

**CLAVISTER**

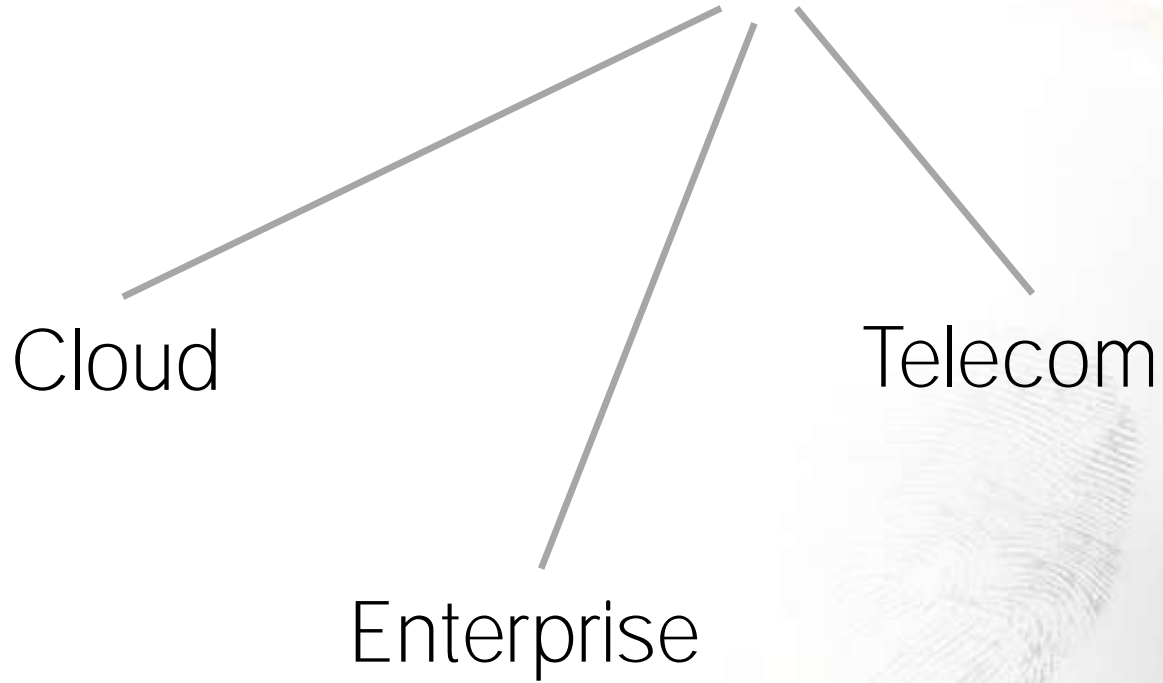
We are Network Security

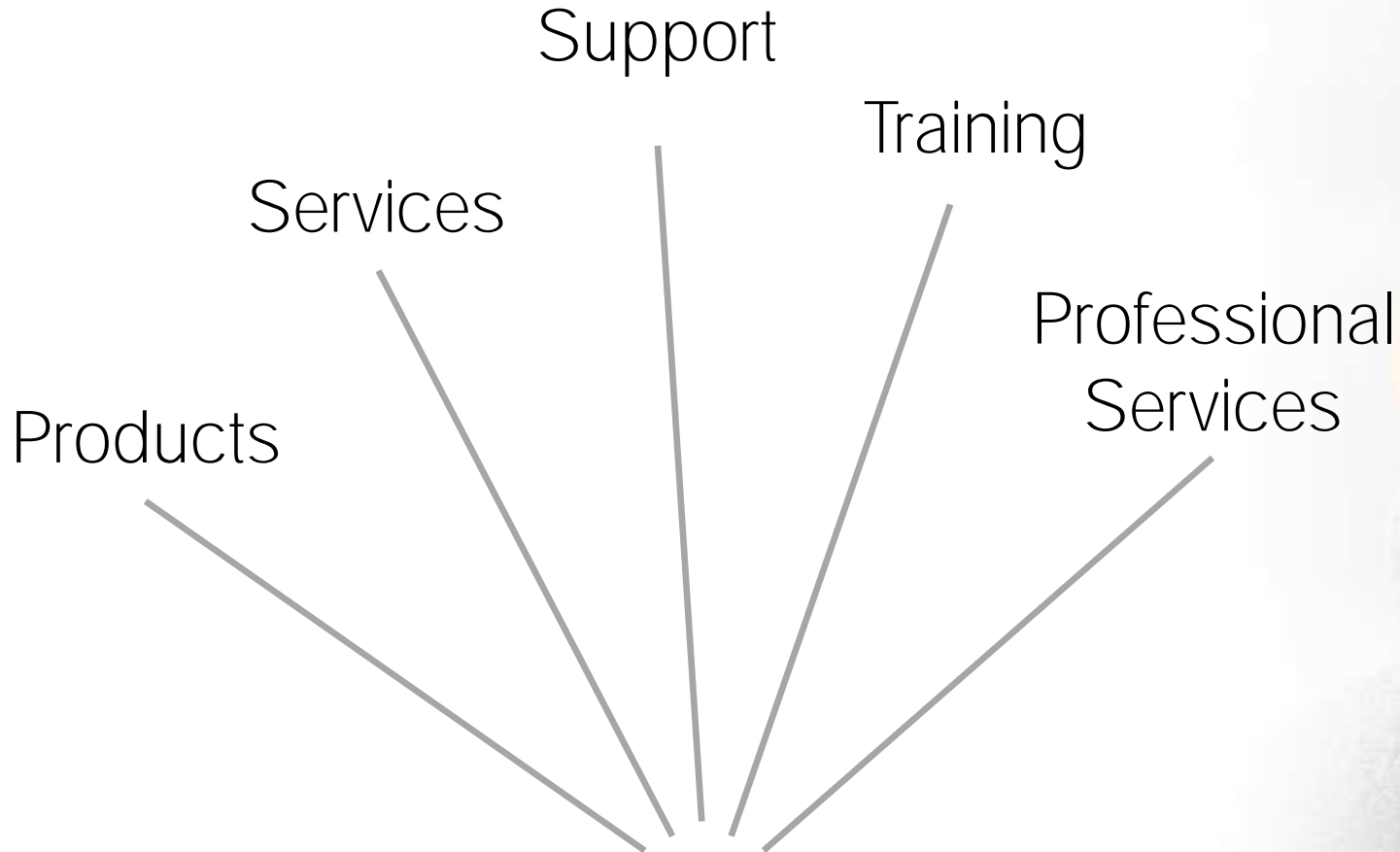
Cloud Solutions.



Clavister delivers the security solutions required for market leaders to optimize their networks... now and tomorrow.

We are securing the market leaders.





Our Network Security Platform is **solid**.



# And to help you get started. We have the solutions.

## Clavister Solution Portfolio

### Cloud

Cloud  
Provider  
Security

### Enterprise

Distributed  
Enterprise  
Security

Enterprise  
Datacenter  
Protection

### Telecom

Mobile  
Data  
Offloading

Packet  
Core  
Security

LTE/4G  
Mobile  
Security

# They are based on the same platform.

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## Clavister Network Security Platform

Products

Services

Training

Support

Professional  
Services

## Let's talk about Cloud.

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### Clavister Network Security Platform

