EagleSeries



Feature-rich next-generation firewall in a slim form factor

FEATURES AT-A-GLANCE

- Cost-effective next-generation firewall for any organization, housed in a convenient desktop form-factor
- Next-generation firewall services, including Clavister True Application Control, Clavister Content Security Services and User Identity Awareness
- Powerful stateful firewall with deep-packet inspection gives you a high level of security
- Flexible, dynamic routing and connectivity with support for link aggregation
- Built-in support for both IPsec and SSL VPN offers easy to use remote connectivity
- Security management is always included: centralized security management, Webbased management and command-line interface (CLI) are all included with Clavister Subscriptions
- High-end network infrastructure, such as traffic management, High Availability (HA), server load balancing and WAN load balancing, are all included with Clavister Subscriptions
- The perfect solution for small office, branch offices and customer premise equipment (CPE) solutions

The Clavister E7 is a set of beautifully designed next-generation security appliances, built to deliver comprehensive and powerful enterprise-grade firewall services for small branch offices, remote locations and to use as customer premise equipment (CPE). The Clavister E7 is perfectly suited for solutions where multiple firewalls are deployed, often over geographically dispersed areas, and where there is a strong need for a centralized managed, scalable network security solution.

Next-Generation Firewall Services

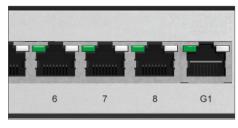
True Application Control

Do not be fooled by the small package, this is a real next-generation firewall, providing powerful throughput even when using the advanced security features. It proves that you can get next-generation firewall functionality without having to buy the biggest box on the market. Clavister E7 fully supports True Application Control – one of our next-generation firewall security services.

Enabling True Application Control will help you to manage applications used in your network more safely. With added security you lower your overall risk exposure and as a result, costly security incidents and downtime can be avoided. It also gives you valuable insight in which applications are used by which user, and can therefore prioritize business critical application and increase your overall business productivity.

True Application Control not only recognize more application and data, it understands how these application behave and can act immediately on malicious behavior.

With its unique support for Deep Application Content Control (DACC) technology, our application control can perform in-depth analysis and control of application content with higher degree of control. DACC enables you



Connectivity Choices

The Clavister E7 is equipped with a flexible switch block with eight 1GbE (RJ45) interfaces, plus three 1GbE (RJ45) interfaces. This means that you have a wide range of connectivity options when setting up your Clavister E7.

Clavister E7 also support link aggregation, which means that you have the added benefit of maximizing throughput and increase the resilience of your system.

Thanks to the flexible routing available in Clavister E7, you can assign any port to act as your High Available port for a fully supported High Availability solution.



Desktop or Rack Mounted – Your Choice Since it is designed to be placed anywhere, even in your office environment, we made it look stunning so it can fit right in with your other equipment. We also give you the option to purchase our rack mount kit should you decide you rather mount the Clavister E7 in a rack. Your product, your choice.



Advanced Routing

The Clavister E7 provide an advanced routing engine, including Policy-Based Routing, with seamless route failover. This allow for Dynamic Policy-Based Routing where traffic can be routed based on dynamic events, such as User Identity, latency, HTTP Get responses, etc.

This enable you to create truly flexible and sophisticated policies that reflect the true requirements of your network. to understand and visualize Skype IDs, SQL queries, Facebook chat text, VoIP call information and much more.

Clavister SSL Inspection for Application Control provides a high performance and non-intrusive way to identify and control even SSL encrypted applications.

True Application Control is included in the Clavister Security Subscription (CSS) service.

Content Security Services

Having a regular firewall is not enough to prevent attacks from happening on your network. As attacks become more severe and the threat landscape becomes more dynamic, additional measures need to be in place to protect your network. Clavister offers best-of-breed content security services, including Intrusion Detection and Prevention System, networkcentric Anti-Virus from Kaspersky Labs, and Web Content Filtering to add an additional security layer to your firewall. These content security services protect your network from advanced threats your firewall alone cannot stop. The Content Security Services are included in the Clavister Security Subscription (CSS) service.

User Identity Awareness

User Identity Awareness (UIA) provides granular visibility of user identity, and enables you to control network access at the user level. The User Identity Awareness together with our True Application Control functionality will provide you with an extremely powerful and versatile tool for granular visibility and control of "who-does-what-and-when" in your networks. You will have the ability to pinpoint user access to applications across both wired and wireless networks regardless of connecting device.

True Security Values

Clavister Subscriptions

We believe our customers should have choices. We also believe you should have it all. Therefore we offer you a choice between our comprehensive Clavister Product Subscription (CPS), or our all-inclusive, full service option, Clavister Security Subscription (CSS).

Clavister Product Subscription

The Clavister Product Subscription contains a high number of product services, such as software updates, centralized management support and flexible service plans.

