

# Security Gateway 3100 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 3100 Series

The Clavister Security Gateway 3100 Series is a set of turnkey, hardware-based, security products designed for small and medium-sized enterprises or similar organisations.

The 3100 Series is based on the award-winning Clavister Security Service Platform which means super granular configurability, seamless scalability and a rich set of functionality.

### Security and Scalability

By integrating best-in-class security functions such as Intrusion Detection & Prevention, Firewall, VPN, Anti-Virus and Web Content Filtering, the Clavister Security Gateway 3100 Series is able to protect your organization against everything from network layer attacks to application layer threats even viruses and worms.

Additionally the 3100 series follows the Clavister xPansion Lines™ concept which lets you start with the model that matches your current needs and allows scaling to match your growth without any 'rip & replace'.

### Protect your Confidentiality

IPsec compliant VPN functionality is an integral feature of all Clavister Security Gateway products. With up to 750 simultaneous VPN tunnels and 130 Mbit/s VPN throughput, the Clavister Security Gateway 3100 Series is capable of meeting the most complex VPN needs. The Clavister Security Gateway 3100 Series is designed for communication. Supremely secure communication.

### Product Highlights

#### Modularity

With the 3100 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 3100 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 3100 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	3105	3110	3150
<b>System Performance and Capacity</b>			
Plaintext Throughput (Mbps)	100	200	300
AES/3DES Throughput (Mbps)	30/30	70/70	130/100
Concurrent Connections	16,000	64,000	128,000
Concurrent VPN Tunnels	250	500	750
Ethernet Interfaces	6 x 100BASE-TX		
Number of Virtual (VLAN) Interfaces	32	128	256
Virtual Systems	5 + up to 25 additional Virtual Systems		
Virtual Routers	5 + up to 25 additional Virtual Routers		

Feature List	3100 Series
<b>Mode of Operation</b>	
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
<b>Firewall</b>	
Network Attack Detection/Prevention	Yes
DoS and DDoS Detection/Prevention	Yes
TCP Reassembly	Yes
<b>VPN – Virtual Private Networking</b>	
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
<b>Intrusion Detection and Prevention</b>	
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
<b>Content Security</b>	
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
<b>High Availability*</b>	
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	3100 Series
<b>Routing</b>	
Static Routing	Yes
Policy-Based Routing (PBR)	Yes
OSPF/OSPF over VPN	Yes/Yes
Multicast - IGMP	Yes
Source Base Routing	Yes
GRE	Yes
<b>IP Address Assignment</b>	
Static	Yes
DHCP Client, Server and Relay	Yes
Proxy ARP	Yes
PPPoE	Yes
<b>Application Layer Gateways</b>	
FTP/TFTP	Yes/Yes
SIP/H.323	Yes/Yes
NAT and SAT support	Yes
HTTP	Yes
SMTP/POP3	Yes/Yes
<b>Bandwidth Management</b>	
Policy-based Bandwidth Management	Yes
Guaranteed/Maximum Bandwidth	Yes
Dynamic Bandwidth Balancing	Yes
Priority Levels	Yes
<b>Logging/Monitoring</b>	
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
<b>Management</b>	
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
<b>User Authentication</b>	
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
<b>Dimensions and Weight</b>	
H x W x D (mm)	44 x 440 x 270
Weight	4.4 kg
Form Factor	1U
Rack Mountable 19"	Yes
Power Supply (AC)	100-240V 50 to 60 Hz AC
Power Supply (DC)	36VDC to 72VDC
<b>Regulatory and Safety Standards</b>	
Safety: UL	
EMC: FCC class A, CE class A, VCCI class A	
<b>Environmental</b>	
Humidity: 20% to 95% non-condensing	
Operational Temperature: 5 to 55 C	
Vibration: 0.41 Grms2 (3-500 Hz)	
MTBF: 4 years	
Shock: 30 G	

For detailed and current technical specifications, please visit: [www.clavister.com](http://www.clavister.com)

\* Limited to Route/Port Failover for entry-level product SG3105

## Warranty

All products in the Clavister Security Gateway 3100 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

Ordering information:  
order@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