Products

Services

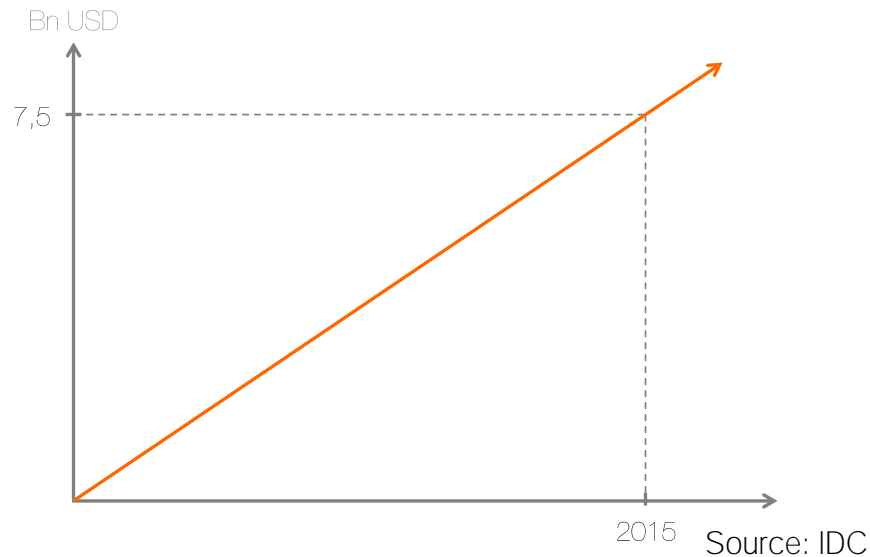
Training

Support

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Services

# The market is growing. Fast.

- ✓ Cloud services are here to stay.
- ✓ Majority of organizations have deployed some workloads in cloud environments.
- ✓ Cloud security market worth \$7,5 billion by 2015 (IDC).



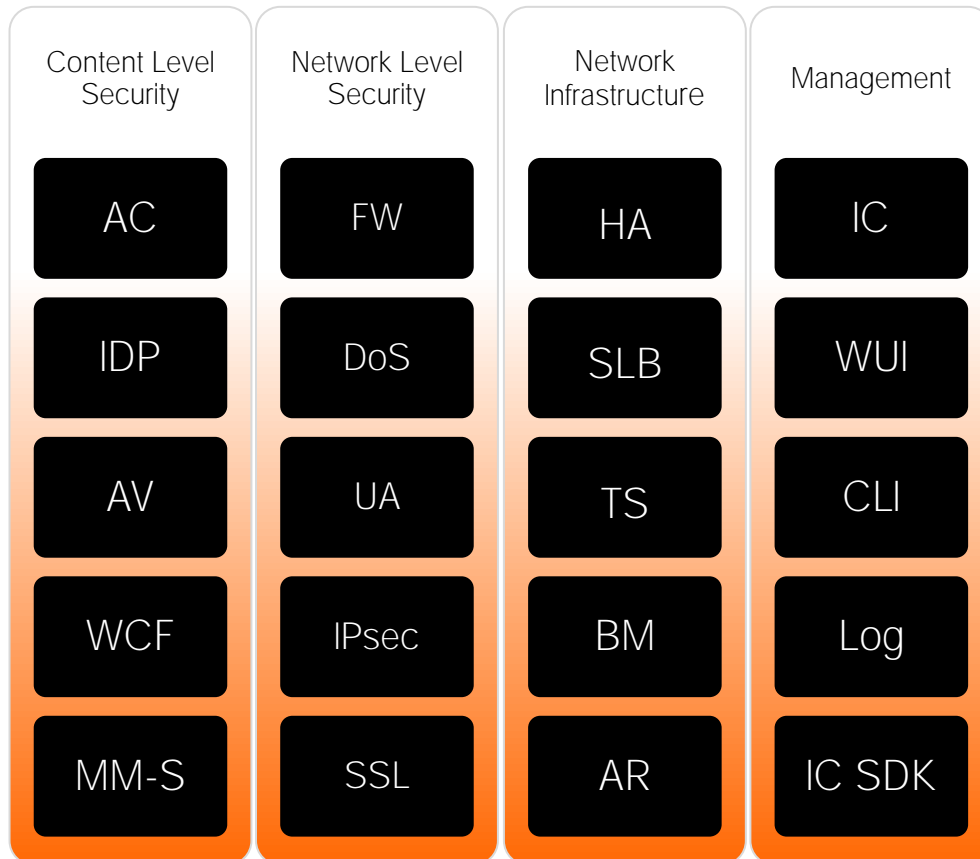


# Our solution provides everything.

- ✓ Multi-functional security software.
- ✓ Business model adopted for the cloud.
- ✓ Fully centralized management.
- ✓ Seamless provisioning.
- ✓ Smallest footprint on the market.
- ✓ A complete feature-set.



