

## Next-Generation Firewalls

Clavister NetWall provides an extensive portfolio of Next-Generation Firewalls (NGFW) in desktop, enterprise and virtualized platforms. They include a full UTM (Unified Threat management) feature set delivered regardless of platform—including Application Visibility & Control with Deep Packet Inspection, Botnet protection with IP Reputation and more. Hardware platforms come with a choice of throughput performance desired and are license upgradable to be fully future proof. Clavister NetWall is certified by common criteria at EAL 4+ level making it the ideal platform for everything from distributed offices to critical infrastructures.



## Ideal for building a Secure SD-WAN

Combining Clavister NetWalls and management tools provides the flexibility to build a Secure SD-WAN infrastructure. All versions of NetWall can be connected providing the flexibility of deployment in heavy branches, thin branches, home offices and cloud datacenters. Clavister VPN technology secures reliable connectivity over various access technologies—over large geographic distances. Read more at [www.clavister.com/secure-sd-wan](http://www.clavister.com/secure-sd-wan).

## Empowered by Clavister Eco-System

Clavister works with many of the world’s leading technology companies to improve manageability, strengthen security and ensure faster and more successful deployments. Integrated into the Clavister Next Generation Firewall is an ecosystem with the best of breed components empowering key use-cases named in this paper. Read more at [www.clavister.com/eco-system](http://www.clavister.com/eco-system).



## Clavister NetWall Virtual Appliances

For deployment in a cloud infrastructure or in universal customer premises equipment (uCPE) Clavister NetWall Virtual provides several licensing options depending on the deployment needs. There is no additional restriction throughput performance other than specified below.




Clavister Netwall Virtual Appliances	Netwall V2	Netwall V3	Netwall V5	Netwall V7	Netwall V9	Netwall 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 VPN Tunnels	25	500	1,000	1,500	3,000	5,000
Maximum Number of Routing Tables (Virtual Routers)	5	25	50	100	200	1,000
Ethernet Interfaces	Up to 3	Up to 4	Up to 6	Up to 8	Up to 10	Up to 10
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
Form Factor	Software					
Supported Virtual Platforms	VMware ESXi, KVM, Hyper-V					



\* 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 NetWall Hardware Appliances





	Netwall E10		Netwall E20		Netwall E80	
						
Performance and Capacity	E10	E20	E20 Pro	E80	E80 Pro	
Firewall Performance (plaintext throughput)	1 Gbps	1 Gbps	2 Gbps	2 Gbps	4 Gbps	
Maximum Concurrent Connections	16,000	8,000	16,000	250,000	500,000	
IPsec VPN Performance (large packets)	100 Mbps	50 Mbps	100 Mbps	0,5 Gbps	1 Gbps	
Maximum Concurrent IPsec VPN Tunnels	10	10	25	100	200	
Ethernet Interfaces	4 x 1GbE (RJ45)		4 x 1GbE (RJ45) switch block + 2 x 1GbE (RJ45)		6 x 1GbE (RJ45)	
Expansion Slot	No		No		No	

	Netwall W20		Netwall W30	
				
Performance and Capacity	W20	W20 Pro	W30	W30 Pro
Firewall Performance (plaintext throughput)	4 Gbps	6 Gbps	6 Gbps	10 Gbps
Maximum Concurrent Connections	500,000	750,000	750,000	1,000,000
IPsec VPN Performance (large packets)	1 Gbps	1,5 Gbps	1,5 Gbps	2 Gbps
Maximum Concurrent IPsec VPN Tunnels	500	1,000	1,000	2,000
Ethernet Interfaces	6 x 1GbE (RJ45)		6 x 1GbE (RJ45)	
Expansion Slot	No		One (1) slot, supports: 8 x 1GbE (RJ45), 8 x 1GbE (SFP), 2 x 10GbE (SFP+) or 4 x 10GbE (SFP+)	

	Netwall W40		Netwall W50	
				
Performance and Capacity	W40	W40 Pro	W50	W50 Pro
Firewall Performance (plaintext throughput)	10 Gbps	20 Gbps	25 Gbps	55 Gbps
Maximum Concurrent Connections	1,000,000	2,500,000	5,000,000	8,000,000
IPsec VPN Performance (large packets)	2 Gbps	4 Gbps	5 Gbps	8 Gbps
Maximum Concurrent IPsec VPN Tunnels	2,000	4,000	5,000	10,000
Ethernet Interfaces	9 x 1GbE (RJ45)		1 x 1GbE (RJ45)	
Expansion Slot	Two (2) slots, supports: 8 x 1GbE (RJ45), 8 x 1GbE (SFP), 2 x 10GbE (SFP+) or 4 x 10GbE (SFP+)		Four (4) slots, supports: 8 x 1GbE (RJ45), 8 x 1GbE (SFP), 2 x 10GbE (SFP+) or 4 x 10GbE (SFP+)	

Performance based on latest Clavister cOS Core release. Specifications are subject to change without notice.

