which is exported from the firewall, it is possible to set up the VPN tunnel with a single mouse click.

The benefits of the gateProtect VPN client:

- _high level of security with X.509 certificates for VPN-over-SSL
- _works perfectly with gateProtect Firewalls
- _high compatibility with IPSec and VPN-over-SSL
- _simple to install with a single click connection
- _all services can be used via the VPN-over-SSL tunnel



Schematic representation of QoS in the VPN tunnel



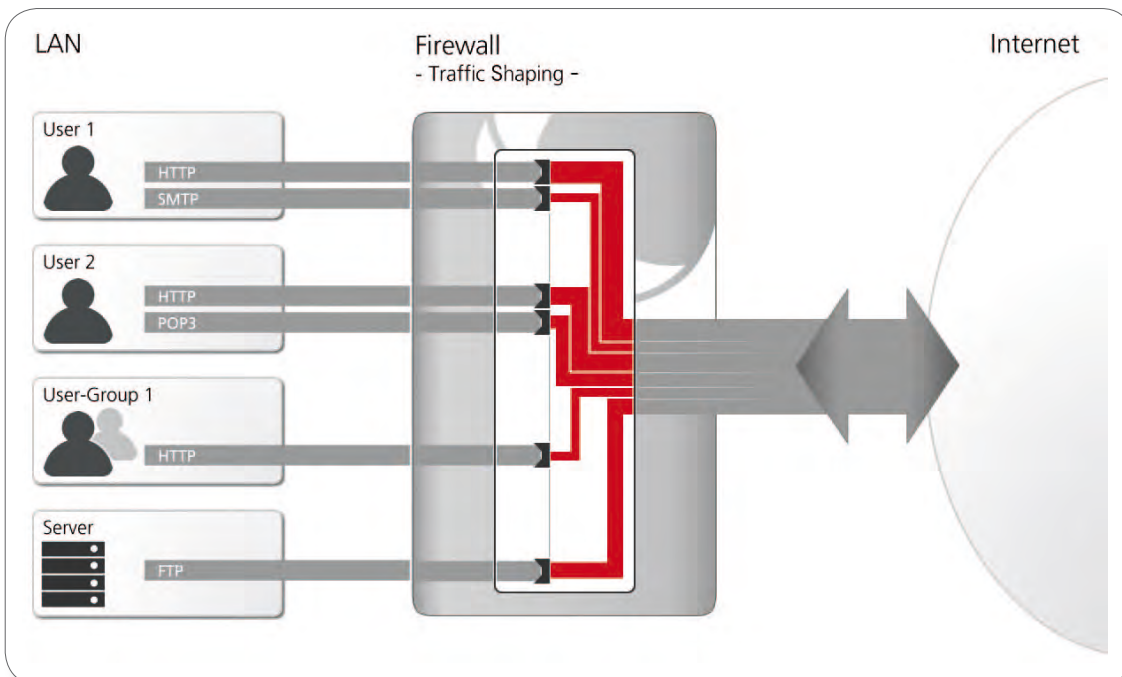
Traffic Shaping & QoS / up and download

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 configuration desktop (users, computers, groups etc). 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.

gateProtect traffic shaping and QoS in comparison with the competition:

- _Comprehensive configuration options for traffic shaping
- _Up and download shaping
- _Quality of Service in the VPN tunnels
- _Traffic Shaping settings at any level of detail



