

# Security Gateway 3100 Series



**Clavister SSP™ Security Services Platform**

firewall • VPN termination • intrusion prevention • anti-virus  
content filtering • traffic shaping • authentication

**CLAVISTER™**

**Control Freaks**



- **Firewall**
- **VPN**
- **Intrusion Detection & Prevention**
- **Web Content Filtering**
- **Antivirus\*\***
- **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 turn-key, 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 in other words 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, Antivirus 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 X-Pansion 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 as no two networks are alike

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.

#### Clavister CorePlus™ kernel

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 Ruleset, 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 White/Black Listing		Yes	
Antivirus *		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
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	Yes
H.323	Yes
NAT and SAT support	Yes
HTTP	Yes
SMTP *	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)	44x440x270
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% noncondensing	
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)

\* Release schedule to be announced

\*\* Limited to Route/Port Failover only in entry-level product 3105

### Warranty

All products in the Clavister Security Gateway 3100 Series come with a two (2) years standard RMA warranty and 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 is a leading developer of high-performance IT/IP security. The products, based on unique technology, include carrier-class firewalls and VPN solutions. They have been awarded preferred choice by international press and are in use today by thousands of satisfied customers. In short; In a world where people depend on information, Clavister provides complete security solutions more cost-efficient than any competitor, always with Your business in mind.

Clavister was founded 1997 in Sweden. Its R&D and headquarters is situated in Örnsköldsvik, Sweden and its solutions are marketed and sold through sales offices, distributors and resellers in Europe and Asia. Clavister also offers its technology to OEM manufacturers.

### Clavister Security Gateway 3105

#### 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 3105 (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

##### Antivirus 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

#### X-Pansion 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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