## Clavister NetWall Hardware Modules & Transceivers




















Modules	NET80	NET81	NET120	NET141	
					
Ethernet Interfaces	8 x 1GbE (RJ45)	8 x 1GbE (SFP)	2 x 10GbE (SFP+)	4 x 10GbE (SFP+)	
SFP/SFP+ Transceivers	SFP-1G-TX	SFP-10G-SR	SFP-1G-LX10	SFP-1G-LX40	SFP-1G-LX80
	1000BASE-T, RJ45	10GBASE-SR/SW, 300m, 850nm, multi-mode	1000BASE-LX, 10 km, 1310nm, single-mode	1000BASE-LX, 40 km, 1550nm, single-mode	1000BASE-LX, 80 km, 1550nm, single-mode

## Unique Secure Operating System - Clavister cOS Core

All Clavister NetWall appliances are delivered with the operating system cOS Core developed by Clavister. Thanks to this in-house development of the software in Sweden, including very selective use of third party components, Clavister Firewalls are 100% backdoor-free. Read more at [www.clavister.com/nobackdoors](http://www.clavister.com/nobackdoors).

## Clavister NetWall Subscriptions

Depending on customer requirements, all Clavister appliances are supplied with one of two possible subscriptions, either the **Clavister Product Subscription (CPS)** or the **Clavister Security Subscription (CSS)**. The Clavister Product Subscription includes software upgrades, direct 24/7 manufacturer support (online or by phone) as well as the central management software Clavister InControl. The Clavister Security Subscription adds to this security feeds enabling Unified Thread Management use-cases. Also included is the Clavister InCenter Cloud fully hosted including the unique CyberSecurity ScoreCard adding simplified actionable security analytics. Read more about use-cases at [www.clavister.com/use-cases](http://www.clavister.com/use-cases)

	CPS	CSS	Eco-system feeds
<b>Use-Cases</b>			
<b>Connect</b>			
 <b>Reliable Secure VPN</b> Connecting branch offices and remote locations securely and cost effectively.	X	X	
 <b>Routing &amp; Load Balancing</b> Avoid downtime and secure business continuity with redundancy	X	X	
 <b>Secure Network Zones</b> Network segmentation to protect company's digital assets	X	X	
 <b>Server Load Balancing</b> Simplifying scaling and allowing preventive maintenance	X	X	
 <b>Secure Remote Access</b> Empowering remote workers and devices with flexible secure access	X	X	
<b>Protect</b>			
 <b>Firewalling</b> Network Firewalling securing IT resources and users	X	X	
 <b>Network Attack Protection</b> Intrusion Detection and Prevention System, GeoIP restrictions and Denial of Service protection		X	 
 <b>Antivirus Scanning</b> Streaming scanning of attachments in mail, web and file downloads for malicious content		X	
<b>Prevent</b>			
 <b>Active Traffic Optimization</b> Traffic prioritization securing preferred use of resources	X	X	
 <b>Captive Portal Authentication</b> Integration with Active Directory and 2FA procedures for open network access	X	X	
 <b>Botnet Blocking</b> Block outgoing and incoming traffic of known botnet sources through IP Reputation intelligence		X	
 <b>Web Content Filtering</b> Restrict access to inappropriate content and high-risk sites		X	
 <b>Application Visibility &amp; Control</b> Control applications and user behavior to optimize network resource usage		X	
<b>Services &amp; included products</b>			
Hardware replacement	X	X	
24/7 Support (online & by phone)	X	X	
Software upgrades (new features & maintenance releases)	X	X	
Centralized management with Clavister InControl	X	X	
Clavister OneConnect SSL VPN Client for Windows and macOS	X	X	
Security analytics with Clavister InCenter Cloud		X	
Optional Clavister InCenter on-premises installation		X	
CyberSecurity ScoreCard for simplified actionable analytics		X	
Signature updates from eco system partners for all the protect and prevent use-cases		X	



## Central Management and Control

All Clavister appliances can be administered individually via a web interface, but a license to use the central management Clavister InControl is included. The solution offer zero-touch deployment, simplified ways to provision and manage a Secure SD-WAN deployment and firmware upgrade management capacities.

Learn more at [www.clavister.com/incontrol](http://www.clavister.com/incontrol)



## Real-Time Cloud Analytics

Clavister InCenter enables IT administrators to gain insight into their networks. Clavister InCenter provides all the user stories including forensics with log search, dashboarding, alerting and reporting as well as health monitoring. A hosted version of Clavister InCenter Cloud is included with each Security Subscription, and alternatively InCenter is available for on-premises deployment as well.

Learn more at [www.clavister.com/incenter](http://www.clavister.com/incenter)



## Simplified Actionable Security Analytics

Helping IT Managers and their executives to communicate about the status of their security infrastructure and ensures that funds and efforts are spent where they matter the most – this tool is included in Clavister InCenter available to all Clavister NetWall with a Security Subscription.

Learn more at [www.clavister.com/cybersecurity-scorecard](http://www.clavister.com/cybersecurity-scorecard)



## Simple Secure Remote Working

Clavister OneConnect is our SSL VPN windows and macOS client that offers a simple and easy to use solution for remote access and is included in Clavister's NetWall.

Learn more at [www.clavister.com/oneconnect](http://www.clavister.com/oneconnect)



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