



Security Gateway Series

CLAVISTER
WE ARE NETWORK SECURITY

Clavister Security Gateway Series – Hardware Appliances

Clavister SG10 Series

Clavister SG50 Series



System Performance	SG12	SG15	SG51	SG53	SG55	SG57
Firewall Performance (Mbps)	200	200	150	175	200	200
VPN Performance (Mbps)	25	25	40	50	60	70
Concurrent Connections	4 000	4 000	4 000	8 000	16 000	32 000
Concurrent VPN Tunnels	2	2	25	50	100	200
Ethernet Interfaces	2 x 10BASE-T/100BASE-TX 4 x 10BASE-T/100BASE-TX		3 x 10BASE-T/100BASE-TX 7 x 10BASE-T/100BASE-TX			
Virtual Interfaces (VLAN)	4	4	4	8	32	64
Virtual Routers	4	4	5 included (upgradable to 10)			
Users	25	50	Unlimited			
Form Factor	Desktop			Desktop		

Specifications subject to change without further notice.

For product license options and support options, please visit: www.clavister.com or contact your local Clavister Sales Representative.

"The increase in network speed that we have achieved with Clavister is like the difference between night and day."

Hans Engren, Network Administrator, Tain Operations Ltd.

Clavister Security Gateway Series

Clavister Security Gateway Series is our award-winning, comprehensive network security product line, purposely built to manage security on many levels, with maximum performance and ease-of-use. Powered by Clavister CorePlus – our own the network security operating system, Clavister Security Gateway Series is available as turnkey, hardware appliances, software appliances and as virtual appliances. This gives you the ultimate freedom to choose the best possible security solution for your specific needs.

Regardless if you need a low-cost, effective firewall solution for small office installations or a high-performance clustered Unified Threat Management (UTM) solution for a Service Provider or enterprise installation, the Clavister Security Gateway Series is the right choice.

Clavister Security Gateway Series – Hardware Appliances

The hardware appliance products range from small, desktop appliances to 19" rack-mountable systems supporting a wide range of applications and network infrastructure. This powerful set of hardware appliances deliver firewall performance ranging from 50 Mbps to 7 Gbps, offering flexible connectivity options and supports the full UTM stack of services.

The Clavister SG10 and SG50 Series are frequently used as small office/branch office appliances where as the more powerful Clavister SG3200 and SG4300 Series are used for high-performance multi-threat security solutions in larger networks. When redundancy and carrier-grade resilience is key factors in your network, than the right choice is the ATCA-based Clavister 6000 Series.

Clavister Security Gateway Series – Software Appliances

If you have standardized on a specific hardware platform or have special hardware requirements, the software appliance product range will suit your needs more appropriately. The software appliance product supports the same feature set and UTM services as the hardware appliances, but enables you to install on your own specific hardware platform.

Clavister Security Gateway Series – Virtual Appliances

Clavister Virtual Security Gateway Series is the leading virtual security solution for enterprises, service providers and telecom operators. The Clavister Virtual Security Gateway Series offers the same powerful UTM services and features as its hardware appliance and software appliance siblings. However, the main difference is that the Clavister Virtual Security Gateway Series runs inside the virtual environment and can therefore be managed as any other virtualized applications.

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Clavister SG3200 Series



Clavister SG4300 Series



Clavister 6000 Series



Clavister SG3200 Series				Clavister SG4300 Series					Clavister 6000 Series	
SG3210	SG3230	SG3250	SG3270	SG4310	SG4320	SG4330	SG4350	SG4370	SG6010 Blade	
1 000	1 500	2 500	3 500	1 500	3 000	4 000	5 000	7 000	4 000	
100	150	250	250	600	800	1 000	1 500	2 500	300	
32 000	128 000	256 000	256 000	1 000 000	2 000 000	3 000 000	4 000 000	5 000 000	5 000 000	
250	400	600	700	1 000	2 000	3 000	5 000	10 000	10 000	
6 x 10BASE-T/100BASE-TX/1000BASE-T				6 x 10BASE-T/100BASE-TX/1000BASE-T 4 x SFP (Mini-GBIC)					2 x 10BASE-T/100BASE-TX/1000BASE-T 4 x SFP (Mini-GBIC)	
64	128	256	256	64	128	256	512	1 024	4 096	
5 included (upgradable to 25)				5 included (upgradable to 500)					5 included (upgradable to 1 000)	
Unlimited				Unlimited					Unlimited	
19" Rack Mountable (1U)				19" Rack Mountable (1U)					19" ATCA Chassis	

