

Data Center Trends detailed



BYOD, Mobility & SaaS

- Anytime, anywhere access
- User-centric apps & services
- Customer/client responsiveness

Data Center Transformation

- Server & network virtualization
- Multi-tenant public clouds
- Elasticity & agility

Network Impact

- Higher core throughput & scalability
- Higher port density
- Increased small/mixed packet traffic
- Low user latency
- IPv4 to IPv6 migration

Big Data & Internet of Things

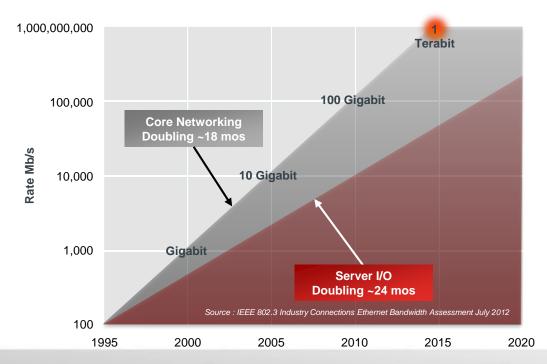
- Billions of connected devices
- Continuous data aggregation
- Warehousing of petabytes of confidential data



Data Center Performance Challenge

Data Center Firewalls

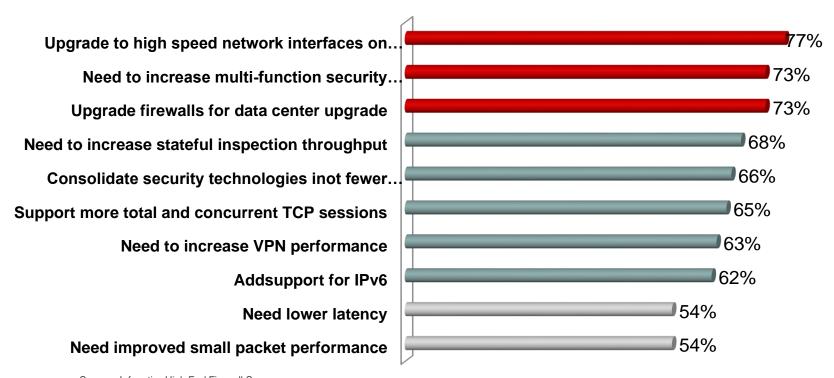






Data Center Trends: Moore's Law Effect Continues to Drive Higher Network Speeds and Interfaces



