

Network & Security Visibility

You can only protect what you see on your network

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A Trusted & Innovative Market Leader

Gigamon provides network visibility and analytics on all traffic across physical, virtual and cloud networks to solve critical security and performance needs – freeing you to drive business optimization

ABOUT GIGAMON

- + HQ: Santa Clara, CA, USA
- + Founded in 2004
- + 20 Global Offices

INNOVATION

- + #1 Market Share
- + 37% share: 2.5 times nearest competitor
- + 75+ Global Patents

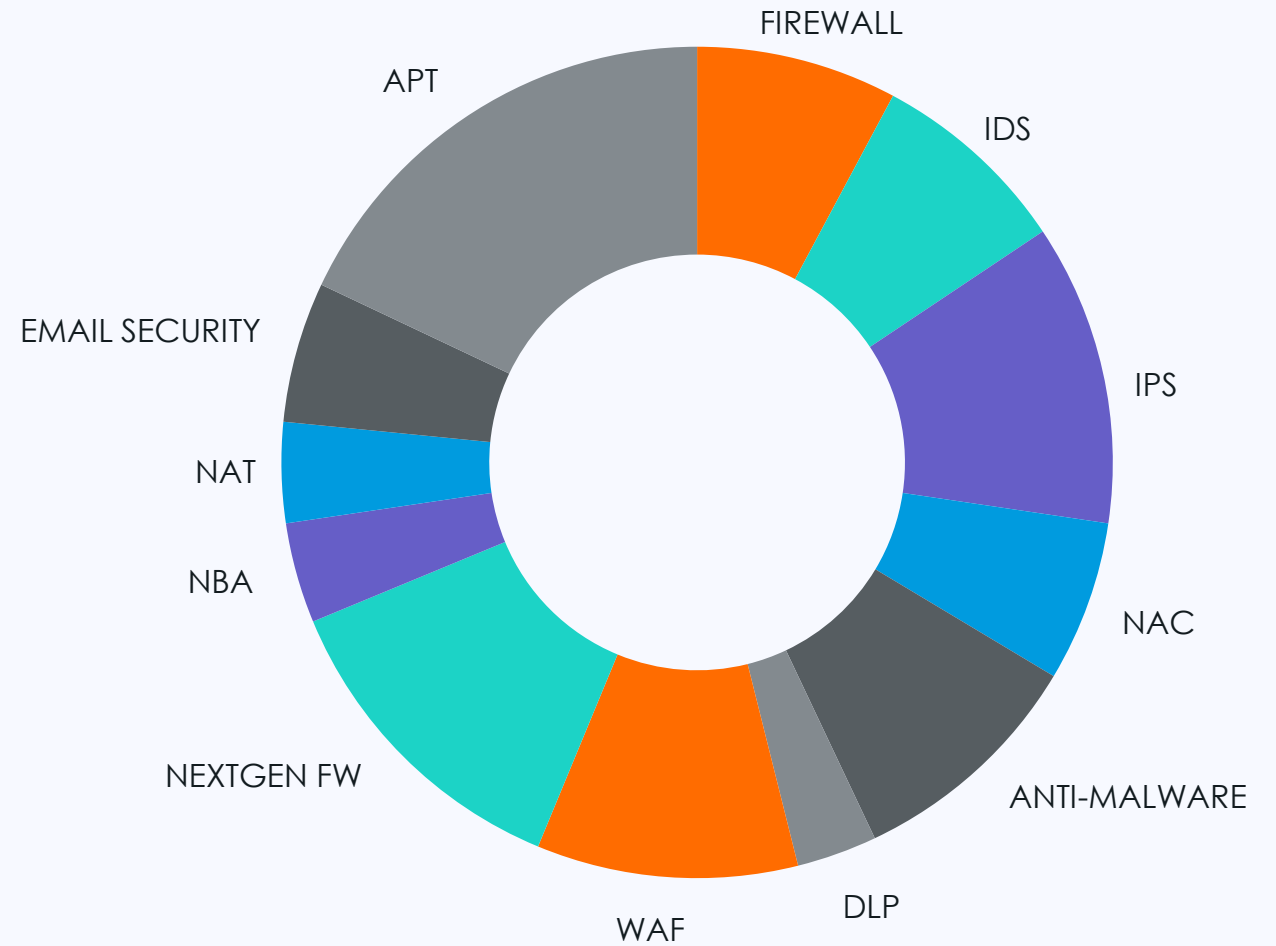
SERVING

- + 3,500+ Customers
- + 83 of the Fortune 100
- + 8 of the Top 10 Mobile Network Operators
- + 7 of the Top 10 Global Banks
- + 10 of the Top 10 Government Agencies
- + 8 of the Top 10 Healthcare Providers
- + Customer Satisfaction 4.8/5.0