Clavister Security Gateway Series Highlights

Clavister CorePlus

At the heart of the Clavister Security Gateway Series lays Clavister CorePlus – our in-house developed, high-performance security network operating system. Every line of code is crafted to ensure that it delivers maximum performance at all times. We take pride of delivering a product that we have full control over, rather than stitch together a solution based on a mix of open-source components.

Flexible and Adaptable

Not all networks are created equally. The vast difference in network configurations requires a network security gateway to be able to accommodate these differences. Clavister Security Gateway Series gives you the freedom to set routing policies with extreme granularity. There are a vast number of variables that can be used to construct policy roles to meet the most varied network installation.

Big on Performance – Low on Maintenance

The Clavister Security Gateway Series have support for Clavister Service Provisioning Network (CSPN). This high-speed network ensures that all UTM services are kept updated and current from newly emerging threats. This gives system administrators the freedom to concentrate on running their network without having to worry about the having the latest UTM security patch installed.

License Scalability

One of the most important aspects of the Clavister Security Gateway Series is scalability. The Clavister xPansion Lines licensing concept gives you the ability to start with your performance and functionality needs today with the ability to incrementally upgrade your Clavister Security Gateway product in the future as your organization grows.

Rich on Security

By integrating best-in-class Unified Threat Management (UTM) security functionality, such as Intrusion Detection and Prevention (IDP), Anti-Virus, Anti-Spam and Web Content Filtering with a stateful firewall with deep packet inspection, VPN connectivity, the Clavister Security Gateway Series is able to protect your organization against everything from network layer attacks to application layer threats, and even viruses and worms.

Flexible Traffic Management Control

The highly sophisticated bandwidth management capabilities in the Clavister Security Gateway Series makes it possible not only to guarantee bandwidth for business critical applications or servers, but also to optimize the entire traffic flow in your network and avoid inefficient bandwidth usage.

Low Total Cost of Ownership

Our goal is to provide a complete security solution more cost efficient than our competitors. Clavister Security Gateway Series, with its unique combination of integrated security features, world-class service and support, and its powerful administration system provide the best possible price/performance ratio with a low Total Cost of Ownership (TCO).

High Performance

Scalable performance with unsurpassed maximum bandwidth, concurrent connections and simultaneous VPN tunnels makes the Clavister Security Gateway Series the ideal choice even in the most demanding environments like Internet Service Provider Networks, Data Centers, and telecom operators.

Clavister Security Gateway Series – Software Appliances

Clavister SG30 Series

Clavister SG200 Series



System Performance	SG33	SG35	SG36	SG37	SG230	SG240	SG250
Firewall Performance (Mbps)*	50	50	50	50	200	200	200
VPN Performance (Mbps)*	50	50	50	50	200	200	200
Concurrent Connections*	4 000	4 000	4 000	4 000	32 000	32 000	32 000
Concurrent VPN Tunnels*	25	50	25	50	100	100	100
Maximum Ethernet Interfaces	3	3	4	4	3	4	5
Virtual Interfaces (VLAN)	4	4	4	4	32	64	64
Virtual Routers	5 included (upgradable to 10)				5 included (upgradable to 10)		
Users	Unlimited				Unlimited		
Form Factor	Software				Software		

* Specification is hardware (host) dependent.

Specifications subject to change without further notice.

For product license options and support options, please visit: www.clavister.com or contact your local Clavister Sales Representative.

"Clavister security products met our new post-merger requirements completely and the successful conversion of our IT infrastructure was due particularly to the Clavister solution."

