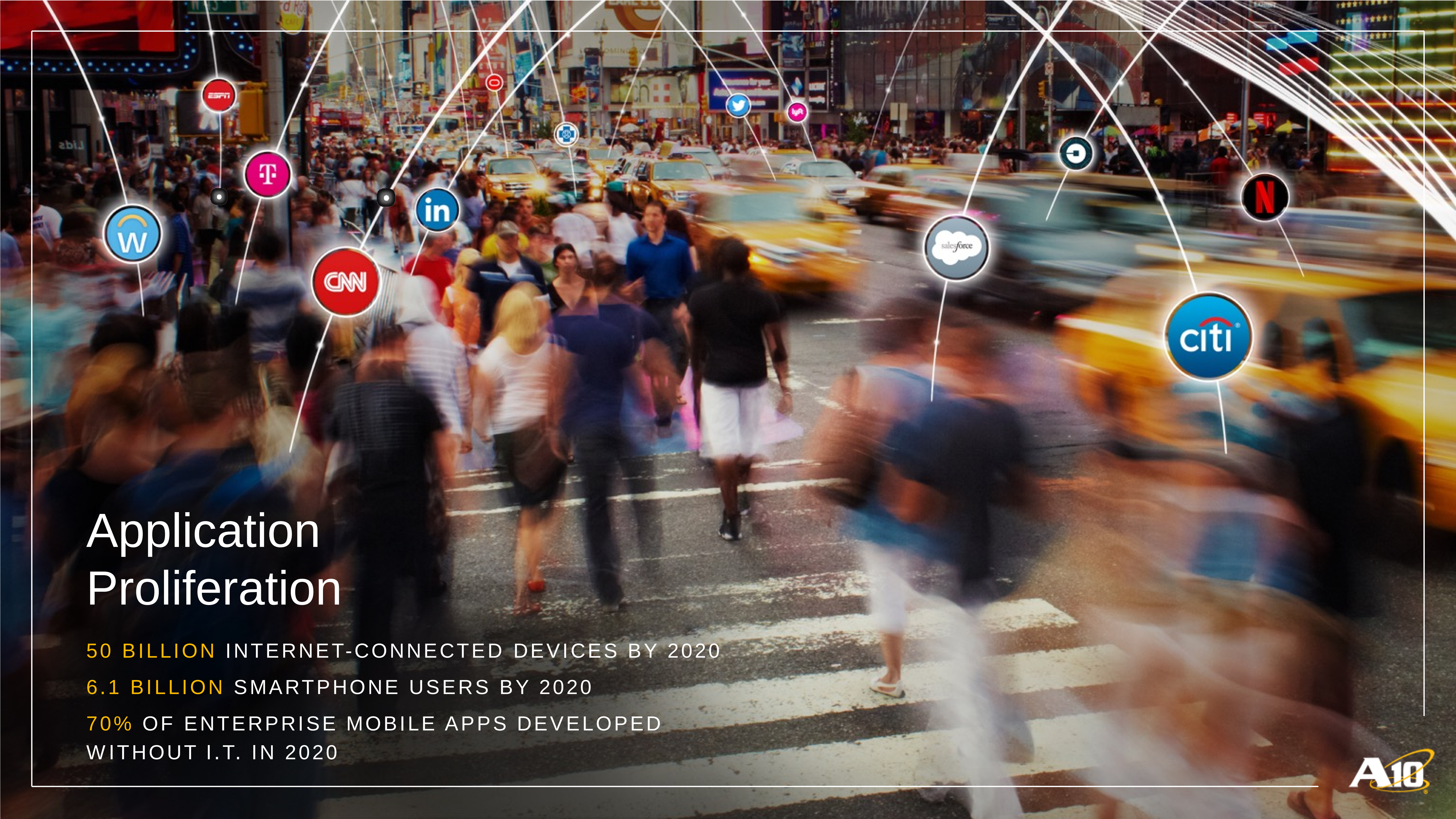
When COLOSSAL DDoS Attacks Loom



Application Proliferation

50 BILLION INTERNET-CONNECTED DEVICES BY 2020

6.1 BILLION SMARTPHONE USERS BY 2020

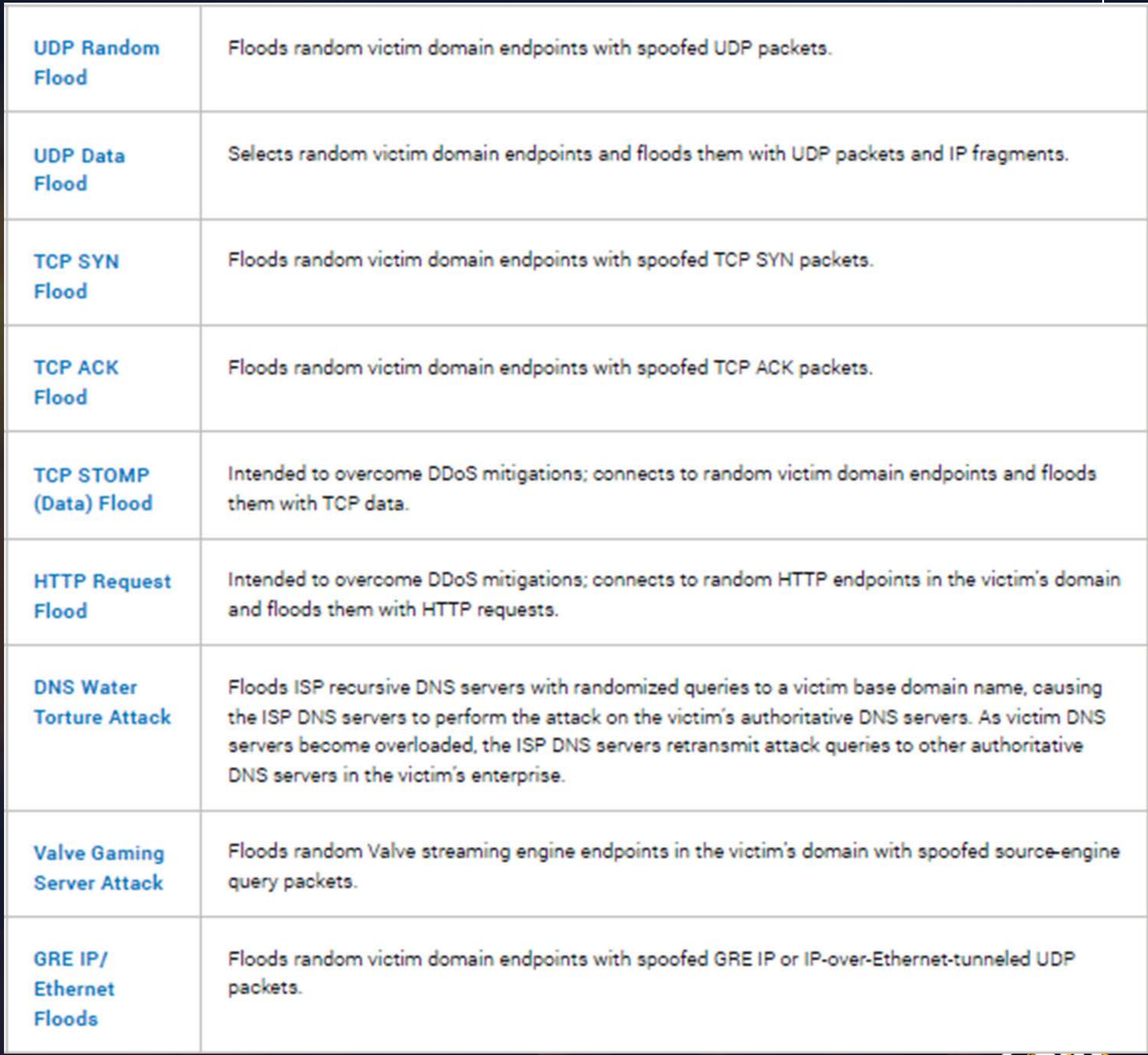
70% OF ENTERPRISE MOBILE APPS DEVELOPED WITHOUT I.T. IN 2020

Investigating
Mirai

- Massive scale multi-vector attack (MVA) – 600+ Gbps, 1+ Tbps attacks
- High-profile attacks changing the economics of protection
- IOT Powered

Investigating
Mirai

- Multi-vector attack
- 9+ vectors
- 300,000 to 500,000+ devices



UDP Random Flood	Floods random victim domain endpoints with spoofed UDP packets.
UDP Data Flood	Selects random victim domain endpoints and floods them with UDP packets and IP fragments.
TCP SYN Flood	Floods random victim domain endpoints with spoofed TCP SYN packets.
TCP ACK Flood	Floods random victim domain endpoints with spoofed TCP ACK packets.
TCP STOMP (Data) Flood	Intended to overcome DDoS mitigations; connects to random victim domain endpoints and floods them with TCP data.
