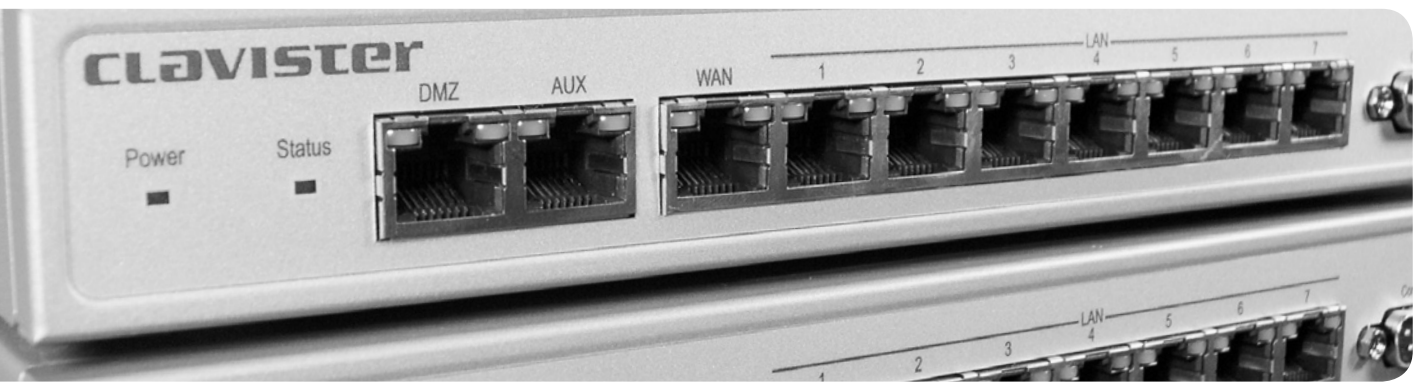


# Security Gateway 50 Series



**Clavister SSP™ Security Services Platform**  
firewall • VPN termination • intrusion prevention • anti-virus  
anti-spam • content filtering • traffic shaping • authentication

**CLAVISTER®**  
Protecting Values



- **Firewall**
- **VPN**
- **Intrusion Detection & Prevention**
- **Web Content Filtering**
- **Anti-Virus**
- **Anti-Spam**
- **Virtualization Technologies**
- **Bandwidth Management**
- **User Authentication**
- **Server Load Balancing**
- **High Availability Clustering**

## Clavister Security Gateway 50 Series

The Clavister Security Gateway 50 Series is a set of turn key, hardware-based, security products designed for small and medium-sized enterprises or similar organisations with equal needs and demands.

The 50 Series is based on the same award winning technology as all Clavister products which means extreme security, high performance and a versatile set of functionality.

## Versatile Security Solutions

All Clavister products are built to provide supreme and high-performing security at an unparalleled price performance ratio.

With a rich set of functionality such as Bandwidth Management, Office-to-Office VPN, User Authentication, High-Availability, Deep Inspection with Intrusion Detection and Prevention, Layer 7 Application Recognition, Content Filtering, Virtual Systems, Virtual Routers and Dynamic Routing capabilities, we do not only see our products as gateways in complex networks but also as business platforms that grow with your needs.

## We will not let a product failure ruin your business

You are well aware of that the health of your network is mission-critical. You are also well aware that redundant backup security solutions are usually designed for large enterprises with a matching price tag.

At Clavister we realized that even the smallest of networks is mission-critical, for its users. That's why we never hesitated to include High Availability backup support with interface failover functionality in the Clavister Security Gateway 50 Series.

### Product Highlights

#### Modularity

With the 50 series you can set security policies any way you want - from having a specific, detailed policy for every single user in your organisation to filtering by application, credentials, time of day or any one of a hundred other variables since we know that no two networks are alike.

#### Clavister CorePlus™

At the heart of the 50 Series, just as all Clavister SSP products, lies an in-house developed, high-performance kernel with an invisible attack surface and air-tight component integration. We write every line of code ourselves to ensure that it all works perfectly together at staggeringly high performance levels. This stands in direct contrast to most security products on the market which piece solutions together from several different sources.

#### Big on Performance - Low on Maintenance

With the 50 Series, just as with all other Clavister products, there are no time-consuming upgrades and service pack installations to be done (as is common with many other vendors). Any upgrades that are required (to handle newly emerging threats, for example) are provided by the Clavister Service Provisioning Network (CSPN).

#### Based on Clavister Service Oriented Security (SOS)™

Our goal is to allow customers the benefit of granularity and provide the greatest freedom to configure and optimize their security solution to exactly meet their specific needs. Our SOS design philosophy means that, where possible, we avoid integrating third-party code.