Achim Bludau, project manager,
Börsen AG.

Unified Treat Management

The entire range of Clavister Security Gateway Series supports our full stack of Unified Treat Management (UTM) services, including Intrusion Detection & Prevention (IDP), Anti-Virus and Web Content Filtering.

Intrusion Detection & Prevention

Intrusion Detection & Prevention (IDP) is an in-line subsystem designed to protect critical environments, such as telecom operator, service provider and enterprise networks. Thanks to the unique combination of security functions, high performance and timely updated signatures, IDP provides a multi-layered security solution capable of stopping cyber threats before they can harm your business. By blocking the attacks before they enter your network, IDP ensures maximum network uptime. No more cleaning up after cyber attacks or performing ad-hoc emergency patching, and instead you can concentrate on maximizing your network uptime.

Anti-Virus

Anti-virus protects against malicious code carried in file downloads which may be downloaded as part of a Web page in an HTTP transfer or in an FTP download, or more commonly as an attachment in an email delivered through SMTP. Our anti-virus implementation supports a unique stream-based anti-virus format that is able to keep you protected against "in-the-wild" viruses by scanning files regardless of file size and it with support for thousands of concurrent downloads. Our virus definitions files from Kaspersky Labs are automatically provided to you by the Clavister Service Provisioning Network (CSPN) providing you with zero-day protection with no administration intervention. This provides you with maximum protection and no administration overhead.

Web Content Filtering

While Internet is considered one of the more important technologies in almost all businesses it is also one of the biggest sources for security issues and misuse. Web Content Filtering provides three strategies for filtering out Web content that is deemed inappropriate or counterproductive for an organization or group of users. These strategies give you maximum the flexibility to tailor Web Content Filter to support your organization, enabling your users to use the Web in a safe and secure way.

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Clavister SG300 Series

Clavister SG600 Series

Clavister SG1100 Series

Clavister SG2100 Series



SG360

SG680

SG1110

SG2160

300

600

1 000

2 000

300

600

1 000

2 000

64 000

128 000

256 000

512 000

200

600

600

1 000

6

8

10

16

64

128

128

128

5 included (upgradable to 10)

5 included (upgradable to 10)

5 included (upgradable to 10)

5 included (upgradable to 10)