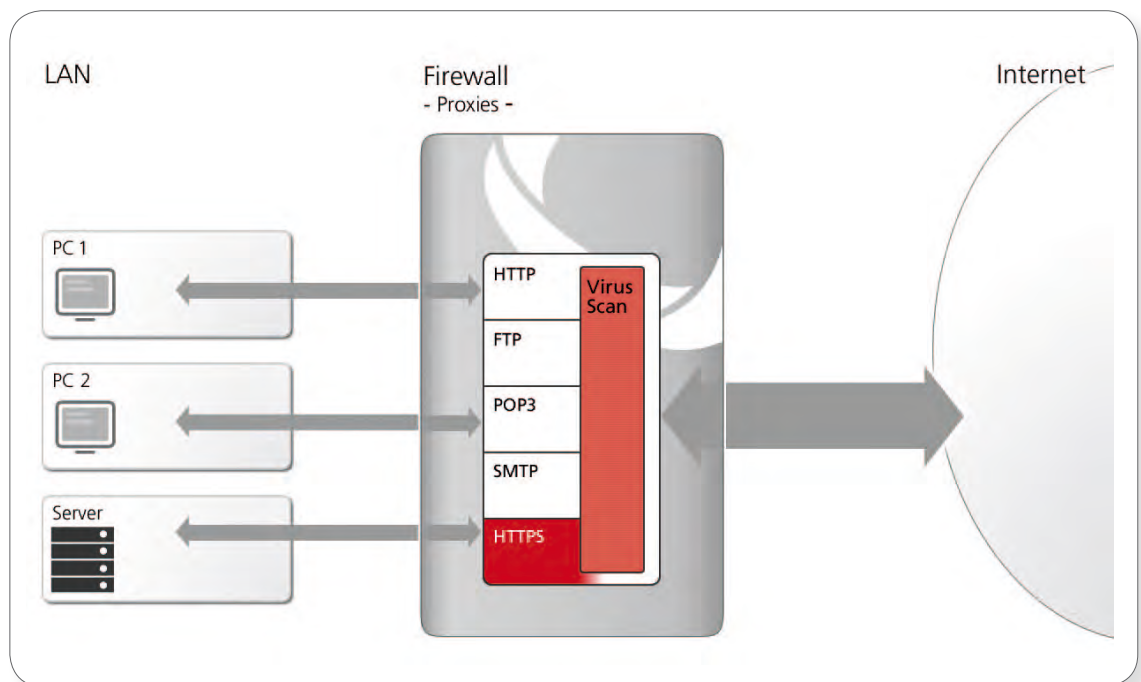
Schematic representation of xTS

HTTPS Scan

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

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.

gateProtect is one of the few manufacturers to close this door with their xUTM appliances. gateProtect software can also scan encrypted HTTPS



Schematic representation of HTTPS Scan



UTM products

gateProtect has entered into partnerships with internationally renowned manufacturers in the field of virus and spam protection and of content filtering. A direct OEM partnership arrangement guarantees that products are fully up-to-date. They are integrated as a fixed component of the firewall and are actively supported by the eGUI® technology.



Virus filter

A well-respected antivirus software manufacturer known worldwide for its outstanding technology and short response time to new viruses. The Kaspersky Lab's team of virus analysts provides the quickest release of emergency updates during virus outbreaks.

Kaspersky® Anti-Virus consistently leads comparisons of detection rates among antivirus solutions, with a false positive rate close to zero.

Web filter

The GlobalView Web Filtering solution leverages its unique „in the cloud“ infrastructure to provide unprecedented breadth of web coverage.

The solution localizes responses specifically to the needs of end-customers, avoiding the „one size fits all“ approach of traditional solutions.

Spam filter

With its unique technology and its Outbreak Detection Centers monitoring mail traffic throughout the world, the Anti-Spam-Engine achieves an above-average spam detection rate of over 97% with a minimum of false positives. With nearly two decades in the email security industry, gateProtect provides matchless insight into threats, blocking harmful sites at the zero hour, often long before users are exposed to them.

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www.gateprotect.com



Perfectly ergonomic human-system interaction with the gateProtect eGUI®

ergonomic Graphic User Interface

With the eGUI®, the ergonomic graphic user interface, gateProtect elevates secure and efficient operation to a previously unachieved level.

With the risk of security lapses caused by setting errors and the management of IT security systems involving a steadily growing workload it is becoming necessary to find a new approach. The solution is the patented eGUI® technology from gateProtect.