HTTP Request Flood	Intended to overcome DDoS mitigations; connects to random HTTP endpoints in the victim's domain and floods them with HTTP requests.
DNS Water Torture Attack	Floods ISP recursive DNS servers with randomized queries to a victim base domain name, causing the ISP DNS servers to perform the attack on the victim's authoritative DNS servers. As victim DNS servers become overloaded, the ISP DNS servers retransmit attack queries to other authoritative DNS servers in the victim's enterprise.
Valve Gaming Server Attack	Floods random Valve streaming engine endpoints in the victim's domain with spoofed source-engine query packets.
GRE IP/ Ethernet Floods	Floods random victim domain endpoints with spoofed GRE IP or IP-over-Ethernet-tunneled UDP packets.

77%

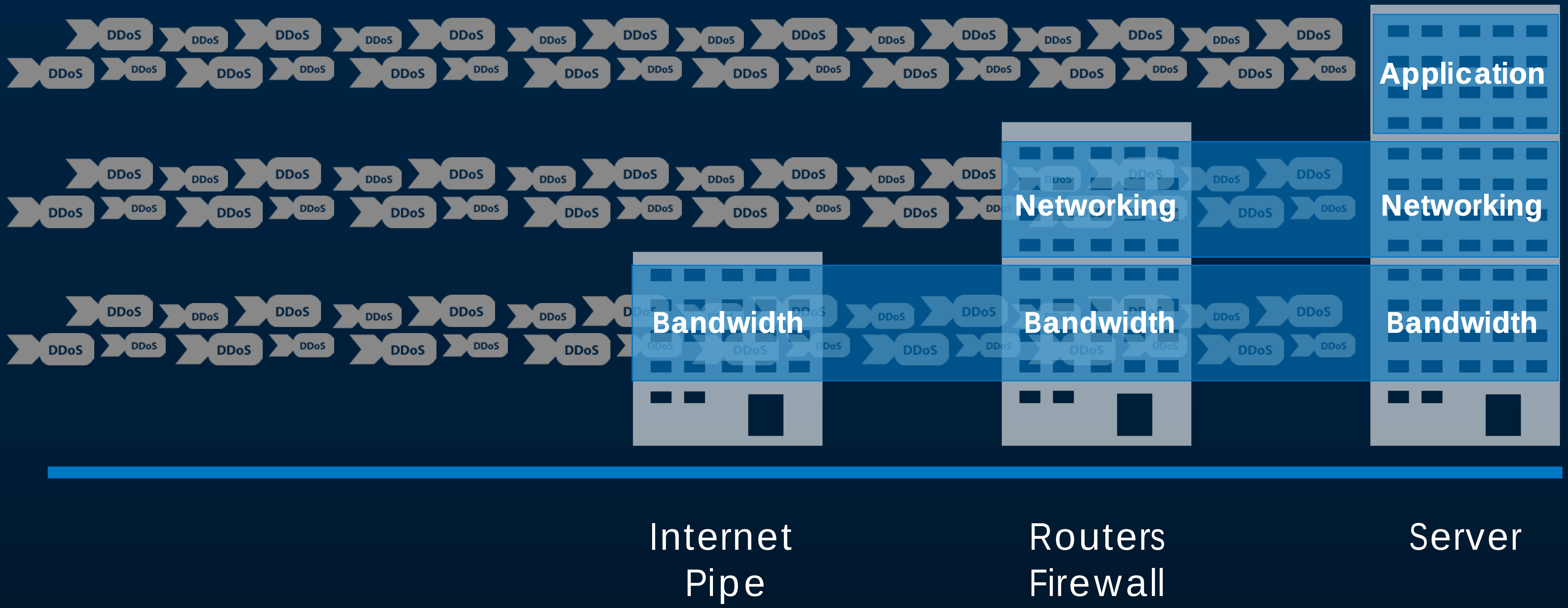
of respondents agree

“Multi-vector attacks, which include volumetric and application layer attacks, will be most dangerous in the ***future***.”

Are Your Defenses Ready?

Did you just say multi-Vector DOSS ?!