CPS includes a hardware replacement service to offer you the best possible protection in case a hardware failure should occur. Finally to ensure you get the best out of your Clavister security gateway, we provide you with around-the-clock support from our award-winning technical support team – your dedicated resource with highly skilled engineers that help you out in case of need. The Clavister Product Subscription keeps your Clavister updated, online and ready for business twenty-four-seven.

Clavister Security Subscription

Clavister Security Subscription is a complete, all inclusive suite of product services. It contains all the services you get with Clavister Product Subscription, but extends the service offering by including a full set of nextgeneration firewall services, such as Clavister True Application Control, Web Content Filtering, Anti-Virus and Intrusion Detection and Prevention (IDP). CSS offers best-in-class content services, which protect you from the more advanced types of malware and exploits. It grants you access to the latest software and signature updates keeping your infrastructure up to date and increasingly more stable and secure.

All Clavister Subscriptions are available in 12, 24, 36, 48 and 60 months service terms, offering you maximum security and flexibility.

For more information about Clavister Subscriptions, see the separate Clavister Subscriptions brochure.

True Flexibility - Get more performance when you need it

Clavister E7 is available in three models, each addressing specific customer requirements. Should your performance needs increase, Clavister offers you the flexibility to upgrade to a more powerful Clavister E7 without having to invest in new hard-ware. Just simply order the upgrade to your preferred Clavister E7 model and install the new license file. It is as simple as that.

This makes Clavister E7 a low risk choice in dynamic business environments where requirements can change overnight. Clavister provides you the performance when you need it, avoiding high up front investment costs to your security infrastructure or having to worry about costly upgrades.

Uptime Technologies

Clavister E7 comes with powerful features to ensure that your network infrastructure is online and ready for work. Features like High Availability (HA) is fully supported, as well as Fast Route Failover technologies and link aggregation, which ensures that your business is not affected by network downtime caused by link failure or hardware problem. It also support flood protection technologies to increase uptime in case your network is subjected to a Denial-of-Service (DoS) attack.

Powerful Firewall

The Clavister E7 is a next-generation firewall, but it also has all the traditional security features, such as stateful firewall with deep-packet inspection, and it is powered by our own in-house developed network security operating system, the Clavister cOS Core. As well as providing all traditional firewall functions, such as port blocking and proxy server, all Clavister firewall solutions incorporate next-generation firewall features to detect and block sophisticated application-level attacks. This means higher level of security, higher traffic throughput and minimal use of system resources.

Performance

Clavister E7 provides next-generation security services across all points of your network without sacrificing performance throughput. Purpose-built hardware running on our highly efficient network security operating system ensures that the firewall performance throughput is one of the highest in the industry, making sure that your Clavister firewall will not be a bottleneck in your network infrastructure.

Simplicity

We strive to make things easy to understand and easy to use. This includes everything from hardware design to security management. We build highly customizable enterprise-grade firewalls, and despite the inherent complexity, we make an effort of making it easy to use. For example, our highly acclaimed centralized security management system, Clavister InControl uses color-coded attribute groups to provide a clear overview over dependencies that the firewall rules have to each other, making human errors less likely to occur. By combining policies and services into one, firewall policy management can be simplified and more easy to use. This results in fewer policy rules, making it easier to manage and less likely to cause a security breach.

All-Inclusive Security Management

For any network, security management is one of the more important aspects. It has to be intuitive, efficient and easy to use for large enterprises, with multiple firewalls at multiple sites, and even in geographical disperse areas, keeping your security management consistent and cohesive, and up to date is a non-trivial task. All these security management systems are included with our Clavister cOS Core products – free of charge.

Clavister InControl - Centralized Security Management

Clavister InControl offers a comprehensive centralized management solution that will assist and help administrators perform their daily tasks faster, easier and in a more streamlined way. Its intuitive user interface and support for task-driven workflow management guides administrators through complex and repetitive tasks, thereby alleviating the burden of managing large installations. With support for triple-AAA (Authentication, Authorization and Audit) the integrity and configurations managed by the Clavister InControl system is kept under strict control. This level of control makes it easy to use delegated management, allowing specific teams and personnel to access only designated parts of the system.

Clavister InControl can be extended to collaborate with a vast number of other management system with the use of the Clavister InControl Software Development Kit (SDK). The Clavister InControl SDK enables organizations to integrate and extend existing system management tools with Clavister InControl management. For example, optimized provisioning systems or integrated help desk functionality.

Splunk for Clavister

Splunk for Clavister is a comprehensive Web-based reporting system that offers enterprise-level reporting with tight integration with all Clavister cOS Core-based products. Splunk supports real-time data analysis, with Key Performance Indicators (KPI), graphs, tables and long-term trending, scaling from a single Clavister security gateway to large data centers.

Splunk for Clavister enables you to visualize your Clavister security solution, including pinpointing problem areas, thwarted attacks and other security issues, and then turn them into business-level reports. You can also take advantage of the built-in scheduling and distribution features to make sure the right people get the right reports on time.

