

CLƏVISTER

CONNECT . PROTECT

Cloud Security in Telecom Networks John Vestberg, President and CEO

Clavister is...

...a provider of network security products to tier-1 clients across the globe

180 employees SEK 1b in revenues to date +18 000 active contracts Customers in +150 countries 20 years of development

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CONNECT . PROTECT

 Founded in 1997 as an IT consultant in Örnsköldsvik Sweden
 Developed security products since 1998
 Started telecommunications initiative in 2007 to meet security needs for next generation of networks
 Listed on NASDAQ First North 2014
 Acquisition of PhenixID 2016

 CLAV SS
 CLAV SS
 SWEDEN

CLƏVISTCI

Verticals



Education & Public Sector



Retail & Distributed offices



Critical Infrastructure



Industrial IoT & Transportation



Communication Service Providers

Channel



MSSP

System Integrator

OEM



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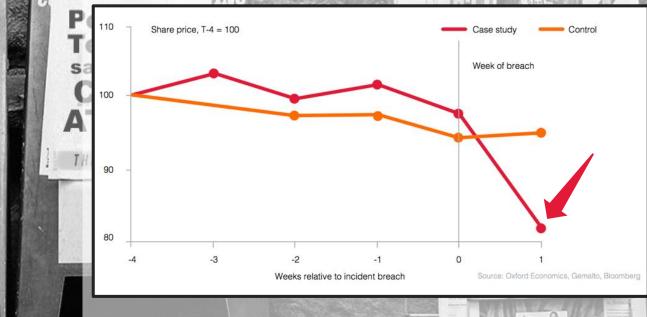
Cybercrime's negative impact...

CYBERSPACE

WannaCry a wake-up even for

data giants such as Telefónica

...on the brand value and share price can be devastating



NEWS T-Mobile arverted significantly stronger DDOS attacks last year



CLOVISTER – Leading virtualized security





Our mission is to secure business continuity and protect brand integrity.

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MEC

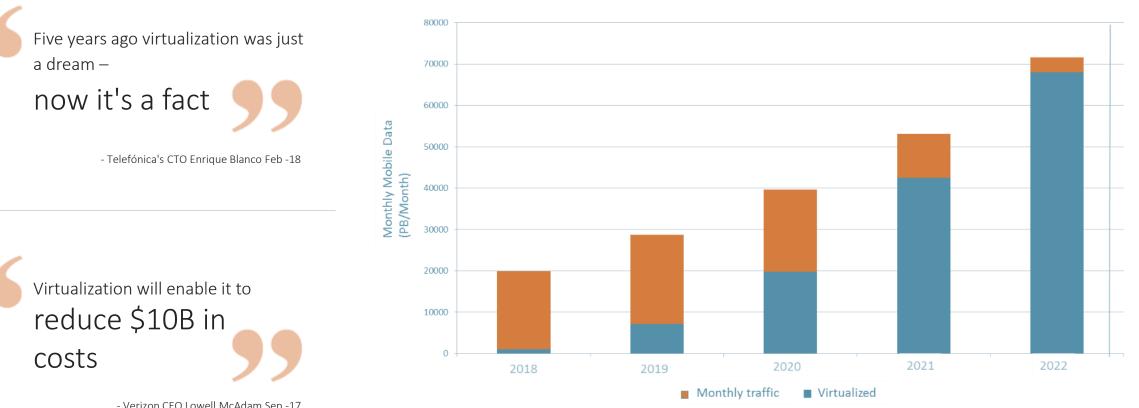
The road to 5G....

VEPC

NGC



Virtualization rollout is **a reality**

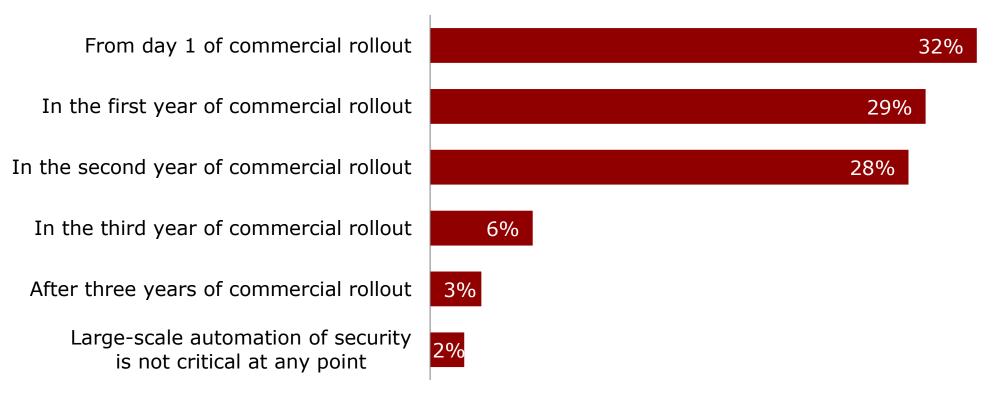


- Verizon CEO Lowell McAdam Sep -17

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vEPC

When does NFV/SDN Security become critical?



