Security Gateway 4200 Series

Clavister SSP™ Security Services Platform

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

CLAVISTER®

WE ARE NETWORK SECURITY

CLAVISTER

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

Clavister Security Gateway 4200 Series

The Clavister Security Gateway 4200 series, equipped with 8 x Mini-Gbic (SFP), 2 x 1000BASE-TX and 4x100BASE-TX interfaces, is based on a purpose-built and highly optimized hardware platform, created using cutting-edge technology.

The Clavister Security Gateway 4200 series has been designed using a distributed processing hardware architecture to ensure high performance of plaintext and encrypted traffic. To further enhance VPN performance, a Cryptographic High Performance ASIC coprocessor is used to accelerate encrypted packet processing and Public Key Computations.

The combination of a distributed processing architecture and a rich set of functionality, including Intrusion Detection & Prevention, VPN, Anti-Virus, Web Content Filtering, Server Load Balancing and Bandwidth Management, makes the 4200 Series an ideal choice for any customer in need of a high perfomance solution.

Size does matter after all

We know that the secret of producing secure, high performing products lies in compactness and optimization. This is the reason why the 4200 Series is amongst the world 's highest performing network security gateways. The Clavister Security Gateway 4200 Series has an amazing throughput of up to 2 Gigabits plaintext and 1 Gigabit VPN throughput per second. Still, the products do not require more rack space than one height unit. The entire software footprint powering these products is less than 1,000 Kbytes in size. Now that's small.

Product Highlights

Modularity
With the 4200 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 4200 Series lies CorePlus™, 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 4200 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	4210	4230	4250
System Performance and Capacity			
Plaintext Throughput (Mbps)	750	1,500	2,500
AES/3DES Throughput (Mbps)	200/250	400/400	1,000/1,000
Concurrent Connections	256,000	512,000	1,000,000
Concurrent VPN Tunnels	1,000	2,000	5,000
Ethernet Interfaces	8xSFP (Mini-GBIC)*, 2x1000BASE-TX, 4x100BASE-TX		
Virtual Interfaces (VLAN)	512	1,024	2,048
Virtual Systems	10 + up to 500 additional Virtual Systems		
Virtual Routers	10 + up to 500 additional Virtual Routers		

Feature list	4200 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 Rule 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/ Blocking Mode	Yes
Classification Categories	> 30
URL Whitelisting/Blacklisting	Yes
Hourly Updates	Yes
Anti-Virus	Yes
Stream-based Signatures	Yes
Automated Signature Updates	Yes
Per Device Signature Service	Yes
High Availability	
Firewall and VPN State Syncronization	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	4200 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	
IDP Traffic Shaping	Yes
Policy-based Bandwidth Management	Yes
Guaranteed/Maximum Bandwidth	Yes
Dynamic Bandwidth Balancing	Yes
Priority Levels	Yes
Logging/Monitoring	
Clavister InSight Support	Yes
Syslog	Yes
Real-time Log Viewer	Yes
Command-line Log Query Tools	Yes
Log Export Format	CSV
Real-time Performance Monitoring	Yes
SNMP Polling/Traps	Yes
Management	
Web Based Management	Yes
Local Console	RS232/SSH
Command-line based Remote Management	Yes
Remote Fail-safe Operation	Yes
User Authentication	
LDAP Authentication	Yes
External RADIUS User Database	Yes, multiple servers
RADIUS Accounting	Yes
Web-based Authentication	Yes
Customizable HTTP(s) Front-end	Yes
XAuth VPN Authentication	Yes
Dimensions and Weight	
H x W x D (mm)	44 x 440 x 440
Weight	7 kg
Form Factor	1U
Rack Mountable 19"	Yes
Power Supply (AC)	100-240V 50 to 60 Hz AC
Power Supply (DC)	36VDC to 72VDC

Regulatory and Safety Standards
Safety: UL
EMC: FCC class A, CE class A, VCCI class A

Environmental
Humidity: 20% to 95% non-condensing
Operational Temperature: 5 to 55 C
Vibration: 0.41 Grms2 (3-500 Hz)
MTBF: 5 years
Shock: 30 G

For detailed and current technical specifications, please visit: www.clavister.com

CLAVISTER

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.

Warranty

All products in the Clavister Security Gateway 4200 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: sales@clavister.com
Partner questions: partner@clavister.com
Technical Support: support@clavister.com
Ordering information: order@clavister.com

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

CLAVISTER

WE ARE NETWORK SECURITY

www.clavister.com