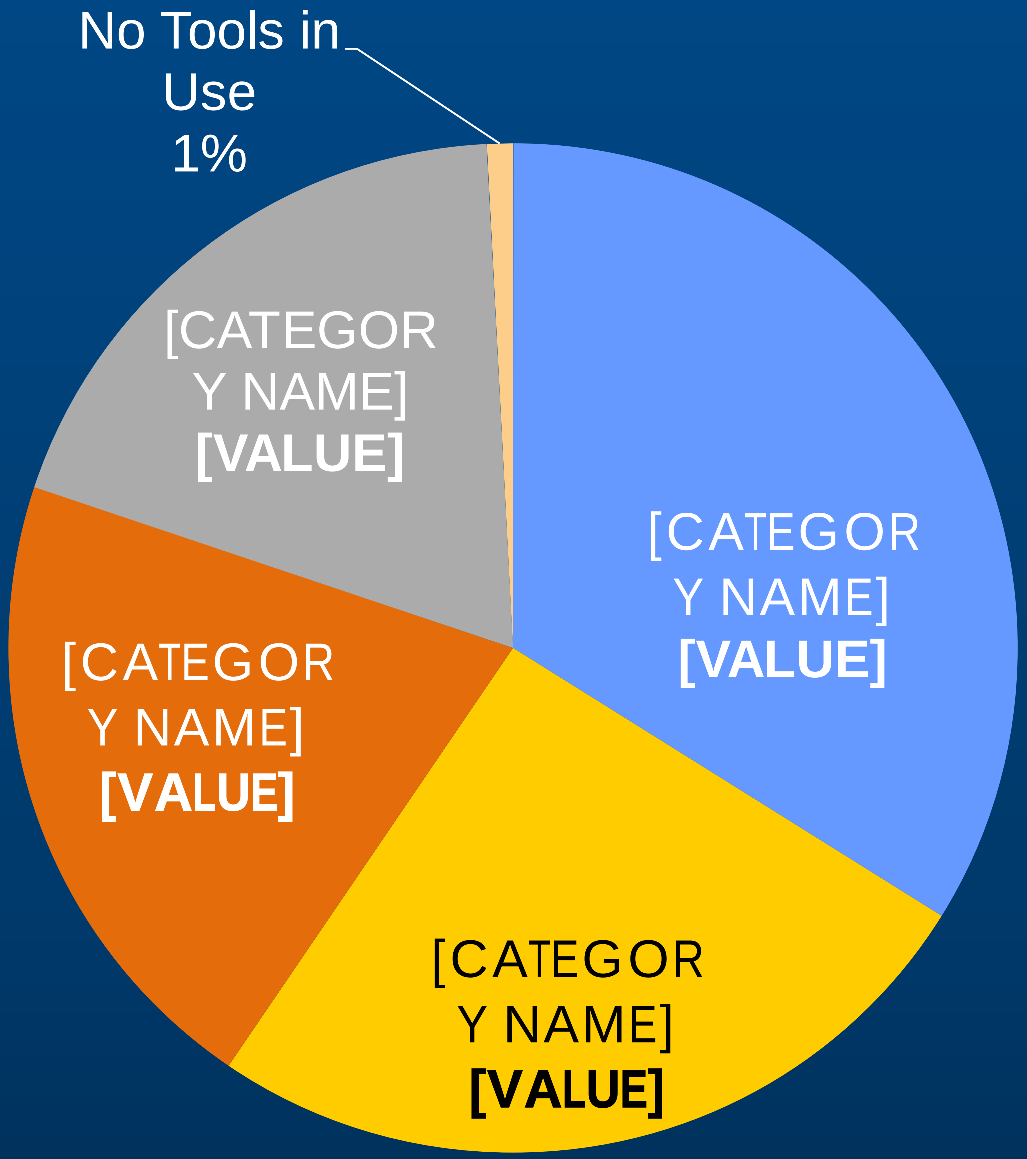
MVA: Find the Weakest Link



What is the Most Effective Solution?

Q: What current solutions do you use to address the multi-vector DDoS threat? (Select one or more) **Which is most effective? (Select one only)**

IDG CONNECT



Hybrid Solution:
On-premise with cloud bursting option

A10 Solution and Value Proposition

Brawn to Block Multi-Vector DDoS Threats

Thunder 14045

(300 Gbps, 440 Mpps)

Highest Mitigation for SP & Giants

Thunder 840 & vThunder

Turnkey Enterprise & NFV Solutions

Support w/DSIRT & Threat Intel

Enhanced Support

New A10 Thunder 14045:
Highest Mitigation

- **For high-performance networks**
  - Service providers, websites, online gaming, and more
- Performance
  - **300 Gbps, 440 Mpps**, 2.4 Tbps list synchronization cluster
- Specification highlights*
  - SPE with FPGA, 4x18 core Xeon, 3 RU, 4x100 GbE, 2+2 redundant 80 Plus Platinum rated power supplies

General availability with ACOS 3.2.2.P1 – Q4 2016

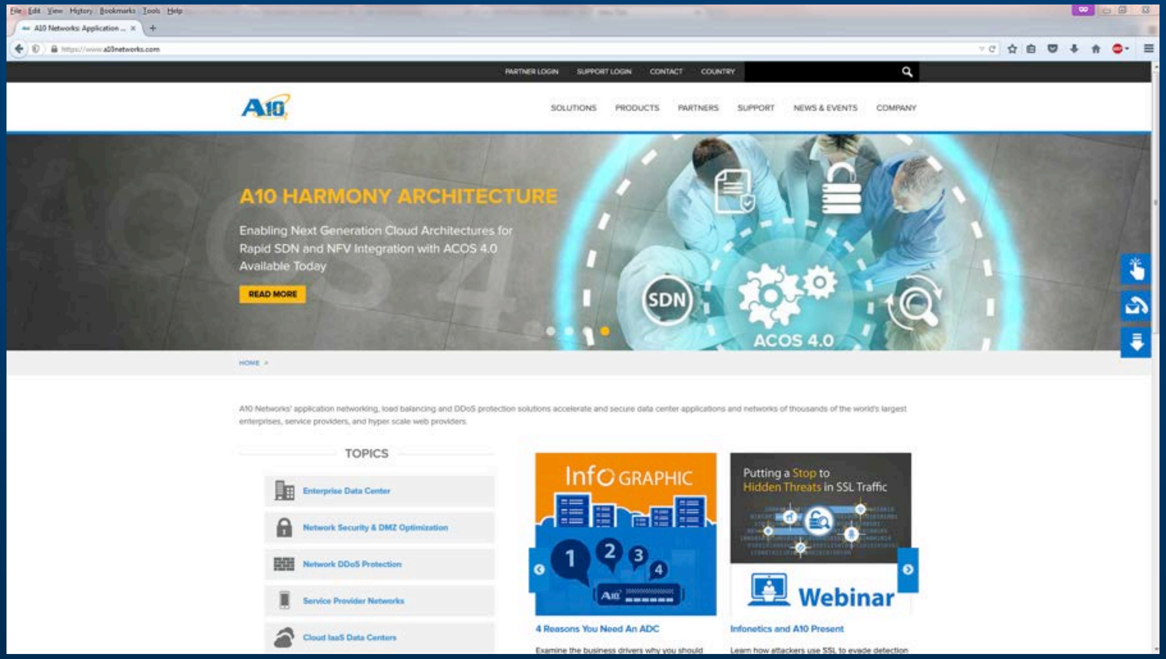
True Multi-vector Protection – True MVP

100% UPTIME

Multi-tiered, inc. Hardware offload

High bandwidth capacity

Max CPU resources for DPI



A10 HARMONY ARCHITECTURE

Enabling Next Generation Cloud Architectures for Rapid SDN and NFV Integration with ACOS 4.0 Available Today

A10 Networks' application networking, load balancing and DDoS protection solutions accelerate and secure data center applications and networks of thousands of the world's largest enterprises, service providers, and hyper scale web providers.