## 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 Örnköldsvik 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 Security Gateway 3100

### Appliances

Clavister Security Gateway 3105 (AC) CLA-APP-SG3105  
Clavister Security Gateway 3105 (DC) CLA-APP-SG3105-DC

Clavister Security Gateway 3110 (AC) CLA-APP-SG3110  
Clavister Security Gateway 3110 (DC) CLA-APP-SG3110-DC  
Clavister Security Gateway 3110 (AC), Failover Unit CLA-APP-SG3110-FO  
Clavister Security Gateway 3110 (DC), Failover Unit CLA-APP-SG3110-DC-FO

Clavister Security Gateway 3150 (AC) CLA-APP-SG3150  
Clavister Security Gateway 3150 (DC) CLA-APP-SG3150-DC  
Clavister Security Gateway 3150 (AC), Failover Unit CLA-APP-SG3150-FO  
Clavister Security Gateway 3150 (DC), Failover Unit CLA-APP-SG3150-DC-FO

## Clavister Security Gateway 3100 (continued)

### Software Subscriptions - Major and Minor Releases

#### 12 Months

Clavister Security Gateway 3105	CLA-APP-SG3105-SS12
Clavister Security Gateway 3110	CLA-APP-SG3110-SS12
Clavister Security Gateway 3110, Failover Unit	CLA-APP-SG3110-FO-SS12
Clavister Security Gateway 3150	CLA-APP-SG3150-SS12
Clavister Security Gateway 3150, Failover Unit	CLA-APP-SG3150-FO-SS12

#### 36 Months

Clavister Security Gateway 3105	CLA-APP-SG3105-SS36
Clavister Security Gateway 3110	CLA-APP-SG3110-SS36
Clavister Security Gateway 3110, Failover Unit	CLA-APP-SG3110-FO-SS36
Clavister Security Gateway 3150	CLA-APP-SG3150-SS36
Clavister Security Gateway 3150, Failover Unit	CLA-APP-SG3150-FO-SS12

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

#### 12 Months

Clavister Security Gateway 3105	CLA-APP-SG3105-SSHW12
Clavister Security Gateway 3110	CLA-APP-SG3110-SSHW12
Clavister Security Gateway 3110, Failover Unit	CLA-APP-SG3110-FO-SSHW12
Clavister Security Gateway 3150	CLA-APP-SG3150-SSHW12
Clavister Security Gateway 3150, Failover Unit	CLA-APP-SG3150-FO-SSHW12

#### 36 Months

Clavister Security Gateway 3105	CLA-APP-SG3105-SSHW36
Clavister Security Gateway 3110	CLA-APP-SG3110-SSHW36
Clavister Security Gateway 3110, Failover Unit	CLA-APP-SG3110-FO-SSHW36
Clavister Security Gateway 3150	CLA-APP-SG3150-SSHW36
Clavister Security Gateway 3150, Failover Unit	CLA-APP-SG3150-FO-SSHW12

### UTM Services

#### IDP Signature Update Service - 12 Months

Clavister Security Gateway 3105	CLA-APP-SG3105-IDP12
Clavister Security Gateway 3110	CLA-APP-SG3110-IDP12
Clavister Security Gateway 3150	CLA-APP-SG3150-IDP12

#### Anti-Virus Signature Update Service - 12 Months

Clavister Security Gateway 3105	CLA-APP-SG3105-KAV12
Clavister Security Gateway 3110	CLA-APP-SG3110-KAV12
Clavister Security Gateway 3150	CLA-APP-SG3150-KAV12

#### Web Content Filtering Service - 12 Months

Clavister Security Gateway 3105	CLA-APP-SG3105-WCF12
Clavister Security Gateway 3110	CLA-APP-SG3110-WCF12
Clavister Security Gateway 3150	CLA-APP-SG3150-WCF12

### xPansion Lines™ Upgrades

SG3105 to SG3110	License Upgrade	CLA-APP-SG3105-SG3110
SG3105 to SG3150	License Upgrade	CLA-APP-SG3110-SG3150
SG3110 to SG3150	License Upgrade	CLA-APP-SG3110-SG3150

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