## One software - all features.



AC – Application Control, IDP – Intrusion Detection & Prevention, AV – Anti Virus, WCF – Web Content Filtering, MM-S – MultiMedia Security, FW – Firewalling, DoS – Denial of Service, UA – User Authentication, IPsec – IPsec VPN, SSL – SSL VPN, HA – High Availability, SLB – Server Load Balancing, TS – Traffic Shaping, BM – Bandwidth Management, AR – Advanced Routing, IC – InControl, WUI – Web User Interface, CLI – Command Line Interface, Log – Advanced Logging, IC SDK – InControl SDK,

1. Multi-functional security software
2. Cloud business model
3. Centralized management
4. Seamless provisioning
5. Smallest footprint
6. Cross-platform

# Business model that adapts.

- ✓ Pay-per-Use / Pay-per-Feature or a traditional perpetual software license model.
- ✓ Online licensing and contract management for easy management of your cloud licenses.
- ✓ Standardized Web Services interfaces for automated license generation and decommissioning.

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[Home](#)

## Clavister Store

[Store Transactions](#) [Shopping Cart](#)

### Clavister Cloud License Configuration

The product you have selected can be customized with additional services or accessories. Please go through the configurable items below to customize the product of your choice.



#### Features

Clavister presents a very informative sales text here. Prices are shown per feature and *month*.

<input checked="" type="checkbox"/> <b>Firewalling</b>	30,90 EUR
<input checked="" type="checkbox"/> <b>Application Control</b>	25,00 EUR
<input checked="" type="checkbox"/> <b>Server Load Balancing</b>	29,90 EUR
<input checked="" type="checkbox"/> <b>Traffic Shaping</b>	43,25 EUR
<input checked="" type="checkbox"/> <b>IPSec VPN</b> <input type="text" value="100 tunnels"/>	49,90 EUR
<input checked="" type="checkbox"/> <b>SSL VPN</b>	20,00 EUR
<input checked="" type="checkbox"/> <b>Web Content Filtering</b>	40,50 EUR
<input checked="" type="checkbox"/> <b>Anti-Virus</b>	40,00 EUR
<input checked="" type="checkbox"/> <b>Anti-Spam</b>	40,50 EUR
<input checked="" type="checkbox"/> <b>Intrusion Detection/Prevention</b>	35,00 EUR

#### [Shopping Cart](#)

Your cart is empty [View Cart](#)

#### [Current Configuration](#)

##### Clavister Cloud License


[Show details](#)

**354,95 EUR**

[Add to Cart](#)

# Fully centralized management.

- ✓ Manage your entire cloud security infrastructure centrally from Clavister InControl.
- ✓ Save resources by reducing manual tasks.
- ✓ All routine tasks managed from a single console.
- ✓ Versatile forensics tools.

- 
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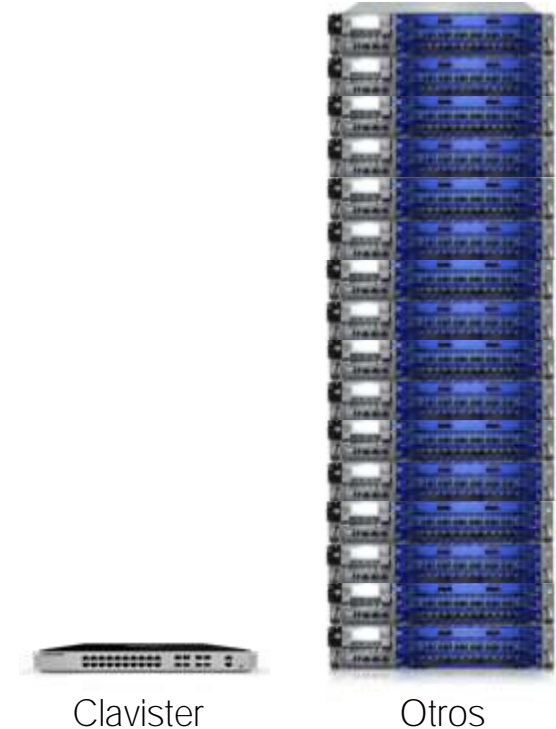
# Seamless provisioning & deployment.