VERTICALS

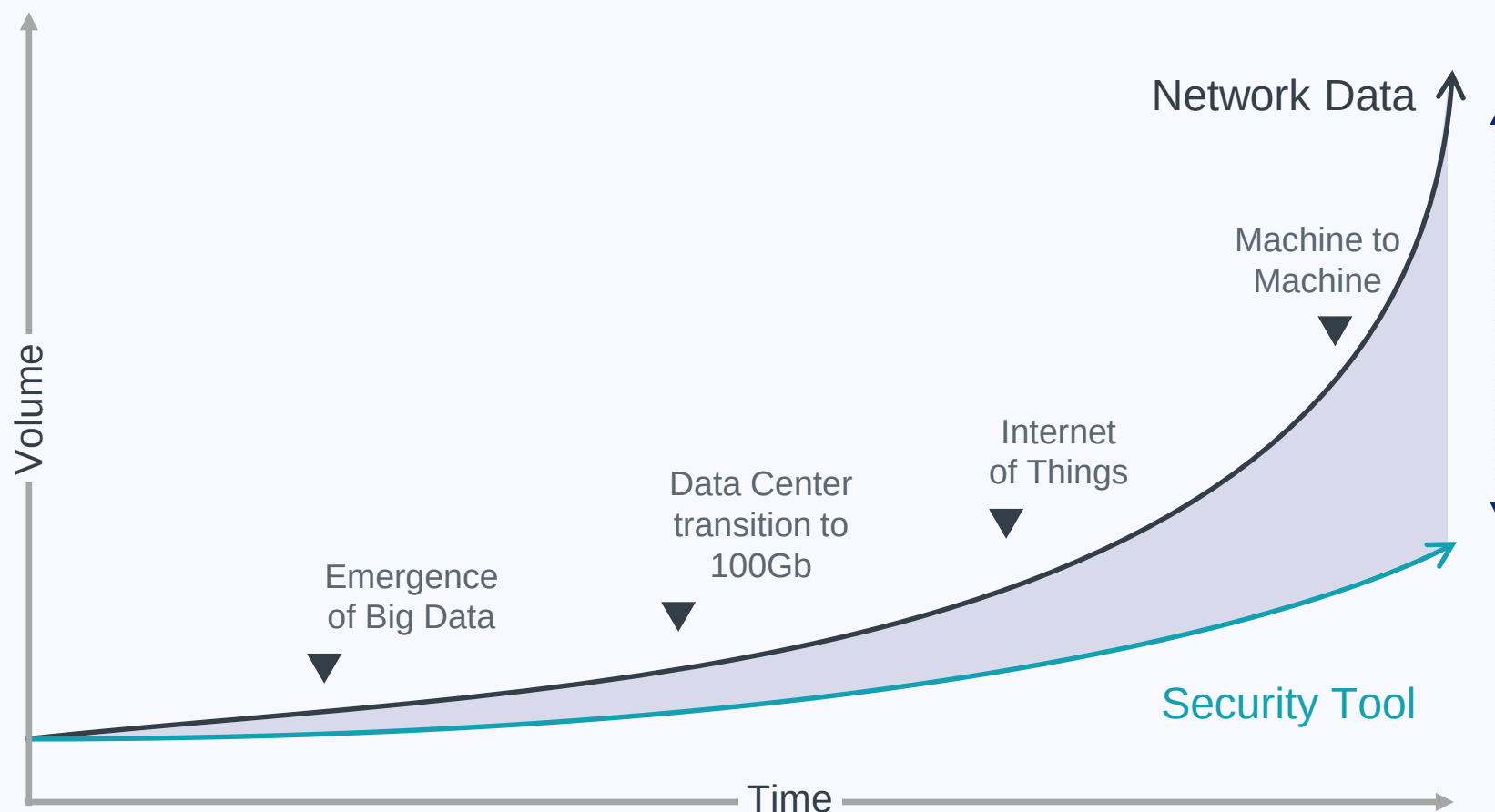
- + Service Providers
- + Technology
- + Utility
- + Financial Services
- + Healthcare
- + Retail
- + Public Sector