Putting a Stop to Hidden Threats in SSL Traffic

4 Reasons You Need An ADC

Examine the business drivers why you should

Infonetics and A10 Present

Learn how attackers use SSL to evade detection

Thunder TPS

Full attack spectrum protection

- Best protection against Multi-vector attacks
- 60 FTA hardware mitigations
- Verisign partnership for high bandwidth attacks

Powerful and efficient

- Mitigate up to 155 Gbps of attack throughput
- 223 M packets per second (pps) in 1 rack unit

Full control for agile protection

- Programmatic Policy Engine
- 3rd party integration
- Many deployment modes

Powerful and efficient
Full attack spectrum protection
Full control for agile protection

Next Generation DDoS Protection
For True MVP

Enhanced Support: Support w/DSIRT & Threat Intel

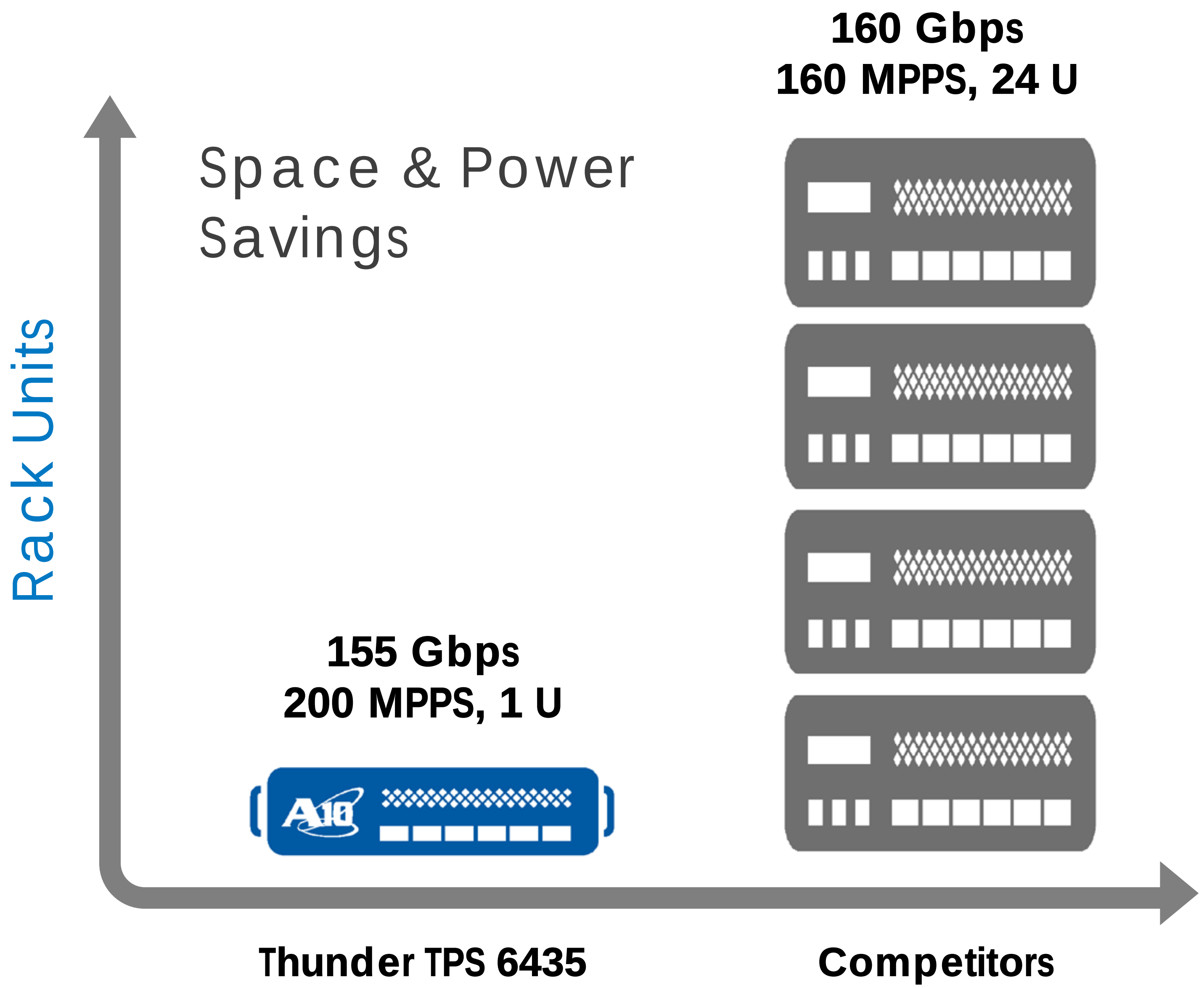
- Augmented 24x7x365 support offering
- DSIRT (DDoS Security Incident Response Team) support included (**new**)
- Augmented by dynamic A10 Threat Intelligence Service (**now included**)

Success Story

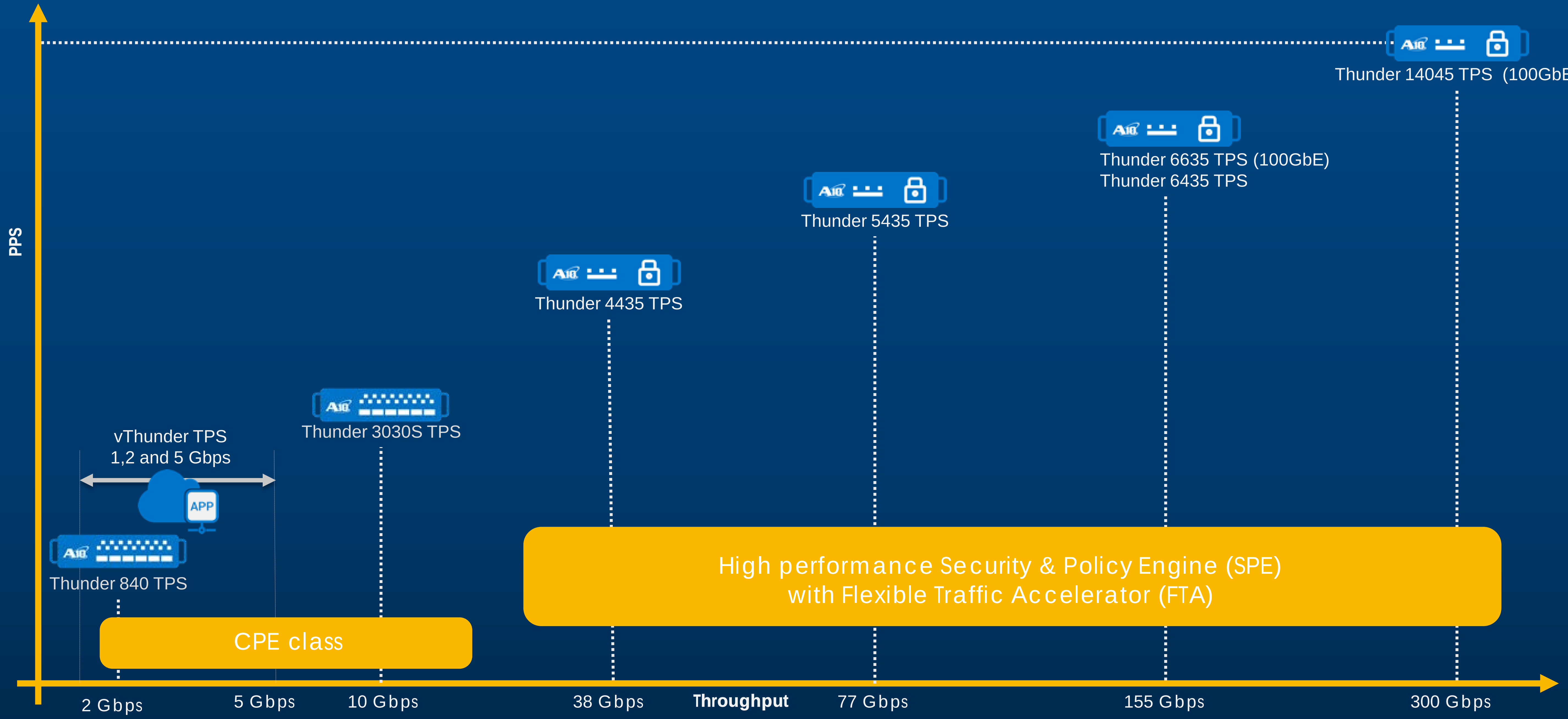
- Replaced the legacy Competitors with A10 Thunder TPS