- ✓ Manual tasks are the most cost-driving activities in large-scale cloud computing environments.
- ✓ Seamless provisioning and deployment - remove most manual operations.
- ✓ Develop tailor-made solutions that conform to the way your organization works.

1. Multi-functional security software
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# Smallest footprint on the market.

- ✓ Scalability is key for a profitable business model.
- ✓ Our footprint is smaller than 4 MB, requires only 32 MB of storage and 32 MB of RAM.
- ✓ CheckPoint VPN1-VE requires 12 GB of storage and 512 MB of RAM, even without all features enabled.
- ✓ Clavister is more than 16x more cost-efficient than a CheckPoint solution.



1. Multi-functional security software
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# Cross-platform model.

- ✓ Combination of physical and virtual security devices – Clavister provides both.
- ✓ The entire feature-set is available both in physical and virtual security devices.
- ✓ All managed from Clavister InControl.
- ✓ Minimum license administration.



1. Multi-functional security software
2. Cloud business model
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# Summary.

Feature	Benefits
Multi-functional Security Software	<ul style="list-style-type: none"><li>• Get all key features from a single software.</li><li>• Reduce amount of suppliers and thereby support costs.</li></ul>
Cloud Business Model	<ul style="list-style-type: none"><li>• No heavy upfront CAPEX investments.</li><li>• Align OPEX with your existing revenue and expense flows.</li></ul>
Fully Centralized Management	<ul style="list-style-type: none"><li>• Stay in full control of your network.</li><li>• Remove obstacles before they happen.</li><li>• Ensure costly misuse or system bottlenecks are avoided.</li></ul>
Seamless Provisioning & Deployment	<ul style="list-style-type: none"><li>• Reduce costs by removing manual interaction.</li><li>• Minimize room for human introduced system errors.</li></ul>
Smallest Footprint on the Market	<ul style="list-style-type: none"><li>• Leverage existing infrastructure investments.</li><li>• Heavily reduces amount of hardware needed compared to competitors' solutions.</li></ul>
Cross-platform Model	<ul style="list-style-type: none"><li>• Only one supplier for both virtual &amp; physical network security.</li><li>• Single software - minimized support costs.</li></ul>

# Enterprises – Virtual Firewall.

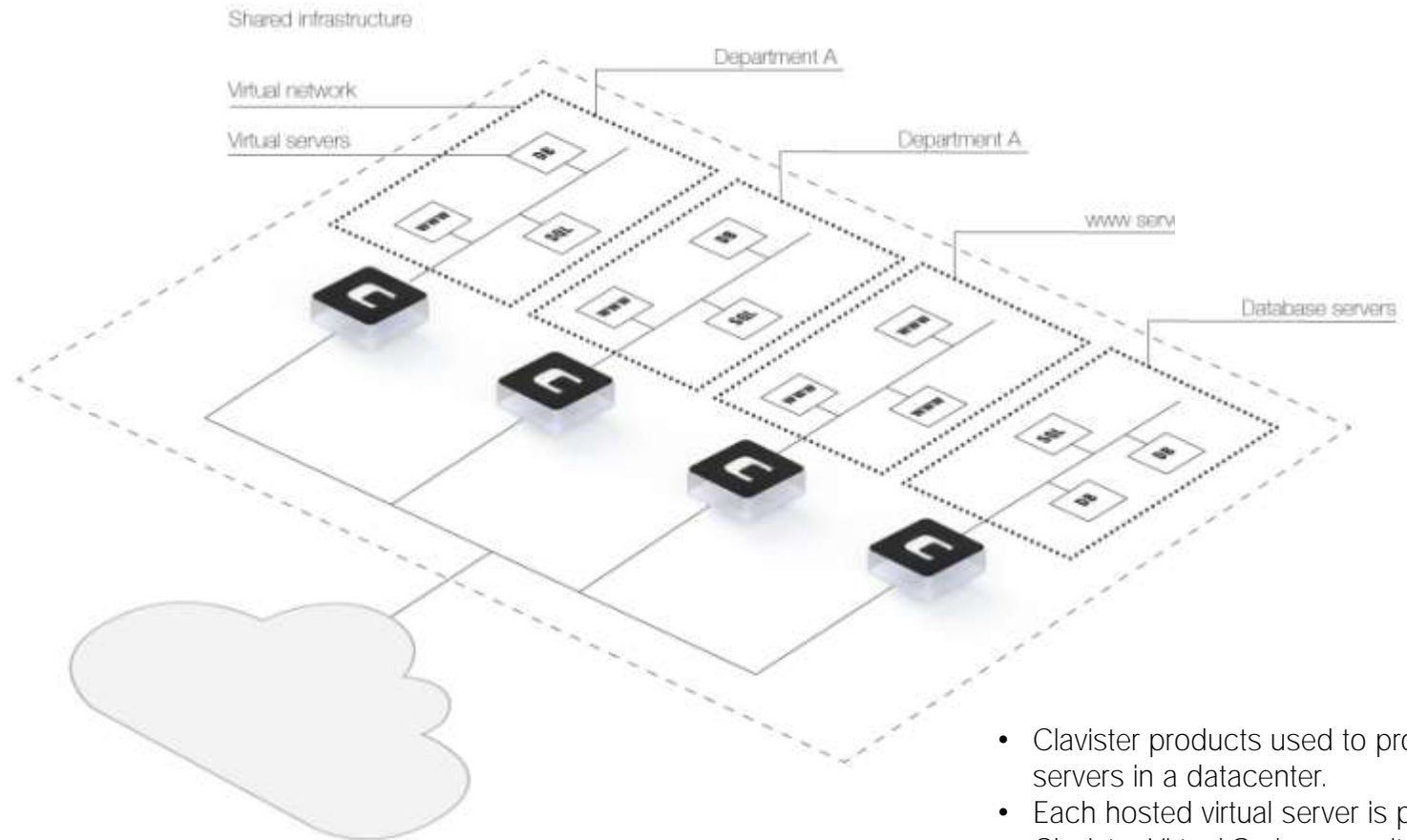
*Protecting your private cloud from the inside.*