Security Landscape is Always Changing – Security Tools



The Data-in-Motion Dilemma

Volume + Speed + Threats = Complexity + Risk + Cost



Security tools do not scale as fast as data



0.96 ns available to process a network packet on a 100Gb link



6.8ZB of global data center traffic in 2016*

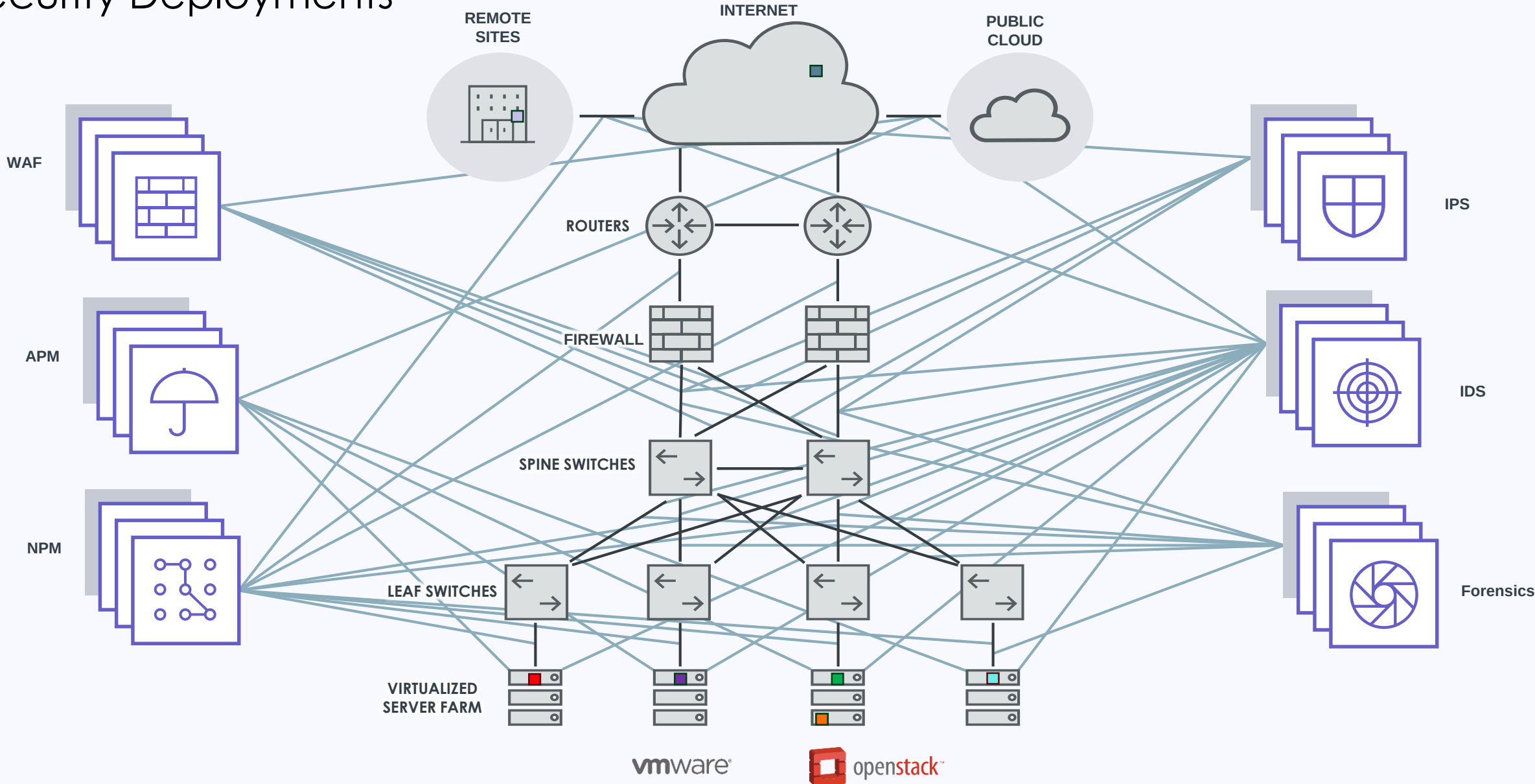