## Feature List

### System Performance and Capacity

	51	53	55	57
Plaintext Throughput (Mbps)	50	75	100	200
AES/3DES Throughput (Mbps)	20/20	20/20	40/40	40/40
Concurrent Connections	4,000	8,000	16,000	32,000
Concurrent VPN Tunnels	25	50	100	200
Ethernet Interfaces	3x100BASE-TX + 7x100BASE-TX			
Virtual Interfaces (VLAN)	4	8	32	64
Virtual Systems	5	5	5	5
Virtual Routers	5	5	5	5

## Feature List

### 50 Series

### Mode of Operation

Layer 2 Mode (Transparent Mode)	Yes
Layer 3 Mode (Route Mode)	Yes
Policy-Based NAT/PAT	Yes
Policy-Based Server Load Balancing	Yes
Virtual IP	Yes

### Firewall

Network Attack Detection/Prevention	Yes
DoS and DDoS Detection/Prevention	Yes
TCP Reassembly	Yes

### VPN – Virtual Private Networking

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 Rules Set, Routing, PBR
VPN Tunnel Keep-Alive	Yes
L2TP Client Server (LNS)	Yes
PPTP Client Server (PNS)	Yes

### Intrusion Detection and Prevention

Stateful Pattern Matching	Yes
Protocol Anomaly	Yes
Rate Anomaly	Yes
Insertion/Evasion Protection	Yes
Dynamic IP Blacklisting	Yes
Automated Signature Updates	Yes
Stateful Signatures	Yes
Component-based Signatures	Yes
Application Blocking	Yes

### Content Security

Web Content Filtering	Yes
Audit Mode	Yes
Blocking Mode	Yes
Classification Categories	> 30
URL Whitelisting/Blacklisting	Yes
Anti-Virus	Yes
Stream-based Signatures	Yes
Automated Signature Updates	Yes
Per Device Signature Service	Yes

### High Availability\*

Firewall and VPN State Synchronization	Yes
Device Failure Detection	Yes
Dead Link, Gateway and Interface Detection	Yes
Interface Failover	Yes
Route Failover	Yes
Average Failover Time	< 800 ms

## Feature List

### 50 Series

### Routing

Static Routing	Yes
Policy-Based Routing (PBR)	Yes
OSPF/OSPF over VPN	Yes/Yes
Multicast - IGMP	Yes
Source Base Routing	Yes
GRE	Yes

### IP Address Assignment

Static	Yes
DHCP Client, Server and Relay	Yes
Proxy ARP	Yes
PPPoE	Yes

### Application Layer Gateways

FTP/TFTP	Yes/Yes
SIP/H.323	Yes/Yes
NAT and SAT support	Yes
HTTP	Yes
SMTP/POP3	Yes/Yes

### Bandwidth Management

Policy-based Bandwidth Management	Yes
Guaranteed Maximum Bandwidth	Yes
Dynamic Bandwidth Balancing	Yes
Priority Levels	Yes

### Logging Monitoring

Clavister Firewall Logger	Yes
Syslog	Yes
Real-time Log Viewer	Yes
Command-line Log Query Tools	Microsoft Windows, Linux
Log Export Format	CSV
Real-time Performance Monitoring	Yes
SNMP Polling/Traps	Yes

### Management

Local Console	RS232
Command-line based Remote Management	Microsoft Windows, Linux
Graphical Enterprise Remote Management	Included in all products
Multi-Device Management	Yes
Remote Fail-safe Operation	Yes
Revision History	Complete Configurations

### User Authentication

External RADIUS User Database	Yes, multiple servers
RADIUS Accounting	Yes
CHAP, PAP	Yes
Web-based Authentication	Yes
Customizable HTTP(s) Front-End	Yes
XAuth VPN Authentication	Yes

### Dimensions and Weight

H x W x D (mm)	35 x 260 x 190
Weight	1,2 kg
Form Factor	Desktop
Power Supply (AC)	100-240V 50 to 60 Hz AC

### Regulatory and Safety Standards

Safety: UL	
EMC: FCC class A, CE class A	

### Environmental

Humidity: 20% to 95% non-condensing	
Operational Temperature: 0 to 55 C	
Vibration: 0.41 Grms2 (3-500 Hz)	
Shock: 30 G	

\* High Availability clustering only available for the Clavister Security Gateway 57

## Warranty

All products in the Clavister Security Gateway 10 Series come with a two (2) year standard RMA warranty and ninety (90) days Software Subscription covering all major and minor software releases counting from the Start Date.