Unlimited

Unlimited

Unlimited

Unlimited

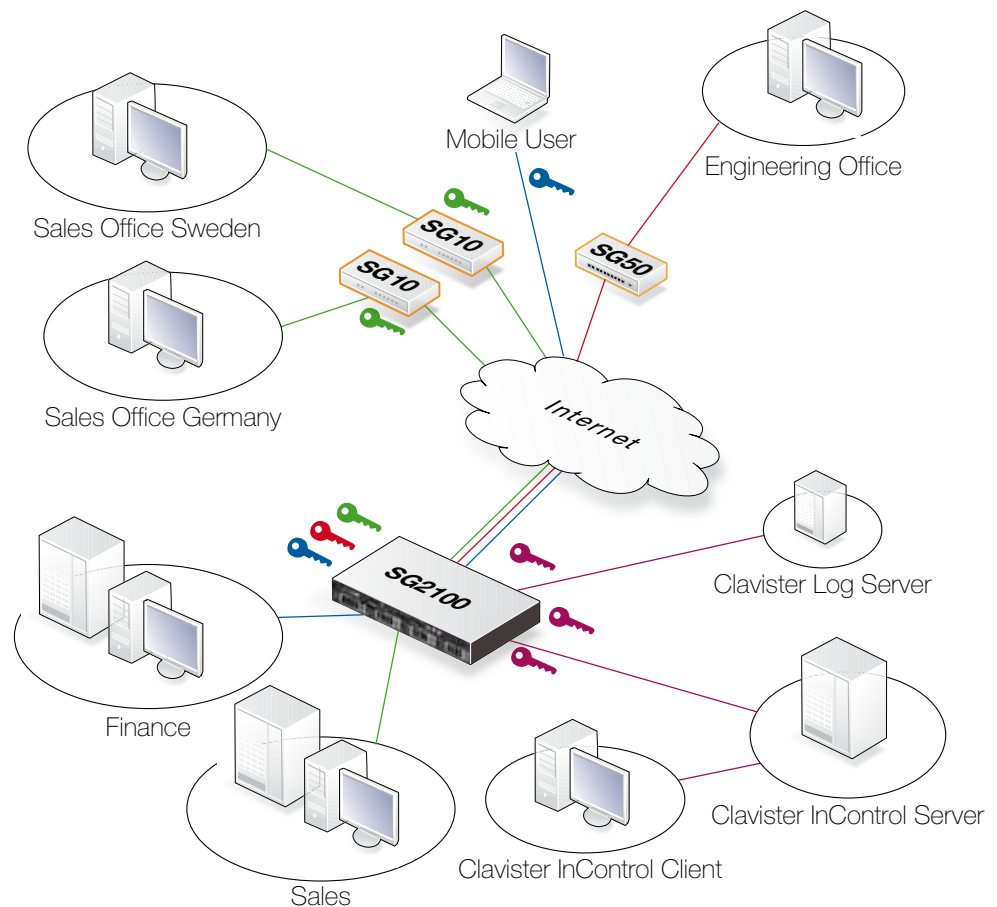
Software

Software

Software

Software

For information about the latest supported hardware, please visit: www.clavister.com/support/hcl.



Clavister Security Gateway Series – Virtual Appliances

Clavister SG20 Series

Clavister SG100 Series

Clavister SG500 Series

Clavister SG1000 Series



System Performance	SG21	SG110	SG510	SG1010
Firewall Performance (Mbps)*	50	200	500	1 000
VPN Performance (Mbps)*	50	200	500	1 000
Concurrent Connections*	4 000	16 000	64 000	256 000
Concurrent VPN Tunnels*	25	200	700	1 000
Maximum Ethernet Interfaces	3	5	7	10
Virtual Interfaces (VLAN)	4	64	128	512
Virtual Routers	5	5	5	5
Users	Unlimited	Unlimited	Unlimited	Unlimited
Form Factor	Virtual	Virtual	Virtual	Virtual
Supported Virtual Platform	VMware ESXi	VMware ESXi	VMware ESXi	VMware ESXi

* Specification is hardware (host) dependent.

Specifications subject to change without further notice.

For product license options and support options, please visit: www.clavister.com or contact your local Clavister Sales Representative.

"This new release allows us to add state-of-the-art virtual security appliance offerings to our product portfolio."

Kurt Glazemakers, VP Engineering
European Business Unit, Terremark
Worldwide, Inc.

"Clavister offers one of the most compelling virtual security solutions for virtualized environments."

Jorina van Rensburg, CEO Condyn, South
Africa

Flexibility, Scalability and Maximum Performance

All products in the Clavister Security Gateway Series are built for flexibility, scalability and maximum performance.

Flexibility

The Clavister Security Gateway Series can accommodate all types of applications and networks, whether it is a small home office or a remote branch office, or a large service provider installation or large enterprise network spanning several continents. We even let you choose if you want your network security solution to be physical appliances or virtual appliances.

This type of flexibility on how to structure your network security implementation is just one of the flexibility aspects; the Clavister Security Gateway Series is also extremely flexible when it comes to tailor your security needs. The Clavister CorePlus network security operating system powering the Clavister Security Gateway Series enables you to configure precise and very detail rules and policies. This gives you the flexibility to configure the exact security solution that your network requires.

Scalability

As your business grows so will your need for more performance. When you buy Clavister Security Gateway Series you have the ability to upgrade the performance without having to throw away your investment. Simply tap into the Clavister xPansion Line licensing model and upgrade your Clavister Security Gateway to another model within that product. This gives you the ability to start low and grow without getting penalized.