Other Management Options

In addition to our centralized management solution, we also provide the Clavister Web Management system, an easy-touse Web-based security management solution that works for smaller installations with just a few firewalls. Each product also supports our comprehensive command-line interface (CLI), enabling you to script common tasks.

Next-Generation Firewall Security

By integrating world-class Next-Generation Firewall functionality, such as our Clavister True Application Control, Intrusion Detection and Prevention (IDP), Anti-Virus, Anti-Spam and Web Content Filtering with a stateful firewall with deep packet inspection, IPsec and SSL VPN connectivity, we are able to protect your organization against everything from network layer attacks to application layer threats, and even viruses and worms. While you have full control of who does what, when and with what.

Clavister cOS Core

Clavister cOS Core is our in-house developed, high-performance security network operating system. Every line of code is carefully crafted to ensure that it delivers maximum performance at all times. We take pride in delivering a product that we have full control over, rather than a mashup of open-source components.

Flexibility and Adaptability

Not all networks are created equally. Vast differences in network topology and configuration require a network security gateway to be able to accommodate all these differences. Our security gateways gives you the freedom to set routing policies with extreme granularity. A large number of parameters can be used to construct policies and rules to meet even the most demanding network installation.







Big on Performance - Low on Maintenance

All Clavister security gateways share a common trait: they all support Clavister Service Provisioning Network (CSPN). This secure, high-speed network ensures that all Clavister Security Subscription services are kept updated and current from newly emerging threats. This gives system administrators the freedom to concentrate on running their network without having to worry about having the latest security patches installed.

License Scalability

One important aspect of our products is scalability. Our licensing model offers you the ability to start with your performance needs today and upgrade your product incrementally as your organization grows. You also have the choice of two subscriptions models: the Clavister Security Subscription, our all-inclusive subscription, or the regular Clavister Product Subscription.

Low Total Cost of Ownership

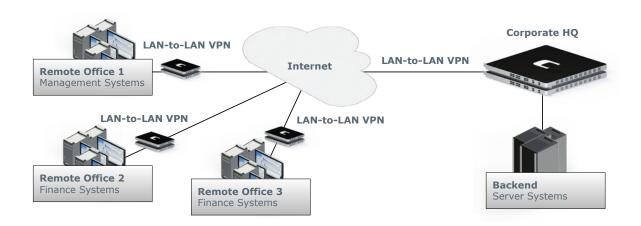
Our goal is to provide a complete security solution that is more cost efficient than our competitors. Clavister security gateways, with their unique set of integrated security features, world-class service and support, and their powerful administration system, enables you to spend less time managing your security environment and keep your network defenses up to date, and thereby lower your network security infrastructure TCO significantly.

Flexible Product – Versatile Solutions

Thanks to its flexibility, Clavister E7 can be used in a number of different scenarios, ranging from a single Clavister E7 to support a small office, to thousands of Clavister E7 appliances located around the world, all connected to a headquarter firewall.

Remote Office Solution

The clustered pair of Clavister E7 Pro's is a perfect solution for managing small remote offices. With its included support for High Availability (HA) and traffic management, the Clavister E7 can easily take care of the incoming traffic.



Small Office Solution

The Clavister E7 is the perfect choice for a small office. With normal traffic patterns it will easily service 10 to 15 people and if you expand you can easily upgrade to the Clavister E7 Pro. Without having to change your hardware. For optimal redundancy you can cluster two Clavister E7 to ensure you have maximum network uptime levels.

Customer Premise Equipment Solution

When a Managed Security Service Provider (MSSP) wants to install a large number of managed end-points, the Clavister E7 is the premium choice. With its sleek design and small desktop footprint, it will fit nicely into the most sophisticated environment. This enables service providers to set up and operate a premium managed security service based on enterprise-class security devices in the most cost effective way. Delivering premium security services with a premium next-generation firewall product.

Where to Buy Clavister

For more information about where to buy Clavister products, visit <u>www.clavister.com/partners</u>. Additional resources and customer testimonials can be found at <u>www.clavister.com/resources</u>.

Performance and Capacity	Clavister E7	Clavister E7 Pro
Firewall Performance (plaintext throughput)	250 Mbps	400 Mbps
IPsec VPN Performance (large packets)	50 Mbps	100 Mbps
Maximum Concurrent Connections	20,000	50,000
Maximum Concurrent IPsec VPN Tunnels	100	250
Maximum Concurrent L2TP/PPTP/SSL VPN Tunnels	100	250
Maximum Number of Users	Unrestricted	Unrestricted
Maximum Number of Routing Tables (Virtual Routers)	5	10
Connectivity	Clavister E7	Clavister E7 Pro
Ethernet Interfaces	8 x 1GbE (RJ45) switch block + 3 x 1GbE (RJ45)	
Interfaces for Management / High Availability (HA)	Configurable	
Configurable Internal / External / DMZ Ports	Yes	Yes
Local Console Port	Virtual Console ¹ - Micro USB	
Link Aggregation IEEE 802.1AX-2008 (Static/LACP)	Yes	Yes
Link Aggregation IEEE 802.1AX-2008 (Static/LACP) Maximum Number of VLAN Interfaces IEEE 802.1Q		Yes 128
	Yes	

¹ The Virtual Console Port requires a system driver to be installed on the workstation to get access to the device local console.