The specifications for this gateProtect development were based on the issues and requirements

described in ISO norm 9241 for ergonomic human-machine interaction.

gateProtect is the only supplier worldwide to fully comply with all seven design principles set out in the ISO norm. With the GUI® technology integrated in all its products, gateProtect achieves highest levels of reliability and makes it possible to carry out all the administrative procedures much more quickly.



eGUI® Technology and ISO norm 9241

The biggest security risk faced by today's IT networks is that in order to effectively combat attacks, the safety functions integrated in them must be increasingly complex. Without a doubt this makes operating these systems equally complex and the risk of user error rises exponentially. The reason lies in the many interactions of the settings which cannot be shown clearly, or not at all, on commonly available consoles.

Operating and setting errors in IT security systems are therefore the cause of 95% of the safety lapses suffered by companies.

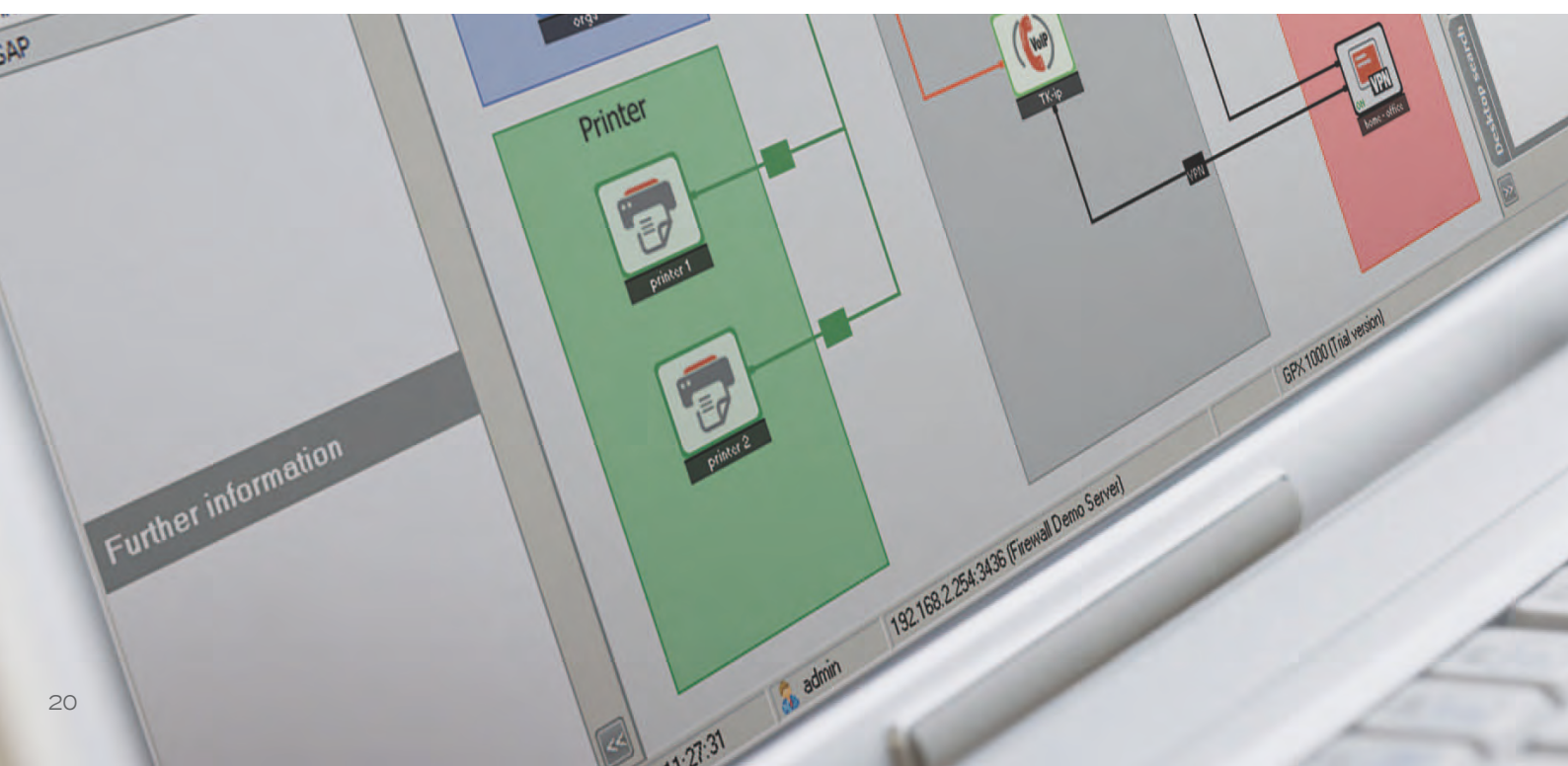
The eGUI® (ergonomic Graphic User Interface) technology developed in the gateProtect laboratories solves this problem. The new user interface is remarkable for its ergonomic approach to the processing operation. The display, even of sometimes very different applications, is always consistent and delivers only the information required by the user for the current operation.