Benefits

- Platform with rich mitigation features
- Platform with RESTful API to enable easier integration into their custom detection system
- Platform to enable agile development, ~40 new features implemented in 6 months
- $2.5 M+ savings per site, 80%+ support savings (Reduced CAPEX and OPEX)



Thunder TPS Appliances

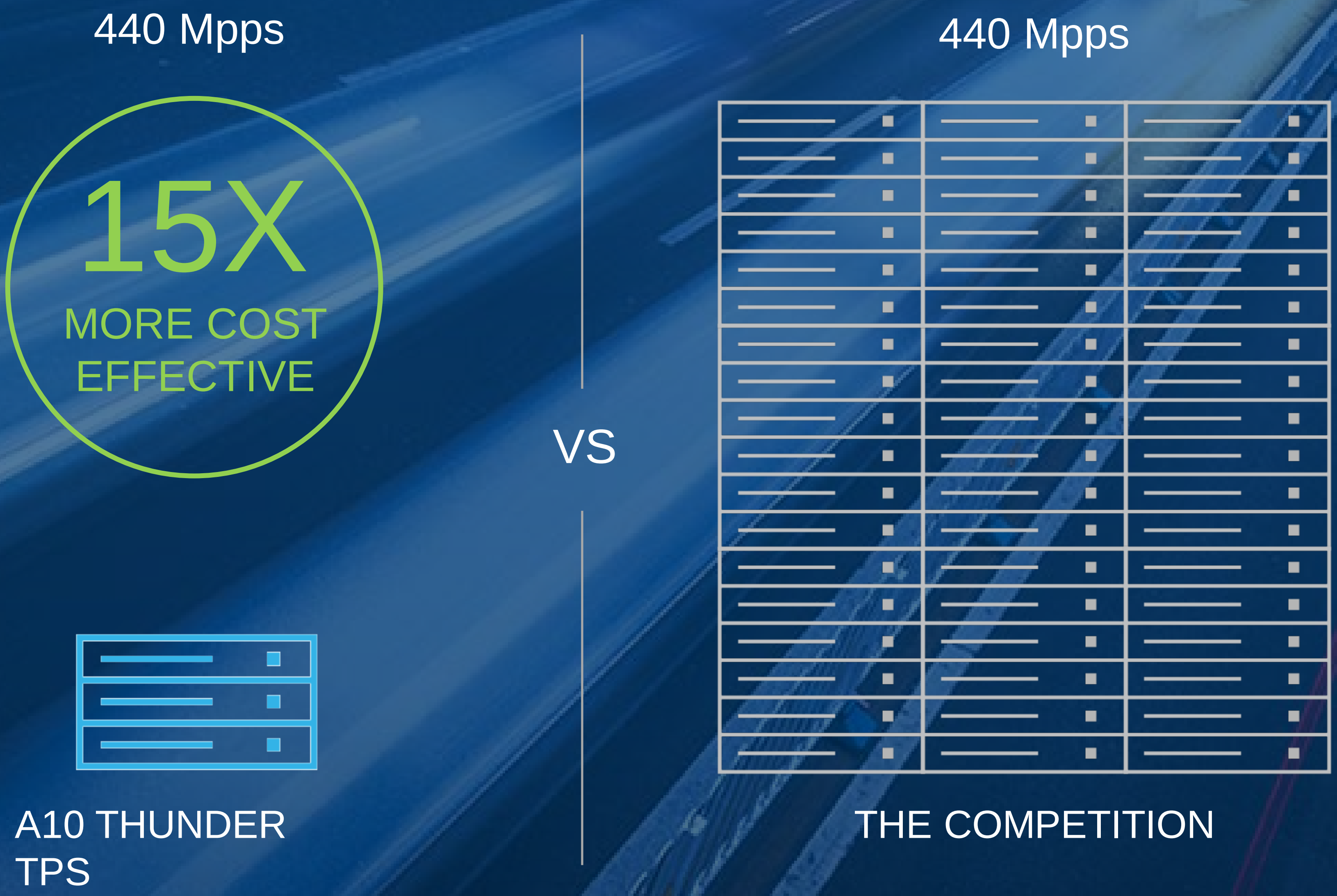


A10 **DDoS** Product Differentiation

ADC in Data Center: Application Protection

TPS in BGP Perimeter: Full Network Protection