Maximum Performance

In today's converged networks security has to be implemented inter-departmentally with support for a wide range of network types, such as VoIP networks, Video Conference solutions and Local Area Networks (LAN). In these typical scenarios performance becomes a critical factor. Your security solution must handle this continuous demand for increased performance levels or it will become your central bottleneck.

We designed the Clavister Security Gateway Series to be one of the world's highest performing network security gateways, capable of up to 7 Gbps of firewall performance, 2 million concurrent connections and 1.4 million packets per second. This level of performance will ensure that you can continue to grow with your Clavister Security Gateway Series investment.

Clavister Security Gateway Series – Key Features

MODE OF OPERATIONS		IP ADDRESS ASSIGNMENT	
Layer 2 Mode (Transparent/Route Mode)	Yes/Yes	Static	Yes
Policy-Based NAT/PAT	Yes/Yes	DHCP Client, Server and Relay	Yes
Policy-Based Server Load Balancing	Yes	Proxy ARP	Yes
Virtual IP	Yes	PPPoE	Yes
ROUTING		LOG MONITORING	
Static Routing	Yes	Syslog Support	Yes
Policy-Based Routing (PBR)	Yes	Log Export (CSV) ¹	Yes
OSPF/OSPF over VPN	Yes/Yes	Real-Time Performance Monitoring	Yes
Multicast - IGMP	Yes	SNMP Polling/Traps	Yes
Source-Based Routing	Yes		
GRE	Yes		
APPLICATION LAYER GATEWAYS		TRAFFIC MANAGEMENT	
FTP/TFTP	Yes/Yes	Policy-Based Bandwidth Management	Yes
SIP/H.323 with NAT/SAT Support	Yes/Yes	Guaranteed Maximum Bandwidth	Yes
HTTP	Yes	Dynamic Bandwidth Balancing	Yes
SMTP/POP3	Yes/Yes	Priority Levels	Yes
CONTENT SECURITY		INTRUSION DETECTION AND PREVENTION	
Web Content Filtering	Yes	Stateful Pattern Matching	Yes
Audit/Blocking Mode	Yes	Protocol/Rate Anomaly	Yes/Yes
Classification Categories	30+	Insertion/Evasion Protection	Yes
URL Whitelisting/Blacklisting	Yes	Dynamic IP Blacklisting	Yes
Anti-Virus	Yes	Automatic Signature Updates	Yes
Stream-Based Signatures	Yes	Stateful Signatures	Yes
Automated Signature Updates	Yes	Component-Based Signatures	Yes
Per Devices Signature Service	Yes	Application Blocking	Yes
FIREWALL		MANAGEMENT	
Stateful Firewall	Yes	Clavister InControl Support	Yes
Deep Packet Inspection	Yes	Web-Based Management	Yes
Network Attack Detection/Prevention	Yes	Local Console (RS232/SSH)	Yes
DoS and DDoS Detection/Prevention	Yes	Command-Line Remote Management	Yes
TCP Reassembly	Yes	Remote Fail-Safe Operations	Yes
HIGH AVAILABILITY		USER AUTHENTICATION	
Firewall and VPN State Synchronization	Yes	LDAP Authentication	Yes
Device Failure Detection	Yes	External RADIUS Database	Yes, multiple servers
Dead Link, Gateway and Interface Detection	Yes	RADIUS Accounting	Yes
Interface Failover	Yes	CHAP, PAP	Yes
Route Failover	Yes	Web-Based Authentication	Yes
Average Failover Time	< 800 ms	Configurable HTTP/HTTPS Front-End	Yes
		xAuth VPN Authentication	Yes
VIRTUAL PRIVATE NETWORK (VPN)			
Encryption	AES, 3DES, DES, Blowfish, CAST-128		
Authentication	SHA-1, MD5		
IKE Modes	Main, Aggressive		
Perfect Forward Secrecy (DH Groups)	1, 2, 5		
X.509 Certificates, Pre-Shared Keys	Yes		
PKI Certificate Requests	PKCS#7, PKCS#11		
Self-Signed Certificates	Yes		
IPsec NAT Traversal (NAT-T)	Yes		
VPN Policy Selection Through	Firewall Rule Set, Routing, PBR		
VPN Tunnel Keep-Alive	Yes		
L2TP Client Server (LNS)	Yes		
PPTP Client Server (PNS)	Yes		

¹ Requires Clavister InControl, which is a separately licensed product. For more information regarding available options, please contact your local Clavister Sales Representative.