Start Date means the earlier of Product registration or ninety (90) days following shipment from Clavister.

## Contact Information

General comments or questions:  
info@clavister.com

Sales questions:  
If you require product information, price lists, etc.  
sales@clavister.com

Partner questions:  
Questions related to the Clavister Partner Program  
partner@clavister.com

Technical Support:  
support@clavister.com

Ordering information:  
order@clavister.com

## About Clavister

Clavister - a Swedish privately owned company developing IT security products, including its award-winning Clavister Security Service Platform (SSP™). This service-oriented framework enables organizations to monitor network traffic, protecting critical business assets and blocking undesirable surfing. It will also protect you against intrusion, viruses, worms, Trojans, and overload attacks. It requires minimal servicing, with central administration, and has exceptionally flexible configuration possibilities. Its seamless scalability makes it easy to provision the perfect solution for any customer; be it small organizations, large Internet Service Providers, Managed Security Service Providers, or multimedia-ready telecom operators.

Clavister was founded 1997 in Sweden, with R&D and headquarters based in Örnsköldsvik and Sales and Marketing based in Stockholm. Its solutions are marketed and sold through International sales offices, distributors, and resellers throughout EMEA and Asia. Clavister also offers its technology to OEM manufacturers.

### Clavister SSP™ Security Services Platform

firewall • VPN termination • intrusion prevention • anti-virus  
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# CLAVISTER®

Protecting Values

## Clavister Security Gateway 50 Series

### Clavister Security Gateway 51

CLA-APP-SG51

#### Software Subscriptions - Major and Minor Releases

Standard Unit	12 Months	CLA-APP-SG51-SS12
Standard Unit	24 Months	CLA-APP-SG51-SS24
Standard Unit	36 Months	CLA-APP-SG51-SS36

#### Hardware Replacement - Next Business Day Shipment & Software Subscription Bundle

Standard Unit	12 Months	CLA-APP-SG51-SSHW12
Standard Unit	24 Months	CLA-APP-SG51-SSHW24
Standard Unit	36 Months	CLA-APP-SG51-SSHW36

#### License Upgrades

SG51 to SG53	License Upgrade	CLA-APP-SG51-SG53
SG51 to SG55	License Upgrade	CLA-APP-SG51-SG55
SG51 to SG57	License Upgrade	CLA-APP-SG51-SG57

### Clavister Security Gateway 53

CLA-APP-SG53

#### Software Subscriptions - Major and Minor Releases

Standard Unit	12 Months	CLA-APP-SG53-SS12
Standard Unit	24 Months	CLA-APP-SG53-SS24
Standard Unit	36 Months	CLA-APP-SG53-SS36

#### Hardware Replacement - Next Business Day Shipment & Software Subscription Bundle

Standard Unit	12 Months	CLA-APP-SG53-SSHW12
Standard Unit	24 Months	CLA-APP-SG53-SSHW24
Standard Unit	36 Months	CLA-APP-SG53-SSHW36

#### License Upgrades

SG53 to SG55	License Upgrade	CLA-APP-SG53-SG55
SG53 to SG57	License Upgrade	CLA-APP-SG53-SG57

### Clavister Security Gateway 55

CLA-APP-SG55

#### Software Subscriptions - Major and Minor Releases

Standard Unit	12 Months	CLA-APP-SG55-SS12
Standard Unit	24 Months	CLA-APP-SG55-SS24
Standard Unit	36 Months	CLA-APP-SG55-SS36

#### Hardware Replacement - Next Business Day Shipment & Software Subscription Bundle

Standard Unit	12 Months	CLA-APP-SG55-SSHW12
Standard Unit	24 Months	CLA-APP-SG55-SSHW24
Standard Unit	36 Months	CLA-APP-SG55-SSHW36

#### License Upgrades

SG55 to SG57	License Upgrade	CLA-APP-SG55-SG57
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### Clavister Security Gateway 57

CLA-APP-SG57

#### Software Subscriptions - Major and Minor Releases

Standard Unit	12 Months	CLA-APP-SG57-SS12
Standard Unit	24 Months	CLA-APP-SG57-SS24
Standard Unit	36 Months	CLA-APP-SG57-SS36

#### Hardware Replacement - Next Business Day Shipment & Software Subscription Bundle

Standard Unit	12 Months	CLA-APP-SG57-SSHW12
Standard Unit	24 Months	CLA-APP-SG57-SSHW24
Standard Unit	36 Months	CLA-APP-SG57-SSHW36