# Challenges.

- ✓ Security in the cloud major concern for customers.
- ✓ Virtual servers more or less open for attacks within the same cloud environment.
- ✓ Regulatory compliance issues.
- ✓ Privacy and data leakage.



# Enterprises – Virtual Firewall



- Clavister products used to protect hosted servers in a datacenter.
- Each hosted virtual server is protected by a Clavister Virtual Series security gateway.
- Clavister Virtual Series are configured through WebUI.

# Solution highlights.

- ✓ Maximize the utilization of virtual datacenter.
- ✓ Ensure privacy and avoid data leakage.
- ✓ Simplified administration - avoiding complex shared firewall.
- ✓ Simplified cost calculations for internal IT.
- ✓ Ensure law and regulatory compliance.



# Key benefits.

- ✓ Mature and proven technology.
- ✓ Complete enterprise feature set.
- ✓ Flexible licensing based on performance.
- ✓ Same security software in both hardware and virtual.
- ✓ Centralized management.



**CLAVISTER**

We are Network Security

Our new portfolio.



# Cloud Provider Security Product Portfolio.



## **CLAVISTER** Virtual Series

- ✓ Clavister V3
- ✓ Clavister V5
- ✓ Clavister V7
- ✓ Clavister V9

## **CLAVISTER** Wolf Series

- ✓ Clavister W3
- ✓ Clavister W5
- ✓ Clavister W7
- ✓ Clavister W8

## **CLAVISTER** PolarBear Series

- ✓ Clavister P8
- ✓ Clavister P8 Blade
- ✓ Clavister P9
- ✓ Clavister P9 Blade



Virtual and Cloud  
environment products.



# Clavister Virtual Series.

- ✓ Four products scaling from 1-10 Gbps.
- ✓ Protecting servers in e.g. Cloud environments.
- ✓ Minimized investments. Maximized features.