Security Gateway Management Options

Clavister offers you a wide range of management options to manage your Clavister Security Gateway Series products and services. Regardless if you choose a centralized management solution or use the built-in web-based management solution, all Clavister Security Gateways Series products and services are managed in the same way.

This gives you the freedom to mix and match Clavister Security Gateways and service as your network security demands without having to sacrifice manageability and ease of use.

Clavister InControl

Clavister InControl offers a comprehensive centralized management solution that will assist and help you perform daily tasks faster, easier and more streamlined. Its intuitive user interface and support for task-driven workflow management will guide you through complex and repetitive tasks, thus alleviating the burden of managing large installations.

Clavister Web Management

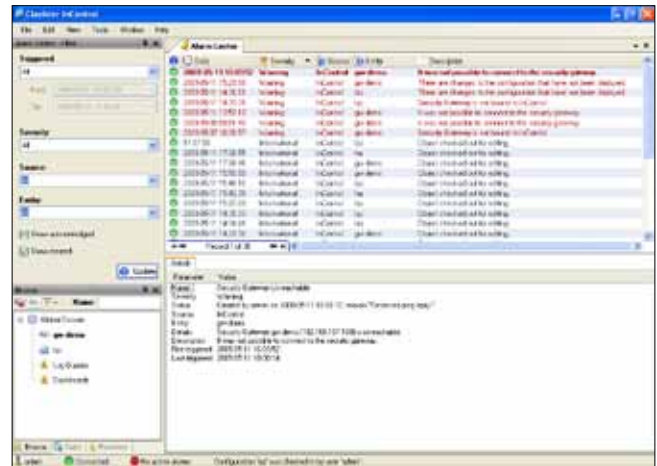
Clavister Web Management is an easy to use Web-based administration interface, which greatly simplifies product deployment. Clavister Web Management is perfect for managing a single Clavister Security Gateway or for smaller installations.

Command-Line Interface

All Clavister Security Gateway Series products also support a comprehensive command-line interface. It is a powerful tool for anyone who wants to build custom administration interfaces, or interact with external tools and systems.

Clavister InControl SDK

The Clavister InControl Software Development Kit (SDK) further extends the service integration ability of the Clavister Security Services Portfolio. The Clavister InControl SDK consists of an Application Programming Interface (API), developer documentation and code examples, offering customers and third-party integrators an easy way of developing custom integrated solutions for Clavister InControl Server.



Clavister InControl SDK is a separately licensed product. For more information, please download the **Clavister InControl SDK** brochure available from www.clavister.com.

Resources and Product Evaluation

To learn more about Clavister Security Gateway Series and Clavister UTM service, please visit the following areas:

Product Information	www.clavister.com/products/
Product Data Sheets	www.clavister.com/products/documentation
Product Documentation	www.clavister.com/support/documents
Product Evaluation Download	www.clavister.com/products/evaluation
Feature Briefs, White Papers	www.clavister.com/products/documentation

Contacting Clavister

For more information about Clavister and Clavister products, please contact your local Clavister Sales Representative or visit us at: www.clavister.com.

About Clavister

Since 1997, Clavister has been delivering leading network security solutions, providing commercial advantage to tens of thousands of businesses worldwide. The Clavister family of unified threat management (UTM) appliances and remote access solutions provide innovative and flexible network security with world-class management and control.

Clavister has pioneered virtual network security, and this along with its portfolio of hardware and software appliances gives customers the ultimate choice. Clavister products are backed by Clavister's award-winning support, maintenance and education program.

Headquartered in Sweden, Clavister's solutions are sold through International sales offices, distributors, and resellers throughout EMEA and Asia.

To learn more, visit www.clavister.com.

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