

Security Gateway 4400 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



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

Unparalleled Resilience

The products in the Clavister Security Gateway 4400 Series are primarily designed to be used as central gateways in high load enterprise networks or in data centers where extreme plaintext and VPN performance and a rich set of functionality in combination with high resilience are critical factors.

The Clavister Security Gateway 4400 Series consists of four models, the Clavister Security Gateway 4410, 4430, 4450 and 4470, differentiated by performance.

Superior VPN Performance

The health of your network is mission-critical and network interruptions can cause serious financial damage. For this reason, all products in the Clavister Security Gateway 4400 Series support state and VPN synchronized clustering with port and route fail-over, hot-swappable redundant backup power supplies as well as replaceable fan modules.

The Clavister Security Gateway 4400 Series is specifically designed for maximum availability.

Apart from the impressive plaintext throughput, where the Clavister Security Gateway 4400 Series performs at up to 4 Gigabits per second, the products in this series are built for managing VPN traffic at high rates.

The Clavister Security Gateway 4400 Series of products deliver up to gigabit VPN throughput, using either AES or 3DES encryption algorithms.

Support for several thousand simultaneous VPN tunnels in combination with the high data rate make the Clavister Security Gateway 4400 Series ideal as central VPN gateways.

Product Highlights

Modularity

With the 4400 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 4400 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 4400 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 4410 4430 4450 4470

System Performance and Capacity

Plaintext Throughput (Mbps)	750	1,500	2,500	4,000
AES/3DES Throughput (Mbps)	200/350	500/500	1,000/1,000	1,000/1,000
Concurrent Connections	256,000	512,000	1,000,000	5,000,000
Concurrent VPN Tunnels	1,000	2,000	5,000	10,000
Ethernet Interfaces	8 x SFP (Mini-GBIC), 2 x 1000BASE-TX, 4 x 100BASE-TX			
Virtual Interfaces (VLAN)	512	1,024	2,048	4,096
Virtual Systems	10 + up to 1,000 additional Virtual Systems			
Virtual Routers	10 + up to 1,000 additional Virtual Routers			

Feature List 4400 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
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 4400 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
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)	88 x 440 x 440
Weight	12 kg
Form Factor	2U
Rack Mountable 19"	Yes
Redundant Hot-Swapable Power Supply (AC)	100-240V 50 to 60 Hz AC
Redundant Hot-Swapable 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

Warranty

All products in the Clavister Security Gateway 4400 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.

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.

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