Changing Economics As Attacks Escalate



440 Mpps

15X

MORE COST EFFECTIVE

A10 THUNDER TPS

VS

440 Mpps

THE COMPETITION

BS APPS ▾ BS PRODUCTS ▾ BS SPECIALS ▾ BS E-PAPER

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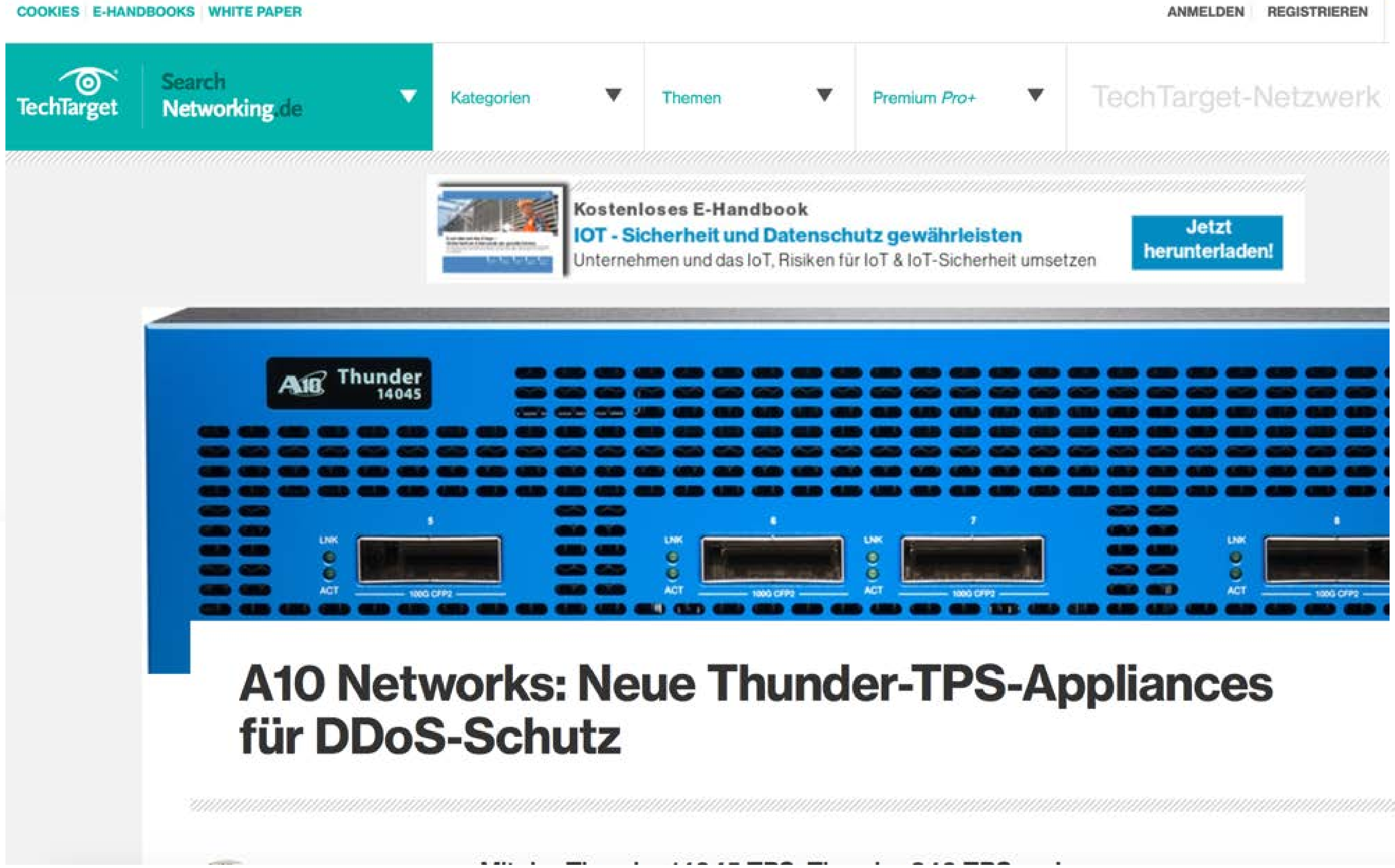

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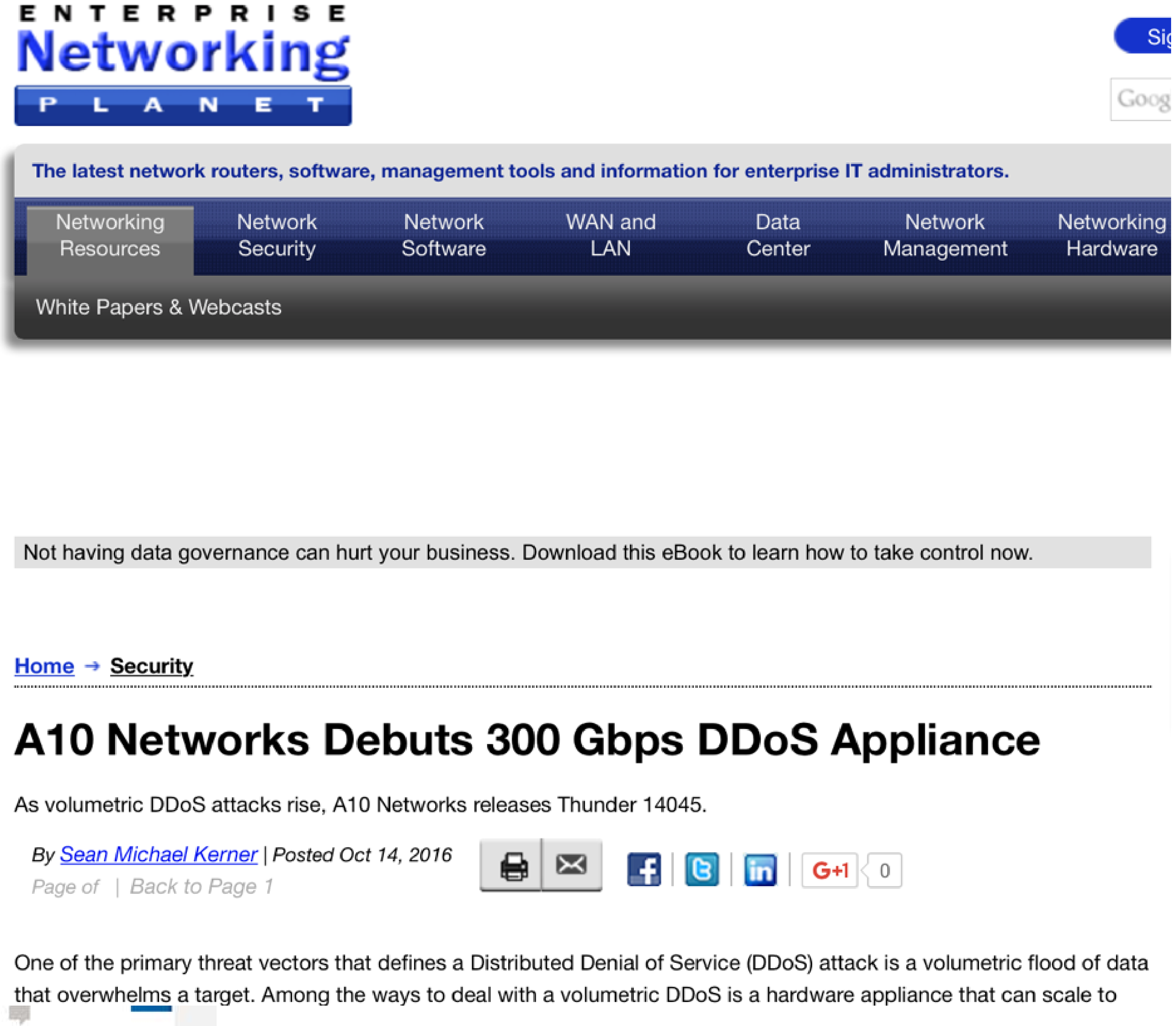
Kostenloses E-Handbook

IOT - Sicherheit und Datenschutz gewährleisten

Unternehmen und das IoT, Risiken für IoT & IoT-Sicherheit umsetzen

Jetzt herunterladen!