Form Factor	Desktop
Dimensions (height x width x depth)	40 mm x 280 mm x 200 mm (1.57 in x 11.02 in x 7.87 in)
Rack Mountable	Yes, via optional rack mount kit
Hardware Weight / Package Weight	1,735 kg (3.83 lb) / 2,8 kg (6.17 lb)
Power Specifications	
Power Supply (AC)	90-264VAC, 50-60 Hz
Average Power Consumption	13 W / 45 BTU
Redundant Power Supply	No
Acoustic Noise Level	OdB (Fanless)
PSU Rated Power (W)	36 to 40 W
Appliance Input	12 VDC
Environmental	
Cooling	Passive cooling, no moving parts
Humidity	5% to 95% noncondensing
Operational Temperature	0° to 35° C (32° to 95° F)
Vibration / Shock	0.41 Grms2 (3-500 Hz) / 30 G

Product Features

Firewall	
Stateful Firewall / Deep Packet Inspection	Yes / Yes
IP Policies	ALLOW, DROP and REJECT
Multiple IP Rule Sets	Yes
User- and Group-Based Policies	Yes
Scheduled Policies	Yes
DoS and DDoS Detection and Prevention	Yes
Threshold Rules (Connection Count and Rate Limits)	Yes
IP Blacklisting / Whitelisting	Yes / Yes
TCP Sequence Number Tracking	Yes
Ingress Filtering / IP Spoofing Protection	
Access Rules	Yes
Strict Reverse Path Forwarding (RPF)	Yes
Feasible RPF by using Interface Equivalence	Yes
Address and Port Translation	
Policy-Based	Yes
Dynamic NAT (Source)	Yes
Symmetric NAT	Yes
NAT Pools	Yes
Static Source Translation	Yes
Static Destination Translation (Virtual IP/Port Forward)	Yes
NAT Hairpinning	Yes
Server Load Balancing (SLB)	
SLB Distribution Methods	Round-Robin, Connection-Rate
SLB Monitoring Methods	ICMP Echo, Custom TCP Port, HTTP Request/Response
SLB Server Stickiness	State, IP Address, Network
Mode of Operations	
Transparent Mode (Layer 2)	Yes

Alantang Mode (Layer 3)	All Clavister Eagle Series products incluides a two (2) years standard RMA warranty.
Vixed Transparent and Routing Mode	Yes
Routing	
Static Routing	Yes
Policy-Based Routing (PBR)	Yes
Scheduled Policy-Based Routing	Yes
/irtual Routing	Yes
Aultiple Routing Tables	Yes
Loopback Interfaces	Yes
Route Load Balancing (Equal-Cost Multipath)	Yes
Route Failover	Yes
Route Monitoring Methods	ARP, ICMP Echo, Custom TCP Port, HTTP Request/Response
Source-Based Routing	Yes
Dynamic Routing	105
Policy-Based Dynamic Routes	Yes
OSPFv2 Routing Process (RFC2328)	Yes, multiple
OSPFv2 RFC1583 Compatibility Mode	Yes
OSPFv2 over VPN	Yes
	162
Aulticast	Yes
Multicast Forwarding	
IGMPv2 Compatibility Mode (RFC2236)	Yes
IGMPv3 (RFC3376)	Yes
IGMP Proxy Mode	Yes
IGMP Snoop Mode	Yes
Transparent Mode (L2 Bridge Mode)	
Policy-Based	Yes
MPLS Passthrough	
Spanning Tree BPDU Relaying	Normal (STP), Rapid (RSTP), Multiple (MSTP), Per VLAN Spanning Tree Plus (PVST+)
P Address Assignment	
Per Interface Address Assignment	Yes
Static	Yes
DHCP Client	Ethernet, VLAN
PPPoE Client	Ethernet, VLAN
PPTP/L2TP Client	Yes
Network Services	
DHCP Server	Yes, multiple
DHCP Server Custom Options	
	Yes
DHCP Relay	
	Yes, multiple
P Pool	Yes, multiple Yes
P Pool	Yes, multiple Yes Yes
P Pool Proxy ARP Dynamic DNS Services	Yes, multiple Yes Yes DynDNS.org, Dyns.cx, CJB.net, Peanut Hull
P Pool Proxy ARP Dynamic DNS Services Custom HTTP Poster	Yes, multiple Yes Yes
P Pool Proxy ARP Dynamic DNS Services Custom HTTP Poster Bandwidth Management	Yes, multiple Yes Yes DynDNS.org, Dyns.cx, CJB.net, Peanut Hull Yes
P Pool Proxy ARP Oynamic DNS Services Custom HTTP Poster Bandwidth Management Policy-Based Bandwidth Management	Yes, multiple Yes Yes DynDNS.org, Dyns.cx, CJB.net, Peanut Hull Yes Yes
P Pool Proxy ARP Dynamic DNS Services Custom HTTP Poster Bandwidth Management Policy-Based Bandwidth Management Scheduled Policies	Yes, multiple Yes Yes DynDNS.org, Dyns.cx, CJB.net, Peanut Hull Yes Yes Yes
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P Pool Proxy ARP Dynamic DNS Services Custom HTTP Poster Bandwidth Management Colicy-Based Bandwidth Management Bandwidth Guarantees/Limits/Prioritization	Yes, multiple Yes Yes DynDNS.org, Dyns.cx, CJB.net, Peanut Hull Yes Yes Yes
P Pool Proxy ARP Oynamic DNS Services Custom HTTP Poster Bandwidth Management Policy-Based Bandwidth Management Scheduled Policies Bandwidth Guarantees/Limits/Prioritization DSCP- / ToS-Based	Yes, multiple Yes Yes DynDNS.org, Dyns.cx, CJB.net, Peanut Hull Yes Yes Yes Yes
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P Pool Proxy ARP Pony armic DNS Services Custom HTTP Poster Bandwidth Management Policy-Based Bandwidth Management Scheduled Policies Bandwidth Guarantees/Limits/Prioritization DSCP- / ToS-Based Bandwidth Management per Group Dynamic Bandwidth Balancing between Groups Packet Rate Limits DSCP Forwarding DSCP Copy to Outer Header Policy ToSL Based Applications Recognizable Applications Recognizable Applications Recognizable Applications Policy-Based Policy-Based Policy Matching on Application Content (Metadata) Policy Actions Intrusion Detection and Prevention	Yes, multiple Yes DynDNS.org, Dyns.cx, CJB.net, Peanut Hull Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes