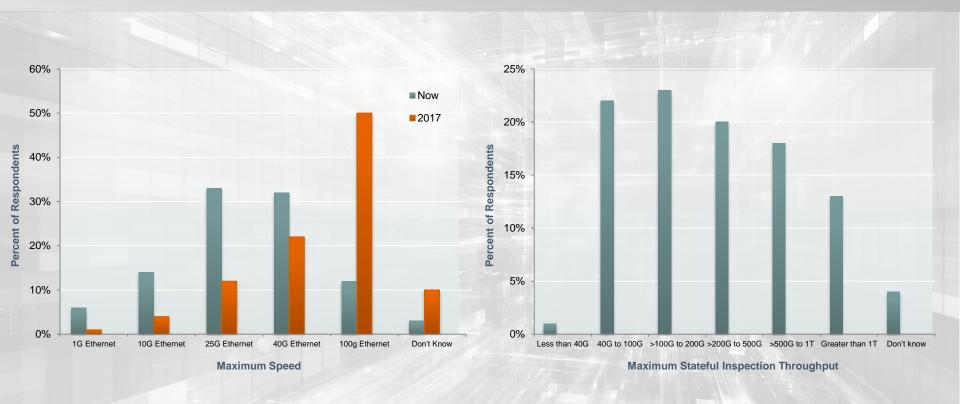


Source : Infonetics High End Firewall Survey



Data Center and Core Bandwidth Requirements

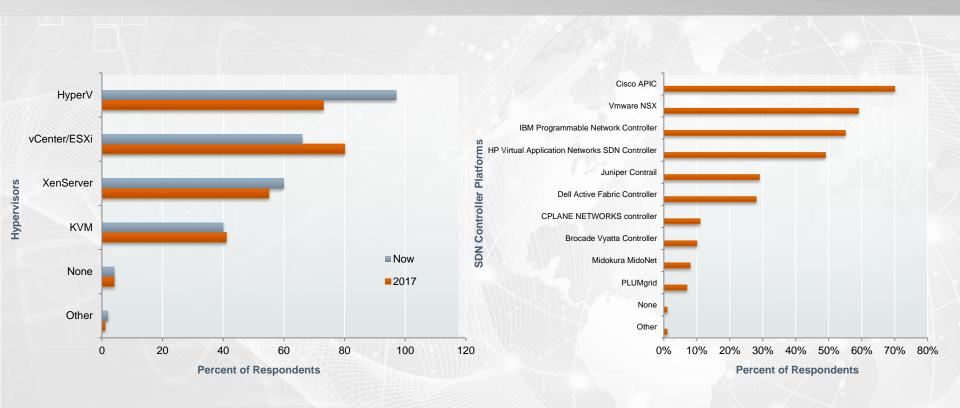






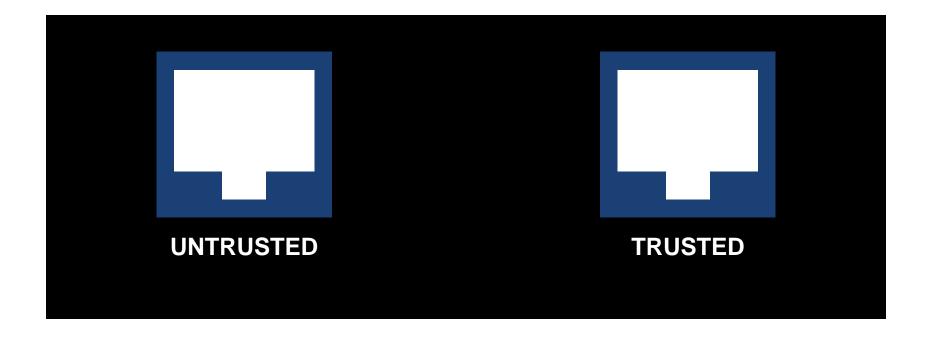
Software-Defined Networks (SDN)