A10 Networks: Neue Thunder-TPS-Appliances für DDoS-Schutz



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A10 Networks Debuts 300 Gbps DDoS Appliance

As volumetric DDoS attacks rise, A10 Networks releases Thunder 14045.

By Sean Michael Kerner | Posted Oct 14, 2016

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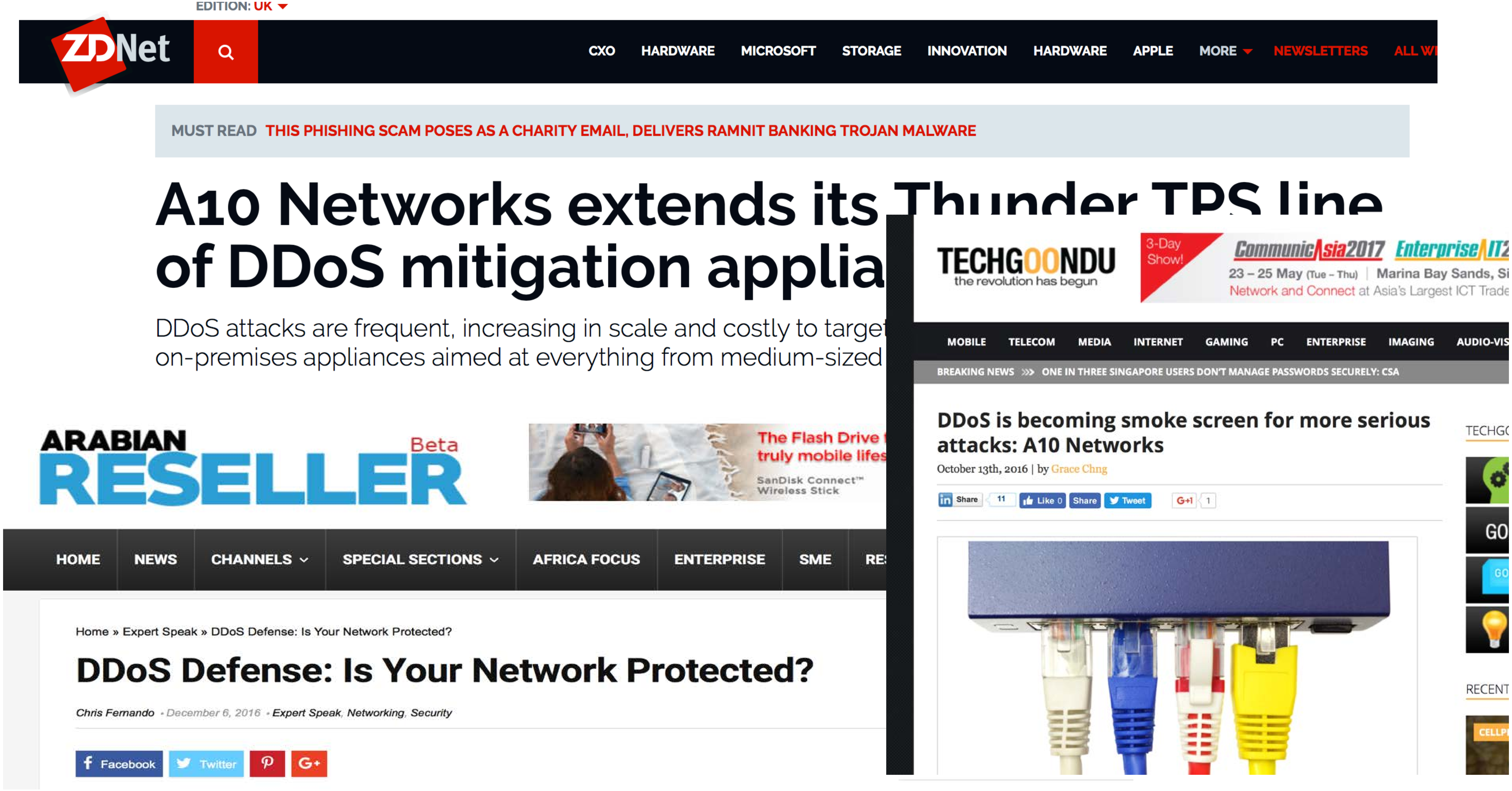
G+1 0

One of the primary threat vectors that defines a Distributed Denial of Service (DDoS) attack is a volumetric flood of data that overwhelms a target. Among the ways to deal with a volumetric DDoS is a hardware appliance that can scale to



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ZDNet
CXO HARDWARE MICROSOFT STORAGE INNOVATION HARDWARE APPLE MORE NEWSLETTERS ALL WI

MUST READ THIS PHISHING SCAM POSES AS A CHARITY EMAIL, DELIVERS RAMNIT BANKING TROJAN MALWARE

A10 Networks extends its Thunder TPS line of DDoS mitigation applia

DDoS attacks are frequent, increasing in scale and costly to target on-premises appliances aimed at everything from medium-sized

ARABIAN RESELLER Beta
The Flash Drive truly mobile lifes
SanDisk Connect™ Wireless Stick
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Home » Expert Speak » DDoS Defense: Is Your Network Protected?

DDoS Defense: Is Your Network Protected?

