

Clavister Virtual NGFW Appliances 2018



CLAVISTER[®]
CONNECT. PROTECT

Clavister Virtual Appliances

All Clavister virtual appliances are powered by Clavister cOS Core, our own in-house proprietary network operating system. Clavister cOS Core is development exclusively in Sweden by Swedish engineers for the global market. It's not a mash-up of different open-source components and it's 100% backdoor-free. Vulnerabilities, such as "heartbleed", "Shellshock/bash", "Ghost" or "FREAK", as well as yet to be discovered open-source bugs, not allowed to enter.

A unified network operating system on all Clavister virtual appliances ensures that there are no functional differences between platforms. Also, there are no user limitations, additional bundles for the use of certain functions or similar restrictions. Clavister virtual appliances enables you to start small and grow as your needs increases.

Clavister Services

Clavister customers are offered two types of services: the comprehensive, all-inclusive Clavister Security Subscription (CSS), or the cost-effective Clavister Product Subscription (CPS), which can be upgraded to the CSS at any time. The Clavister Product Subscription (CPS) includes both software services, such as upgrades and maintenance and direct 24/7 vendor support (online, by phone), as well as the central management system Clavister InControl.

Alternatively, the Clavister Security Subscription (CSS) includes all the services included in Clavister Product Subscription with the addition of the full Next-Generation Firewall and Unified Threat Management (UTM) capabilities, with services such as Anti-Virus, Web Content Filtering, Intrusion Detection and Prevention (IDP) and True Application Control.

All other functions are already included in the license and don't have to be bought separately.*

Centralized Management with Clavister InControl

Although all Clavister virtual appliances can be managed individually through the included web interface, both Clavister Subscriptions offers a license for using the central management system – the Clavister InControl.

In addition to the audit-proof and role-based management of all Clavister next-generation firewall products in a single interface, the system also provides centralized logging and reporting options without additional costs.

The generated reports can be fully customizable and include graphic representation of the information.



Highlights

True Application Control

True Application Control provides an effective way to identify and manage how applications are used in the network regardless of port and protocol used. Thanks to sophisticated protocol plug-ins and the unique engines inside Clavister Application Control (AC) and Clavister Deep Application Content Control (DACC) our products recognizes more than 4,700 signatures including more than 2,300 applications and 2,400 meta data tags.

User Identity Awareness

The User Identity Awareness functionality provides an extremely powerful and versatile tool for highly granular visibility and control of “who-does-what-and-when” in their networks. You’ll have the ability to pinpoint user access to applications across both wired and wireless networks, regardless of connecting device.

Traffic Management

Clavister cOS delivers a large set of tools to enable you to fine-tune your traffic to suit your network. Among the many key features included are pipe-based, synchronous and asynchronous traffic management; bandwidth limiting and traffic prioritizing; dynamic bandwidth balancing; traffic guarantees and IPsec integration. It’s also possible to use multiple Internet connections, which can be used at the same time and the traffic gets divided among them.

VPN

Clavister cOS supports a multitude of IPsec and SSL scenarios, depending on which type you’re deploying. Clavister cOS Core includes support for a number of clients, such as PPTP and L2TP. This gives you the right tool to set up LAN-to-LAN connectivity or client connectivity depending on your needs.

IP reputation

One of the most powerful tools in a robust cyberdefense is a carrier grade IP reputation service, one that stays minute-to-minute alert of the next malicious IP address that threatens your network security. There are four billion IP addresses with most 12 million of them being a known repository of malicious malware and viruses.

Performance* and Capacity	Clavister V2	Clavister V3	Clavister V5	Clavister V7	Clavister V9	Clavister V10
Firewall Performance (plaintext throughput)	300 Mbps	1 Gbps	2 Gbps	3 Gbps	6 Gbps	10 Gbps
IPsec VPN Performance (large packets)	150 Mbps	500 Mbps	1 Gbps	2 Gbps	3 Gbps	5 Gbps
Maximum Concurrent Connections	16,000	64,000	128,000	250,000	512,000	2,000,000
Maximum Concurrent IPsec VPN Tunnels	25	500	1,000	1,500	3,000	5,000
Maximum Concurrent L2TP/PPTP/SSL VPN Tunnels	25	500	1,000	1,500	3,000	5,000
Maximum Number of Users	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted	Unrestricted
Maximum Number of Routing Tables (Virtual Routers)	5	25	50	100	200	1,000

Connectivity	Clavister V2	Clavister V3	Clavister V5	Clavister V7	Clavister V9	Clavister V10
Ethernet Interfaces	Up to 3	Up to 4	Up to 6	Up to 8	Up to 10	Up to 10
Interfaces for Management / High Availability (HA)	n/a	n/a	n/a	n/a	n/a	n/a
Configurable Internal / External / DMZ Ports	n/a	n/a	n/a	n/a	n/a	n/a
RS-232 Console Ports	n/a	n/a	n/a	n/a	n/a	n/a
Link Aggregation IEEE 802.1AX-2008 (Static/LACP)	Yes	Yes	Yes	Yes	Yes	Yes
Maximum Number of VLAN Interfaces IEEE 802.1Q	8	32	256	512	1,024	2,048
Support for High Availability (HA)**	No	Yes	Yes	Yes	Yes	Yes
Service-VLAN Interfaces IEEE 802.1ad (Q-in-Q)	Yes	Yes	Yes	Yes	Yes	Yes

Product Specific Specification	Clavister V2	Clavister V3	Clavister V5	Clavister V7	Clavister V9	Clavister V10
Form Factor	Software					
Supported Virtual Platforms	VMware ESXi, KVM					

* Actual performance may vary depending on network conditions, number of activated services and host hardware capabilities.

** When using High Availability clusters in virtual environments, the hardware settings for each interface must be identical on both cluster nodes (bus, slot and port).

Clavister Features (Summary)

Content Level Security

Application Control	√	Web Content Filtering	√
Intrusion Detection and Prevention (IDP/IPS)	√	Anti-Spam	√
Anti-Virus	√	File Integrity	√
IP-Reputation	√	Geo IP	√

Network Level Security

Firewalling	√	High Availability Support* (HA)	√
User Identity Awareness (UIA)	√	Multiple WAN Connections	√
User Authentication	√	Server Load Balancing	√
Single-Sign-On-Support	√	WAN Load Balancing	√
User-based Rules	√	Traffic Management	√
Scheduled Rules	√	VLAN Support	√
IPsec VPN	√	Advanced Routing (Policy-Based, OSPF)	√
SSL VPN	√	Transparent and Routing Modes	√
DoS and DDoS Protection	√	DHCP Services	√

Network Infrastructure

Management

Centralized Management	√	24/7 Support	√
Web Management	√	Unlimited Trouble-Tickets	√
Command-Line Interface (CLI)	√	Hardware Replacement	√
Advanced Logging and Reporting	√	Software Subscriptions	√
Syslog- and Splunk-support	√	Online License Center	√

Support and Maintenance

* Optional service on Clavister E20.
Specifications are subject to change without notice.

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For a complete overview of the features included in the Clavister solutions please visit www.clavister.com or contact your local Clavister Representative directly.

About Clavister

Clavister (NASDAQ: CLAV) is a leading security provider for fixed, mobile and virtual network environments. Its award-winning solutions give enterprises, cloud service providers and telecoms operators the highest levels of protection against threats, with unmatched reliability. Clavister's performance in the security sector was recognized with the Product Quality Leadership Award from Frost & Sullivan. The company was founded in Sweden in 1997, with its solutions available globally through its network of channel partners. To learn more, visit www.clavister.com.

Your Clavister Partner



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