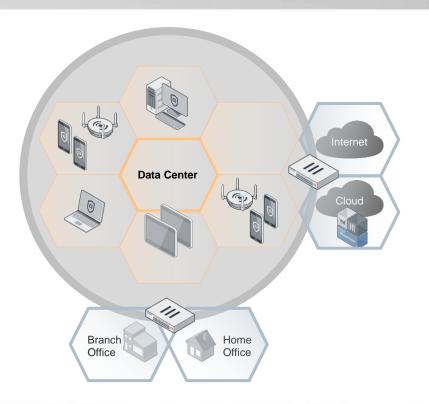
Fact – Trust & Verify Security Model





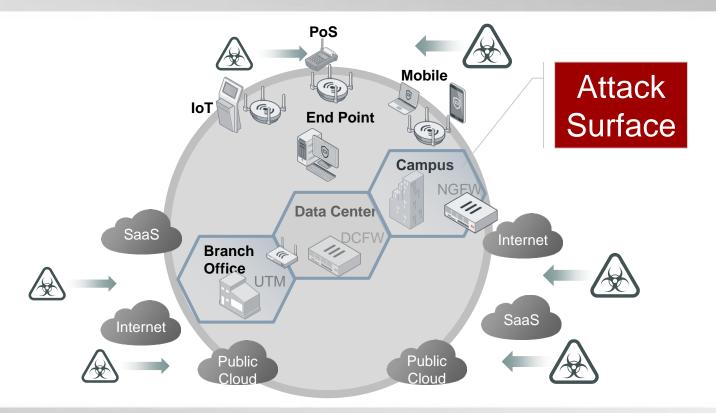
Fact – The Internal Network is Open







Fact – Attack Surface & Vectors Evolution

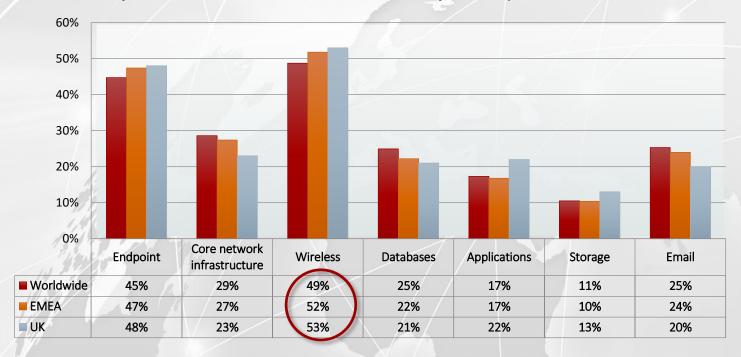




Wireless Networks Ranked as the Most Vulnerable IT Infrastructure



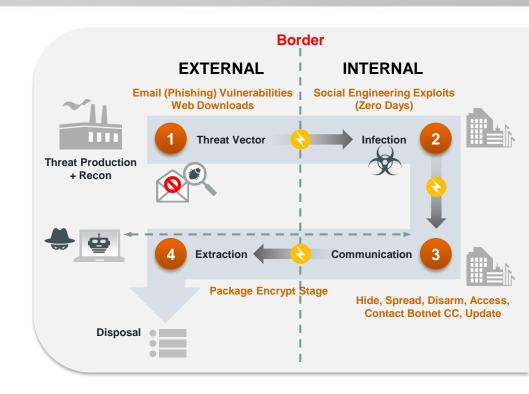
How vulnerable you believe each is from a security standpoint?





Advanced Threats Take Advantage of the "Flat Internal" Network

- Existing Firewalls focused on the Border
- Internal network no longer "trusted"
- Many ways into the network
- Once inside threats can spread quickly





Key Breach Report Trends



95%

OF MALWARE TYPES SHOWED UP FOR LESS THAN A MONTH, AND FOUR OUT OF FIVE DIDN'T LAST BEYOND A WEEK.

70-90%

OF MALWARE SAMPLES ARE UNIQUE TO AN ORGANIZATION. **50%**

NEARLY 50% OPEN E-MAILS AND CLICK ON PHISHING LINKS WITHIN THE FIRST HOUR.

23%

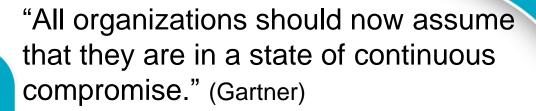
OF RECIPIENTS NOW OPEN PHISHING MESSAGES AND 11% CLICK ON ATTACHMENTS. 60%

IN 60% OF CASES, ATTACKERS ARE ABLE TO COMPROMISE AN ORGANIZATION WITHIN MINUTES.



Fact – A Breach Can't Be Avoided

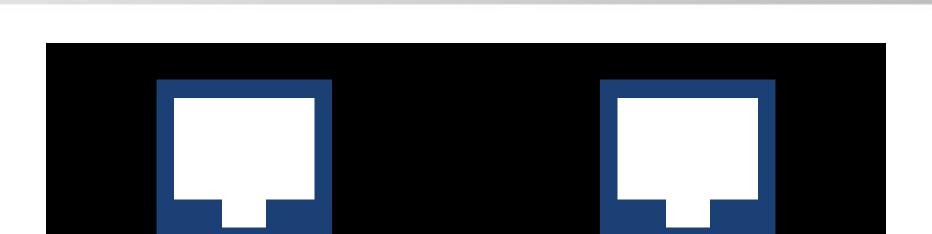




"There are two types of companies: those that have been hacked, and those that will be."
(Robert Mueller, FBI Director)



Fact – The Zero Trust Model is Gaining Traction

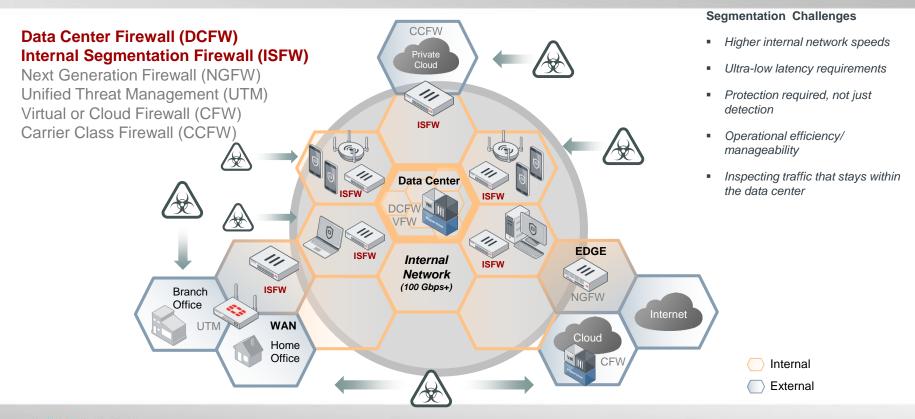


UNTRUSTED UNTRUSTED



Threat Landscape & Evolving IT Infrastructure







Requirement NO. 1 - PERFORMANCE



Data Center Firewall (DCFW) Internal Segmentation Firewall (DCFW)