Stateful Pattern Matching	Yes
Protocol and Rate Anomaly Detection	Yes
Insertion and Evasion Protection	Yes
Dynamic IP Blacklisting	Yes
Automatic Signature Updates	Yes
Content Security	
Policy-Based	Yes
Protocol Validation	HTTP, HTTPS, FTP, SMTP, POP3, TFTP, SIP, H.323, PPTP, TLS/SSL
Web Content Filtering	
HTTP / HTTPS	Yes / Yes
Audit / Blocking Mode	Yes / Yes
Classification Categories	32
URL Whitelisting / Blacklisting	Yes / Yes
Customizable Restriction Pages	Yes
Cloud-Based URL Classification Source	Yes
SafeSearch Enforcement	Google, Yahoo, Bing
Anti-Virue	

HTTP, HTTPS, FTP, SMTP, POP3

Yes

Anti-Virus Supported Protocols

Stream-Based Scanning	Yes
File Type Whitelisting	Yes
Scanning of Files in Archives (ZIP/GZIP)	Yes
Automatic Updates	Yes
Anti-Spam	
SMTP DNS Blacklisting	Yes
SNTP E-mail Rate Limiting	Yes
File Integrity	
Supported Protocols	HTTP, HTTPS, FTP, SMTP, POP3
File Type Whitelisting / Blacklisting	Yes / Yes
File Extension and MIME Type Verification	Yes
Application Layer Gateway	
Application Layer Gateway HTTP / HTTPS (Content Security)	Yes
	Yes Yes
HTTP / HTTPS (Content Security)	
HTTP / HTTPS (Content Security) FTP (Content Security, NAT / SAT)	Yes
HTTP / HTTPS (Content Security) FTP (Content Security, NAT / SAT) TFTP (NAT / SAT)	Yes Yes
HTTP / HTTPS (Content Security) FTP (Content Security, NAT / SAT) TFTP (NAT / SAT) SIP (NAT / SAT)	Yes Yes Yes
HTTP / HTTPS (Content Security) FTP (Content Security, NAT / SAT) TFTP (NAT / SAT) SIP (NAT / SAT) H.323 / H.323 Gatekeeper (NAT / SAT)	Yes Yes Yes Yes
HTTP / HTTPS (Content Security) FTP (Content Security, NAT / SAT) TFTP (NAT / SAT) SIP (NAT / SAT) H.323 / H.323 Gatekeeper (NAT / SAT) SMTP (Content Security)	Yes Yes Yes Yes Yes

IPsec VPN

PPTP (Passthrough, NAT / SAT)

IKEv1
Main Mode, Aggressive Mode
Quick Mode
Tunnel, Transport
AES, 3DES, DES, Blowfish, Twofish, Cast-128
AES, 3DES, DES, Blowfish, Twofish, Cast-128, NULL
128, 192, 256
SHA-1, SHA-256, SHA-512, MD-5
1, 2, 5, 14, 15, 16, 17, 18
Yes
Yes
Yes
Yes
PKCS#1, PKCS#3, PKCS#7, PKCS#10
Yes
Yes, VeriSign, Entrust etc.
LDAP, HTTP
IP, FQDN, E-mail, X.500 Distinguished-Name
Net, Host, Port
Yes