A measure of the quality of the gateProtect operator concept are the ergonomic principles governing human-machine interaction, as formulated in ISO 9241, part 110.

Some benefits of the eGUI®

- _ Visual feedback immediately supplied for each setting
- _ Self-explanatory functions
- _ Central overview of all active services
- _ Immediate overview of the whole network configuration
- _ Layer and zoom function for networks up to 10,000 users

eGUI®
ergonomic graphic
user interface





The seven design principles as specified in DIN EN ISO 9241 part 110

1. Suitability for the task

“A dialogue is suitable for the task if it supports the user in carrying out his or her job effectively and efficiently.”

2. Self-descriptiveness

“A dialogue is self-descriptive if each step of the dialogue is immediately comprehensible through feedback from the dialogue system or an explanation is given at the request of the user.”

3. Controllability

“A dialogue is controllable if the user is able to initiate the dialogue sequence and to influence its direction and speed until the objective is achieved.”

4. Conformity with expectations

“A dialogue conforms to expectations if it is consistent and corresponds to the user’s attributes. For example, the user’s knowledge of his or her area of work, his or her education or experience and to generally recognised conventions.”

5. Error tolerance

“A dialogue is error tolerant if the result intended from the work can be achieved despite recognisably incorrect entries either with no or with minimum need for correction by the user.”