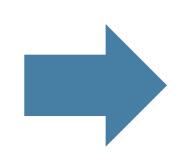
At what point in your company's commercial rollout of virtualized offerings using NFV/SDN/cloud technologies does large-scale automation of security become critical? *Source: Heavy Reading Security Perception Study 4Q17 (N=100)*





Virtualise Security



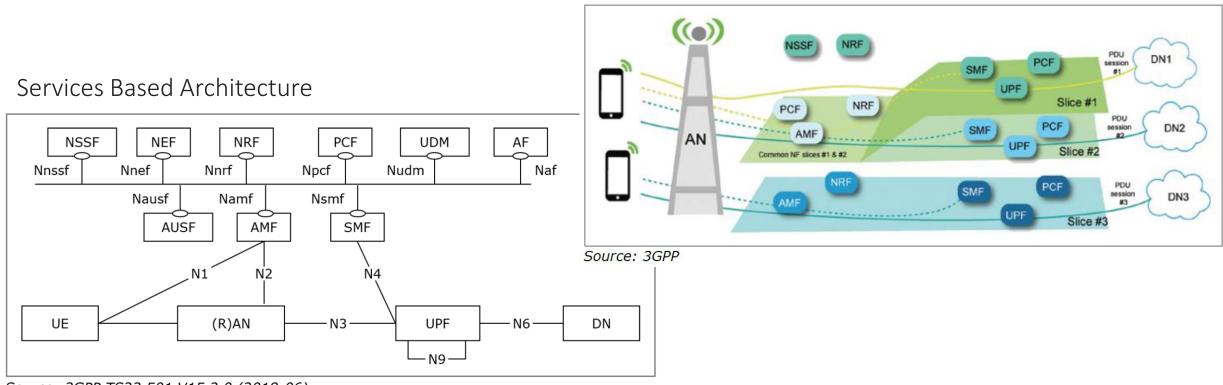




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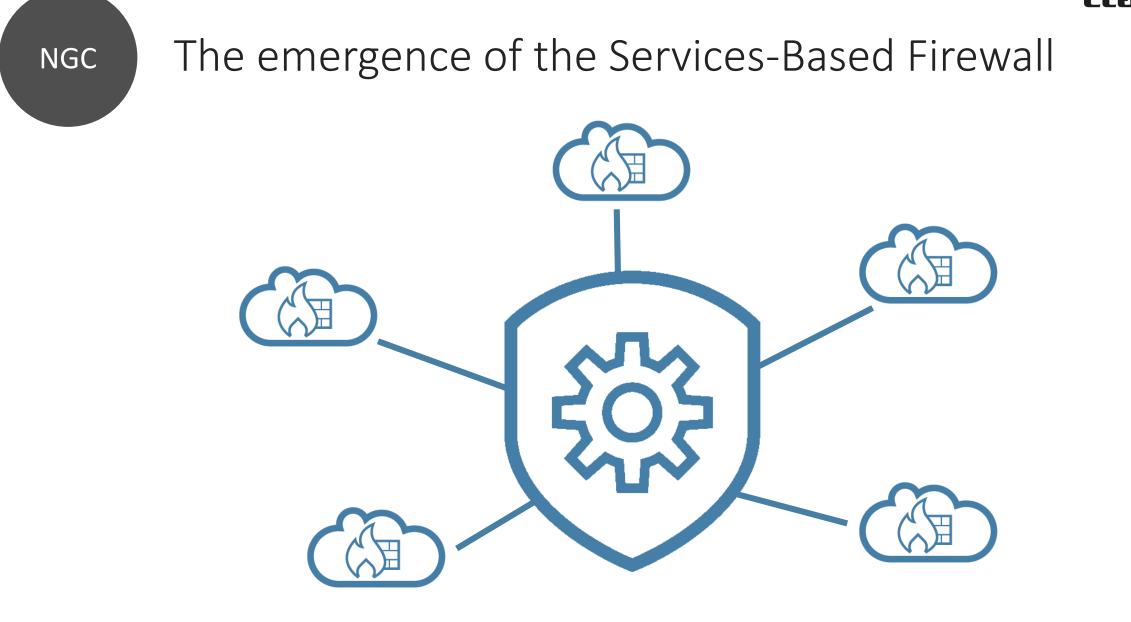