IPsec Dial-on-Demand	Yes	
IPsec Tunnel Selection Through	Firewall Rule Set, Routing, Policy-Based Routing	
Redundant VPN Tunnels	Yes	
IPsec Passthrough	Yes	
	ies	
SSL VPN		
TLS/SSL VPN	Yes	
One-Time Client Installation	Yes	
Browser Independent	Yes	
VPN Policy Selection Through	Firewall Rule Set, Routing and Policy-Based Routing	
Split Tunneling	Yes	
SSL VPN IP Provisioning	IP Pool, Static	
L2TP VPN		
L2TPv2 Client (LAC)	Yes	
L2TPv2 Server (LNS)	Yes	
L2TPv3 Client (LAC)	Yes	
L2TPv3 Server (LNS)	Yes	
L2TP over IPsec	Yes	
L2TP Tunnel Selection Through	Firewall Rule Set, Routing, Policy-Based Routing	
L2TP Client Dial-on-Demand	Yes	
L2TPv2 Server IP Provisioning	IP Pool, Static	
Other Tunnels		
PPPoE Client (RFC2516)	Yes	
Unnumbered PPPoE	Yes	
PPPoE Client Dial-on-Demand	Yes	
PPTP Client (PAC)	Yes	
PPTP Client Dial-on-Demand	Yes	
PPTP Server (PNS)	Yes	
PPTP Server IP Provisioning	IP Pool, Static	
MPPE Encryption (PPTP/L2TP)	RC4-40, RC4-56, RC4-128	
Generic Router Encapsulation (RFC2784, RFC2890)	Yes	
Generic Router Encapsulation (RFC2784, RFC2890) 6in4 Tunneling (RFC4213)	Yes Yes	
6in4 Tunneling (RFC4213)	Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through	Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication	Yes Firewall Rule Set, Routing, Policy-Based Routing	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers	_
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers Yes, multiple servers	_
6in4 Tunneling (RFC4213)Tunnel Selection ThroughUser AuthenticationLocal User DatabaseRADIUS AuthenticationRADIUS AccountingLDAP Authentication Protocols	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Authentication	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Authentication Configurable HTTP/HTTPS Front-End	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes Yes Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Front-End L2TP/PPTP/SSL VPN Authentication	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes Yes Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Authentication Configurable HTTP/HTTPS Front-End L2TP/PPTP/SSL VPN Authentication Single Sign-On	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes Yes Yes Yes Yes Yes Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Authentication Configurable HTTP/HTTPS Front-End L2TP/PPTP/SSL VPN Authentication Single Sign-On Device-Based Authentication (MAC Address)	Yes Firewall Rule Set, Routing, Policy-Based Routing Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Front-End L2TP/PPTP/SSL VPN Authentication Single Sign-On Device-Based Authentication (MAC Address) ARP Authentication	Yes Firewall Rule Set, Routing, Policy-Based Routing Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers Yes, multiple servers Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	
6in4 Tunneling (RFC4213)Tunnel Selection ThroughUser AuthenticationLocal User DatabaseRADIUS AuthenticationRADIUS AccountingLDAP Authentication ProtocolsXAUTH IKE/IPsec AuthenticationWeb-Based HTTP/HTTPS AuthenticationConfigurable HTTP/HTTPS Front-EndL2TP/PPTP/SSL VPN AuthenticationSingle Sign-OnDevice-Based Authentication (MAC Address)ARP AuthenticationRADIUS RelayActive Directory IntegrationClient-less Deployment	Yes Firewall Rule Set, Routing, Policy-Based Routing Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes	
6in4 Tunneling (RFC4213)Tunnel Selection ThroughUser AuthenticationLocal User DatabaseRADIUS AuthenticationRADIUS AccountingLDAP Authentication ProtocolsXAUTH IKE/IPsec AuthenticationWeb-Based HTTP/HTTPS AuthenticationConfigurable HTTP/HTTPS Front-EndL2TP/PPTP/SSL VPN AuthenticationSingle Sign-OnDevice-Based Authentication (MAC Address)ARP AuthenticationRADIUS RelayActive Directory Integration	Yes Firewall Rule Set, Routing, Policy-Based Routing Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple Servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes	
6in4 Tunneling (RFC4213)Tunnel Selection ThroughUser AuthenticationLocal User DatabaseRADIUS AuthenticationRADIUS AccountingLDAP Authentication ProtocolsXAUTH IKE/IPsec AuthenticationWeb-Based HTTP/HTTPS AuthenticationConfigurable HTTP/HTTPS Front-EndL2TP/PPTP/SSL VPN AuthenticationSingle Sign-OnDevice-Based Authentication (MAC Address)ARP AuthenticationRADIUS RelayActive Directory IntegrationClient-less Deployment	Yes Firewall Rule Set, Routing, Policy-Based Routing Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes	
6in4 Tunneling (RFC4213)Tunnel Selection ThroughUser AuthenticationLocal User DatabaseRADIUS AuthenticationRADIUS AuthenticationRADIUS AccountingLDAP Authentication ProtocolsXAUTH IKE/IPsec AuthenticationWeb-Based HTTP/HTTPS AuthenticationConfigurable HTTP/HTTPS Front-EndL2TP/PPTP/SSL VPN AuthenticationSingle Sign-OnDevice-Based Authentication (MAC Address)ARP AuthenticationRADIUS RelayActive Directory IntegrationClient-less DeploymentClient Support	Yes Firewall Rule Set, Routing, Policy-Based Routing Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Authentication Configurable HTTP/HTTPS Front-End L2TP/PPTP/SSL VPN Authentication Single Sign-On Device-Based Authentication (MAC Address) ARP Authentication RADIUS Relay Active Directory Integration Client-less Deployment Client Support	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Authentication Configurable HTTP/HTTPS Front-End L2TP/PPTP/SSL VPN Authentication Single Sign-On Device-Based Authentication (MAC Address) ARP Authentication RADIUS Relay Active