	Clavister V3	Clavister V5	Clavister V7	Clavister V9	Content Level Security	Network Level Security	Network Infrastructure	Management	Support & Maintenance
Firewall Performance (Gbps)	1	3	5	10	AC	FW	HA	IC	24/7
VPN Performance (Gbps)	1	2	3	5	IDP	DoS	SLB	WUI	UTT
Concurrent Connections	64 000	128 000	256 000	1 000 000	AV	UA	TS	CLI	HWR
Concurrent VPN Tunnels (SSL/IPsec)	500	1 000	1 500	2 000	WCF	IPsec	BM	Log	SWS
Ethernet Interfaces	Up to 3	Up to 5	Up to 7	Up to 10	MM-S	SSL	AR	IC SDK	OLC
VLAN / Routers	32 / 10	256 / 20	512 / 30	1 024 / 50					
Supported Virtual Platform	Wmware ESXi								
Clavister cOS	Clavister cOS Core 10								

Products for enterprises  
and data centers.



# Clavister W3

- ✓ Powerful, feature-rich firewall.
- ✓ Excellent value for money.
- ✓ Delivers next-generation firewall.



	Clavister W3	Clavister W3 Pro
Firewall Performance (Gbps)	3	6
VPN Performance (Mbps)	200	400
Concurrent Sessions	500 000	1 000 000
Concurrent VPN Tunnels (SSL/IPsec)	500	1 000
Ethernet Interfaces	8 x GbE (RJ45)	
Virtual Interfaces (VLAN) / Routers	256 / 10	512 / 25
Users	Unlimited	Unlimited
Clavister cOS	Clavister cOS Core 10	

Content Level Security	Network Level Security	Network Infrastructure	Management	Support & Maintenance
AC	FW	HA	IC	24/7
IDP	DoS	SLB	WUI	UTT
AV	UA	TS	CLI	HWR
WCF	IPsec	BM	Log	SWS
MM-S	SSL	AR	IC SDK	OLC

# Clavister W5

- ✓ Application Control at full speed.
- ✓ Easy to use, deploy and manage.
- ✓ Up to 16 Gbps of next-gen firewall.



	Clavister W5	Clavister W5 Pro
Firewall Performance (Gbps)	8	16
VPN Performance (Gbps)	1	2,5
Concurrent Connections	2 500 000	5 000 000
Concurrent VPN Tunnels (SSL/IPsec)	2 500	5 000
Ethernet Interfaces	2 x 10 GbE (SFP+), 2 x GbE (SFP), 6 x GbE (RJ45)	
Virtual Interfaces (VLAN) / Routers	512 / 100	1 024 / 250
Users	Unlimited	Unlimited
Clavister cOS	Clavister cOS Core 10	

Content Level Security	Network Level Security	Network Infrastructure	Management	Support & Maintenance
AC	FW	HA	IC	24/7
IDP	DoS	SLB	WUI	UTT
AV	UA	TS	CLI	HWR
WCF	IPsec	BM	Log	SWS
MM-S	SSL	AR	IC SDK	OLC

# Clavister W7

- ✓ For the Enterprise perimeter.
- ✓ VPN & Firewalling up to 20 Gbps.
- ✓ SW upgradable to 40 Gbps.



	Clavister W7	Clavister W7 Pro
Firewall Performance (Gbps)	10	20
VPN Performance (Gbps)	5	10
Concurrent Connections	5 000 000	10 000 000
Concurrent VPN Tunnels (IPsec)	5 000	10 000
Ethernet Interfaces	4 x 10 GbE (SFP+), 4 x GbE (SFP), 18 x GbE (RJ45)	
Virtual Interfaces (VLAN) / Routers	512 / 250	1024 / 500
Users	Unlimited	Unlimited
Clavister cOS	Clavister cOS Stream 1.2.1	

Content Level Security	Network Level Security	Network Infrastructure	Management	Support & Maintenance
AC	FW	HA	IC	24/7
IDP	DoS	SLB	WUI	UTT
AV	UA	TS	CLI	HWR
WCF	IPsec	BM	Log	SWS
MM-S	SSL	AR	IC SDK	OLC

# Clavister W8

- ✓ VPN & Firewalling up 40 Gbps.
- ✓ Built for 10 GbE networks.
- ✓ SW upgradable to 80 Gbps.