Next Generation Core



Network Slicing

Source: 3GPP TS23.501 V15.2.0 (2018-06)



NGC

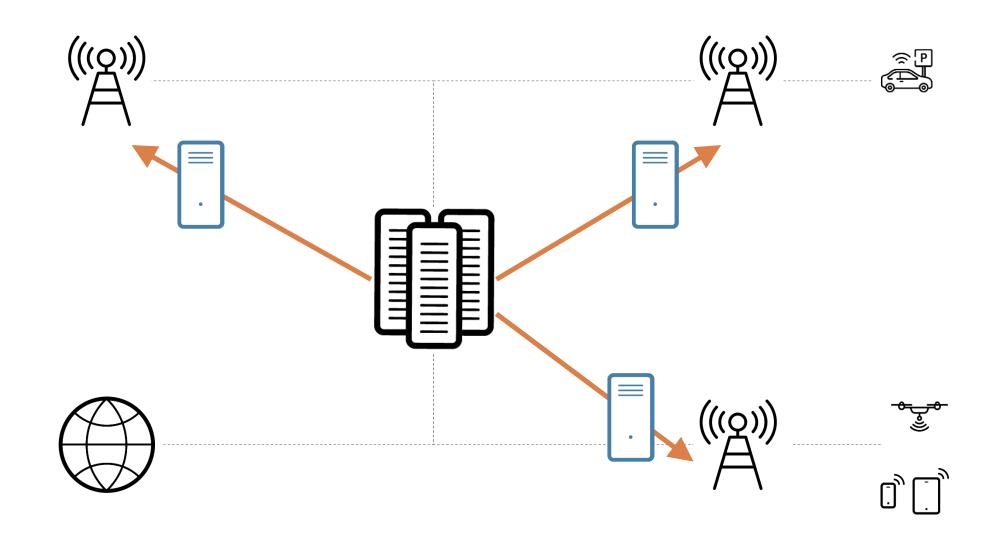
NGFW vs. SBFW

Attribute	NGFW	SBFW
Virtualized firewall	0	0
DPI	0	0
IDS	0	۵
IPSec	0	٥
Automated security policy	x	0
Software configurable at the edge	×	0
Security analytics integration	Limited	0
5G SBA architecture optimized	×	0
Effective 5G security slice enforcement	x	۵
API exposure support	Limited	٥
Advanced control plane signaling validation	×	0
Orchestration of security VNFs at the edge	×	0
Identity-driven policy enforcement	Limited	٥

Source: Heavy Reading

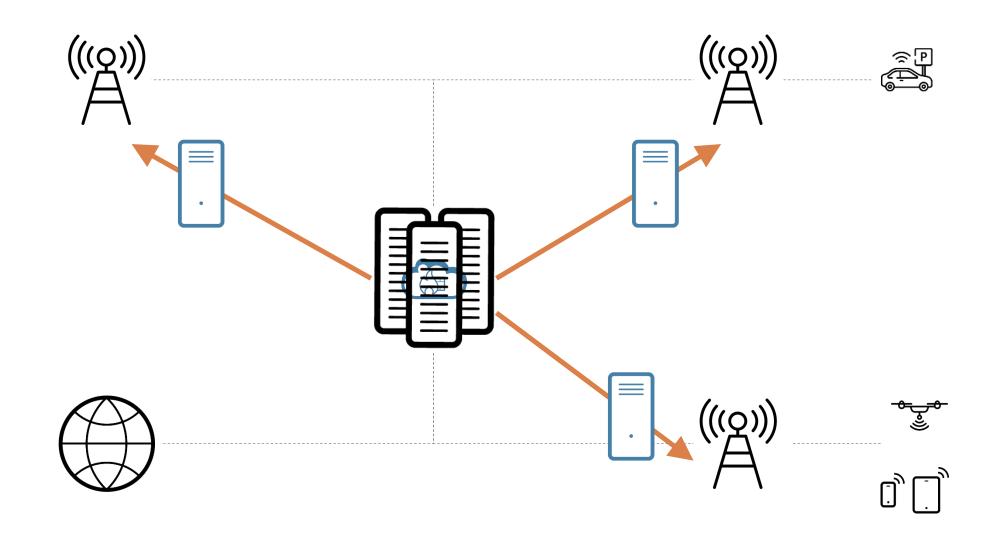


Mobile Edge Computing





Security must follow...



The road to 5G....

VEPC Start virtualizing

now!

NGC Services-based firewall meeting network slicing needs.

MEC

Low latency in your edge security.

Read the latest Heavy Reading white paper sponsored by Clavister:

5G Security VNFs

and the Emergence of the Services Based Firewall

Download your copy: https://www.clavister.com/SBFW