Directory Integration Client-less Deployment Client Support	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Authentication Configurable HTTP/HTTPS Front-End L2TP/PPTP/SSL VPN Authentication Bevice-Based Authentication (MAC Address) ARP Authentication RADIUS Relay Active Directory Integration Client Support Security Management Clavister InControl for Centralized Management Web User Interface (WebUI)	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Authentication Configurable HTTP/HTTPS Front-End L2TP/PPTP/SSL VPN Authentication Single Sign-On Device-Based Authentication (MAC Address) ARP Authentication RADIUS Relay Active Directory Integration Client-Less Deployment Client Support	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Authentication Configurable HTTP/HTTPS Front-End L2TP/PPTP/SSL VPN Authentication Based Authentication (MAC Address) ARP Authentication RADIUS Relay Active Directory Integration Client-less Deployment Client Support Security Management Web User Interface (WebUI) SSH / SCP Management Command Line Interface (CLI)	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes Yes Yes Yes Yes Xicrosoft Windows Server 2003, 2008 R2, 2012 Yes IOS, Android, Windows, OSX, Linux Yes HTTP and HTTPS Yes Yes Yes Yes	
6in4 Tunneling (RFC4213) Tunnel Selection Through User Authentication Local User Database RADIUS Authentication RADIUS Accounting LDAP Authentication Protocols XAUTH IKE/IPsec Authentication Web-Based HTTP/HTTPS Authentication Configurable HTTP/HTTPS Front-End L2TP/PPTP/SSL VPN Authentication Based Authentication (MAC Address) ARP Authentication RADIUS Relay Active Directory Integration Client-less Deployment Client Support Security Management Web User Interface (WebUI) SSH / SCP Management Command Line Interface (CLI) Remote Fail-Safe Configuration	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes Yes <td></td>	
6in4 Tunneling (RFC4213)Tunnel Selection ThroughUser AuthenticationLocal User DatabaseRADIUS AuthenticationRADIUS AccountingLDAP Authentication ProtocolsXAUTH IKE/IPsec AuthenticationWeb-Based HTTP/HTTPS AuthenticationConfigurable HTTP/HTTPS Front-EndL2TP/PPTP/SSL VPN AuthenticationSingle Sign-OnDevice-Based Authentication (MAC Address)ARP AuthenticationRADIUS RelayActive Directory IntegrationClient SupportSecurity ManagementClavister InControl for Centralized ManagementWeb User Interface (VebUI)SSH / SCP ManagementCommand Line Interface (CLI)Remote Fail-Safe ConfigurationLocal Console (RS-232)	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes Yes <td></td>	
6in4 Tunneling (RFC4213)Tunnel Selection ThroughUser AuthenticationLocal User DatabaseRADIUS AuthenticationRADIUS AuthenticationRADIUS AccountingLDAP Authentication ProtocolsXAUTH IKE/IPsec AuthenticationWeb-Based HTTP/HTTPS AuthenticationConfigurable HTTP/HTTPS Front-EndL2TP/PPTP/SSL VPN AuthenticationSingle Sign-OnDevice-Based Authentication (MAC Address)ARP AuthenticationRADIUS RelayActive Directory IntegrationCleint-less DeploymentCleint SupportSecurity ManagementWeb User Interface (WebUI)SSH / SCP ManagementCommand Line Interface (CLI)Remote Fail-Safe ConfigurationLocal Console (RS-232)Traffic Simulation (CLI)	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes Yes <td></td>	
6in4 Tunneling (RFC4213)Tunnel Selection ThroughUser AuthenticationLocal User DatabaseRADIUS AuthenticationRADIUS AccountingLDAP Authentication ProtocolsXAUTH IKE/IPsec AuthenticationWeb-Based HTTP/HTTPS AuthenticationConfigurable HTTP/HTTPS Front-EndL2TP/PPTP/SSL VPN AuthenticationSingle Sign-OnDevice-Based Authentication (MAC Address)ARP AuthenticationRADIUS RelayActive Directory IntegrationClient-less DeploymentClient SupportSecurity ManagementWeb User Interface (WebUI)SSH / SCP ManagementLocal Console (RS-232)Trafic Simulation (CLI)Scipting (CLL)	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes Yes <td></td>	
6in4 Tunneling (RFC4213)Tunnel Selection ThroughUser AuthenticationLocal User DatabaseRADIUS AuthenticationRADIUS AuthenticationRADIUS AccountingLDAP Authentication ProtocolsXAUTH IKE/IPsec AuthenticationRADIUS Authentication ProtocolsXAUTH IKE/IPsec AuthenticationConfigurable HTTP/HTTPS AuthenticationConfigurable HTTP/HTTPS Front-EndL2TP/PPTP/SSL VPN AuthenticationMeb-Based Authentication (MAC Address)ARP AuthenticationRADIUS RelayActive Directory IntegrationClient-less DeploymentClient SupportSecurity ManagementWeb User Interface (WebUI)SSH / SCP ManagementVeb User Interface (CLI)Remote Fail-Safe ConfigurationLocal Console (RS-232)Trafic Simulation (CLI)Scripting (CLI)Packet Capture (PCAP)	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes Yes <td></td>	
6in4 Tunneling (RFC4213)ITunnel Selection ThroughIUser AuthenticationILocal User DatabaseIRADIUS AuthenticationIRADIUS AccountingILDAP Authentication ProtocolsIXAUTH IKE/IPsec AuthenticationIWeb-Based HTTP/HTTPS AuthenticationIConfigurable HTTP/HTTPS Front-EndIL2TP/PPTP/SSL VPN AuthenticationISingle Sign-OnIDevice-Based Authentication (MAC Address)IARP AuthenticationIRADIUS RelayIActive Directory IntegrationIClient-less DeploymentIClient SupportIStart Y ManagementIWeb User Interface (WebUI)ISSH / SCP ManagementILocal Console (RS-232)ITraffic Simulation (CLI)IScripting (CLI)IPacket Capture (PCAP)ISystem UpgradeI	Yes Firewall Rule Set, Routing, Policy-Based Routing Yes, multiple Yes, multiple servers Yes, multiple servers Yes, multiple servers PAP, CHAP, MS-CHAPv1, MS-CHAPv2 Yes Yes <td></td>	