	Clavister W8	Clavister W8 Pro
Firewall Performance (Gbps)	20	40
VPN Performance (Gbps)	10	20
Concurrent Connections	5 000 000	10 000 000
Concurrent VPN Tunnels (IPsec)	5 000	10 000
Ethernet Interfaces	10 x 10 GbE (SFP+), 4 x GbE (SFP), 2 x GbE (RJ45)	
Virtual Interfaces (VLAN) / Routers	1 024 / 250	2 048 / 500
Users	Unlimited	Unlimited
Clavister cOS	Clavister cOS Stream 1.2.1	

Content Level Security	Network Level Security	Network Infrastructure	Management	Support & Maintenance
AC	FW	HA	IC	24/7
IDP	DoS	SLB	WUI	UTT
AV	UA	TS	CLI	HWR
WCF	IPsec	BM	Log	SWS
MM-S	SSL	AR	IC SDK	OLC

Telecom and carrier  
grade products.





# Clavister P8

- ✓ Built for carrier grade usages.
- ✓ World's fastest 1U system. 240 Gbps.
- ✓ Beautiful design & unmatched speed.



	Clavister P8	Clavister P8 Blade
Firewall Performance (Gbps)	80	40
VPN Performance (Gbps)	40	20
Concurrent Connections	10 000 000	5 000 000
Concurrent VPN Tunnels (SSL/IPsec)	10 000	5 000
Ethernet Interfaces	10 x 10 GbE (SFP+), 2 x GbE (RJ45)	4 x 10GbE (SFP+)
Virtual Interfaces (VLAN)	2 048 / 500	512 / 250
Users	Unlimited	Unlimited
Clavister cOS	Clavister cOS Stream 1.2.1	

Content Level Security	Network Level Security	Network Infrastructure	Management	Support & Maintenance
AC	FW	HA	IC	24/7
IDP	DoS	SLB	WUI	UTT
AV	UA	TS	CLI	HWR
WCF	IPsec	BM	Log	SWS
MM-S	SSL	AR	IC SDK	OLC

# Clavister P9 Chassis.

- ✓ ATCA chassis with 2-16 slots.
- ✓ Security system up 560 Gbps.
- ✓ True robustness, scalability and versatility.



	Clavister P9 6002	Clavister P9 6006	Clavister P9 6014	Clavister P9 6016
Firewall Performance (Gbps)	Up to 80	Up to 200	Up to 480	Up to 560
VPN Performance (Gbps)	Up to 40	Up to 100	Up to 240	Up to 280
Form Factor	2U ANSI 19"	5U ANSI 19"	13U ANSI 19"	13U ETSI 515 rack mount, opti. ANSI 23"
Compliance	PICMG 3.0, Revision 2.0 AdvancedTCA Base Specification		PICMG 3.0 and PICMG 3.1, Revision 2.0 AdvancedTCA Base Specification	
Switch Blade Slots	N/A	2	2	2
ATCA Blade Slots	2	4	12	14
Cooling Fan	2	2 (Removable)	2 front (Removable) + 2 back (Removable)	
Clavister P9 Blade support	Clavister P9 Blade			

Support & Maintenance

24/7

UTT

HWR

SWS

OLC

# Clavister P9 Blade.

- ✓ Robust and reliable ATCA standard.
- ✓ Built for LTE and Mobile Data Offloading.
- ✓ Developed with industry leader RadiSys.



Clavister P9 Blade	
Firewall Performance (Gbps)	40
VPN Performance (Gbps)	20
Concurrent Sessions	20 000 000
Concurrent VPN Tunnels	200 000
Ethernet Interfaces	4 x 10GbE (SFP+) 6 x 1GbE (SFP) 2 x 10GbE (XAUI)
Form Factor	8U x 6HP x 280mm ATCA blade PICMG 3.0, PICMG 3.1 Option 9 Revision 2.0
Clavister cOS	Clavister cOS Stream 1.2.1

Content Level Security	Network Level Security	Network Infrastructure	Management	Support & Maintenance
AC	FW	HA	IC	24/7
IDP	DoS	SLB	WUI	UTT
AV	UA	TS	CLI	HWR
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MM-S	SSL	AR	IC SDK	OLC

**CLAVISTER®**

We are Network Security