Border Firewall (NGFW)

Interfaces → 10G, 40G & 100G

No. of Ports \rightarrow 8 to 48 Ge/10Ge

Throughput → 10Gps to 1Tbps

Ports Speeds → 1G, 10G

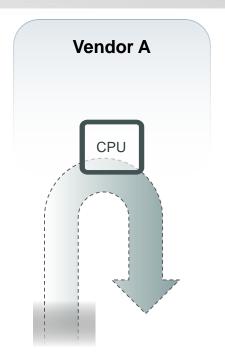
No. of Ports \rightarrow 2 to 12

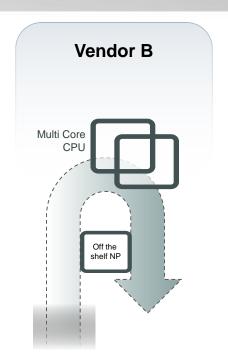
Throughput → Mbps to 1Gbps

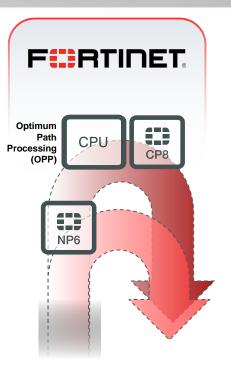


CPU versus "custom" ASIC









Requirement No. 2 - PROTECTION







Firewall VPN Application Control IPS Web Filtering Anti-malware WAN Acceleration Data Leakage Protection WiFi Controller **Advanced Threat Protection**

SaaS Gateway





Software Enabled Security Module



A Global Threat **Security** Service that Updates the Platform in Real time - FortiGuard





FAST, SECURE, GLOBAL.

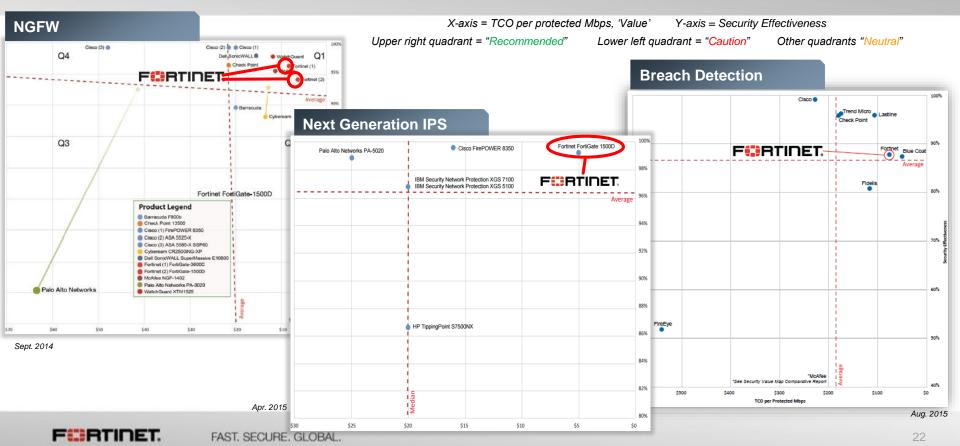
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http://threatmap.fortiguard.com



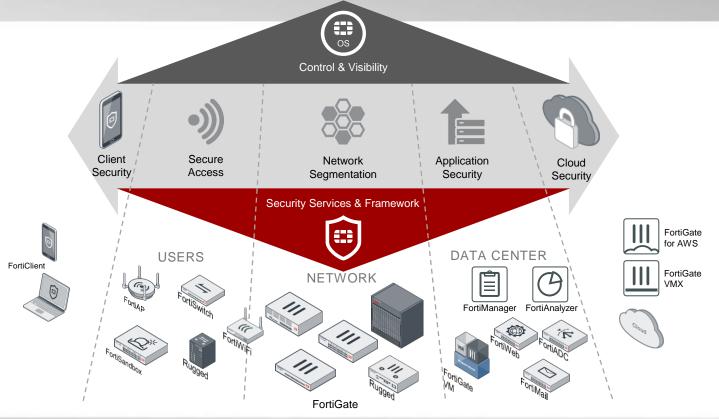
3rd Party Certification – The Proof





Requirement NO. 3 Global Cybersecurity Platform

Coverage from Endpoint to Edge to Core to Data Center to Cloud





Fortinet – Fast, Secure and Global

Accelerate your business with
 Scalable, High-performance Security

Protect your business with
 Proven, Certified Security

Simplify your business with our
 Global Cybersecurity Platform