Syslog	Yes, multiple servers
Clavister Log	Yes, multiple servers
Real-Time Log	WebUI, Clavister InControl
Log Settings per Policy	Yes
Log Export via WebUI	Yes
SNMPv2c Polling	Yes
SNMPv2c Traps	Yes
Real-Time Monitor Alerts (Log Action)	Yes
Real-Time Performance Monitoring	WebUI, Clavister InControl
Hardware Key Metrics Monitoring	CPU Load, CPU Temperature, Voltage, Memory, Fan, etc.

NOTE: Several third-party log monitoring plug-ins are available for Clavister firewalls. These monitoring plug-ins are either commercially available or via open source.

IPv6

IPv6		
IPv6 Ready Certification	Core Protocols, Phase-2 Router	
Neighbor Discovery	Yes	
Proxy Neighbor Discovery	Yes	
IPv6 Path MTU Discovery	Yes	
ICMPv6	Yes	
IPv6 Router Advertisement	Yes	
Interfaces	Yes	
Ethernet Interfaces	Yes	
VLAN Interfaces (802.1q)	Yes	
Link Aggregation IEEE 802.1AX-2008 (Static/LACP)	Yes	
Interface IPv6 Address Assignment	Static	
Firewall		
IP Policies	ALLOW, DROP and REJECT	
Stateful Firewall	Yes	
Ingress Filtering	Yes	
IPv6 Routing / Policy-Based Routing	Yes / Yes	
Functionality		
DHCPv6 Server	Yes	
Application Control	Yes	
High Availability		
Active Mode with Passive Backup	Yes	
Firewall Connection State Synchronization	Yes	
IKE / IPsec State Synchronization	Yes / Yes	
User and Accounting State Synchronization	Yes	
DHCP Server and Relayer State Synchronization	Yes	
Synchronization of Dynamic Routes	Yes	
IGMP State Synchronization	Yes	
Server Load Balancing (SLB) State Synchronization	Yes	
Configuration Synchronization	Yes	
Device Failure Detection	Yes	
Dead Link / Gateway / Interface Detection	Yes / Yes / Yes	
Average Failover Time	< 800 ms	
Average Lallover Time	< 000 ms	

Specifications subject to change without further notice.

CID: 9150-0040-22 (2014/09)

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 <u>www.clavister.com</u>.

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WE ARE NETWORK SECURITY Clavister AB, Sjögatan 6 J, SE-891 60 Örnsköldsvik, Sweden

■ Phone: +46 (0)660 29 92 00 ■ Fax: +46 (0)660 122 50 ■ Web: www.clavister.com

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