Chris Fernando • December 6, 2016 • Expert Speak, Networking, Security

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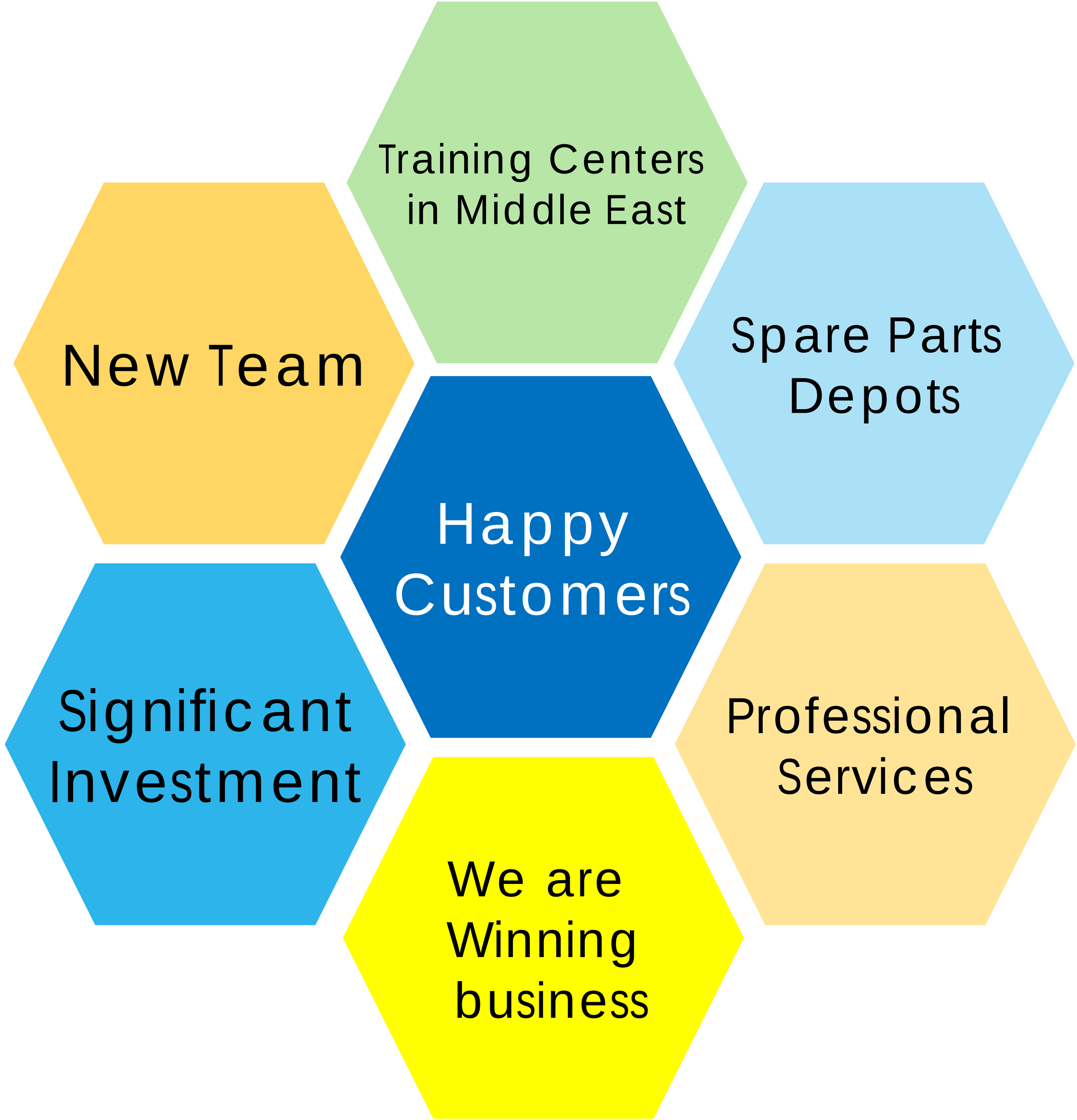
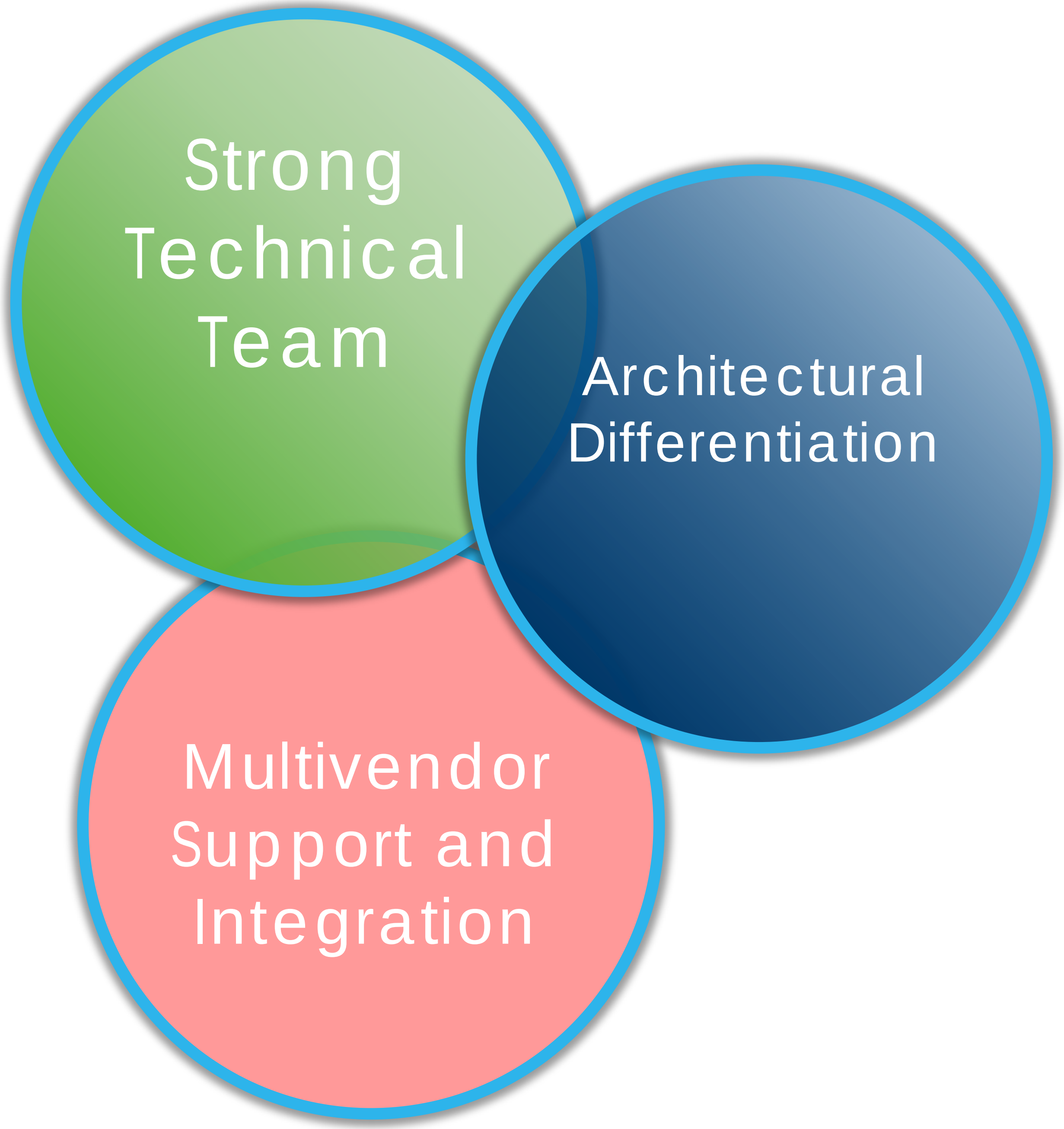
October 13th, 2016 | by Grace Chng

A10 Networks Winning Recipe

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Architectural Differentiation
Multivendor Support and Integration

A10 Networks **Champions For Saudi Arabia**

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performance of the mos tem
resources, processors a wing
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ON PREMISE
THUNDER CFW
THUNDER SSLi
SECURE

A10 Middle East Open for Business…

Thank you