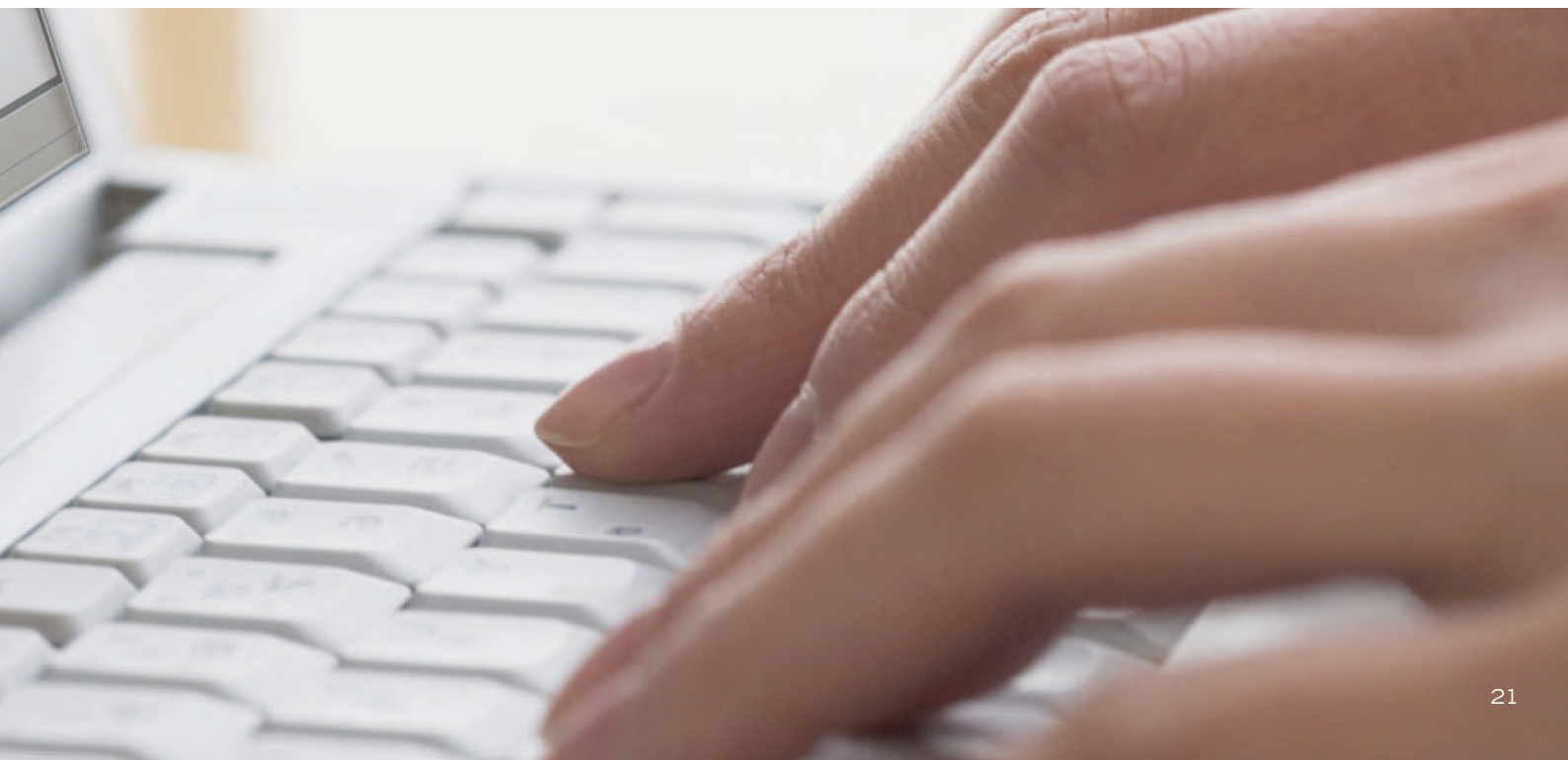
6. Suitability for individualisation

“A dialogue is individualisable if the dialogue system allows adaptation to the requirements of the task and the individual abilities and preferences of the user.”

7. Support for learning

“A dialogue supports learning if it helps the user to learn the dialogue system and guides him or her through it.”

gateProtect is the only supplier worldwide to fully comply with all seven design principles set out in the ISO norm. With the eGUI® technology integrated in all its products, gateProtect achieves highest levels of reliability and administrative procedures can be completed much more quickly.



gateProtect Appliance overview

The xUTM firewall appliances from gateProtect AG offer a very high level of flexibility and they include all standard security features.

Despite the use of cutting edge security technology, the xUTM Appliances are particularly easy to use on a daily basis.

0-Serie

GPO 75

10 User*

✓ 4 LAN



Performance throughput

Firewall	200 Mbps
VPN	50 Mbps
concurrent connections	50.000

GPO 125

25 User*

✓ 4 LAN



Performance throughput

Firewall	200 Mbps
VPN	70 Mbps
UTM	35 Mbps
concurrent connections	150.000

A-Serie

GPA 250

100 User*

✓ 4 LAN



Performance throughput

Firewall	800 Mbps
VPN	120 Mbps
UTM	90
concurrent connections	300.000

GPA 400

250 User*

✓ 6 LAN



Performance throughput

Firewall	1.4 Gbps
VPN	190 Mbps
UTM	140 Mbps
concurrent connections	500.000

X-Serie

GPX 800

500 User*

✓ 8 LAN



Performance throughput

Firewall	3.0 Gbps
VPN	1.000 Mbps
UTM	500 Mbps
concurrent connections	1.000.000

GPX 1000

1 000 User*

✓ 12 LAN



Performance throughput

Firewall	5.0 Gbps
VPN	1.500 Mbps
UTM	700 Mbps
concurrent connections	1.300.000

GPZ 2500

10 000 User*

✓ 18 LAN



Performance throughput

Firewall	9.0 Gbps
VPN	2.500 Mbps
UTM	1.100 Mbps
concurrent connections	2.500.000

Overview of features

xUTM Appliance	GP0 75	GP0 125	GPA 250	GPA 400	GPX 800	GPX 1000	GPZ 2500
eGUI* (ergonomic Graphic User Interface)							
Central configuration desktop	x	x	x	x	x	x	x
Layer-Function	x	x	x	x	x	x	x
Zoom-Function	-	-	x	x	x	x	x
High availability							
High availability (Active-Passive)	-	x	x	x	x	x	x
Redundant power supply	-	-	-	-	-	x	x
Redundant disks (Raid)	-	-	-	-	-	x ¹	x ¹
Firewall							
LAN	4	4	4	6	8	12	18
Patch Management	x	x	x	x	x	x	x
Certificate Management (CRL, OCSP)	x	x	x	x	x	x	x
Packet filter	x	x	x	x	x	x	x
NAT	x	x	x	x	x	x	x
DynDNS	x	x	x	x	x	x	x
DHCP-Server	x	x	x	x	x	x	x
DMZ	x	x	x	x	x	x	x
User authentication	x	x	x	x	x	x	x
Single-SignOn	x	x	x	x	x	x	x
QoS	x	x	x	x	x	x	x
Bridging	x	x	x	x	x	x	x
V-LAN	x	x	x	x	x	x	x
Routing (RIP v2, OSPF)	x	x	x	x	x	x	x
Application Level	-	x	x	x	x	x	x
Traffic Shaping	-	x	x	x	x	x	x
Internet							
Failover	-	x	x	x	x	x	x
Webblocking	-	x	x	x	x	x	x
Mailfilter	-	x	x	x	x	x	x
Concurrent connections	-	-	x	x	x	x	x
Load Balancing	-	-	x	x	x	x	x
Proxies							
HTTP	-	x	x	x	x	x	x
FTP	-	x	x	x	x	x	x
POP3	-	x	x	x	x	x	x
SMTP	-	x	x	x	x	x	x
SIP (VoIP)	-	x	x	x	x	x	x
HTTPS	-	-	-	x	x	x	x
VPN							
Site to site							
SSL (X.509 certificates)	x	x	x	x	x	x	x
SSL (X.509 certificates) + Bridgemode	x	x	x	x	x	x	x
IPSec (X.509 certificates, PSK, XAUTH, L2TP)	x	x	x	x	x	x	x
Road warrior							
IPSec (X.509 certificates, PSK, XAUTH, L2TP)	x	x	x	x	x	x	x
SSL (X.509 certificates)	x	x	x	x	x	x	x
PPTP	x	x	x	x	x	x	x
Interception							
Sys-Log	x	x	x	x	x	x	x
SNMP (Traps)	-	x	x	x	x	x	x
IDS	-	x	x	x	x	x	x
Monitoring	-	x	x	x	x	x	x
Reporting	-	x	x	x	x	x	x
Statistics	-	x	x	x	x	x	x
Statistics Client	-	x	x	x	x	x	x
Optional (UTM Products)							
Virus filter	-	opt.	opt.	opt.	opt.	opt.	opt.
Spam filter	-	opt.	opt.	opt.	opt.	opt.	opt.
Web filter	-	opt.	opt.	opt.	opt.	opt.	opt.

x¹ - Hardware „Hotswap“

What can we do for you?



gateprotect[®]
xUTM Appliances

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