1.7PB of M2M traffic in 2017**

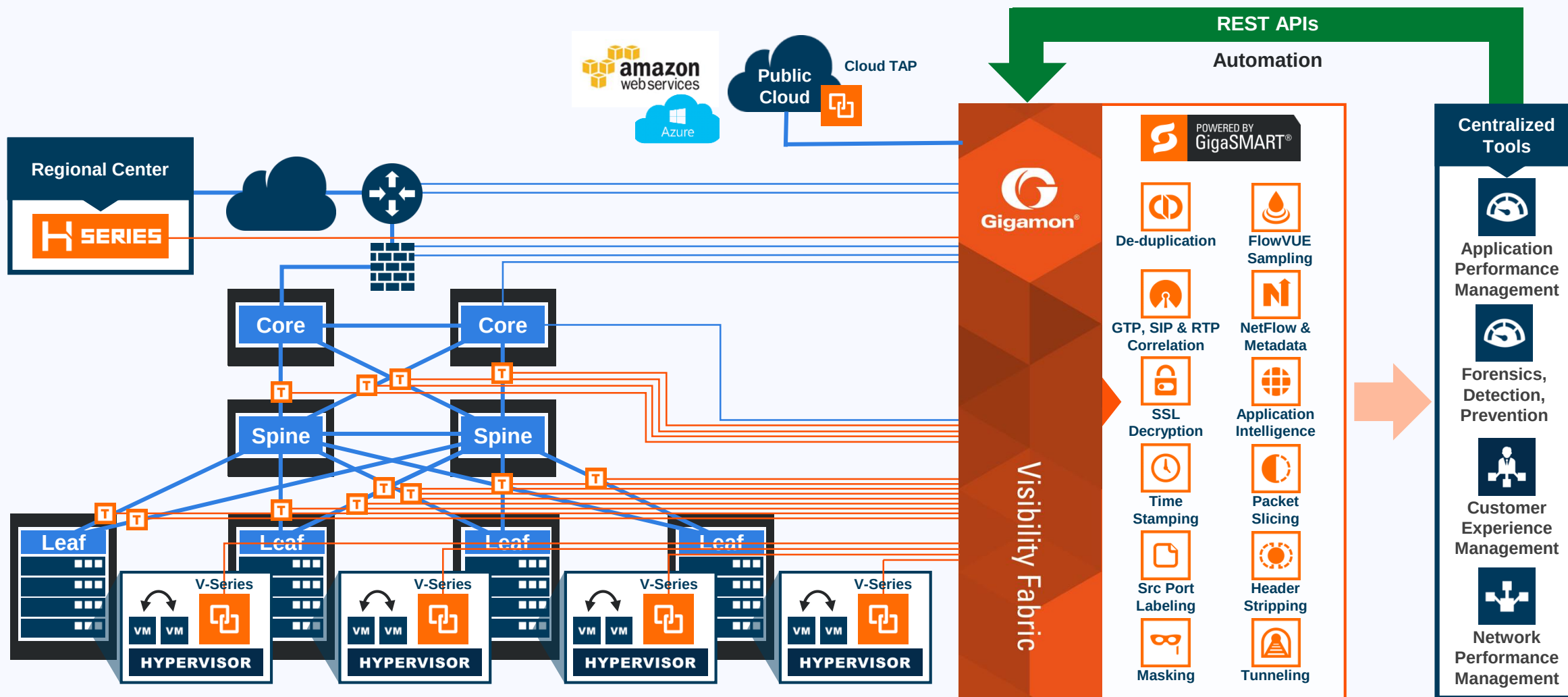
* [Cisco Global Cloud Index: Forecast and Methodology, 2016–2021](#) White Paper. Cisco. Feb 2018.

** Statista Global machine-to-machine (M2M) data traffic from 2014 to 2019 (in petabytes per month)

Challenges with Ad Hoc Security Deployments



Complete Visibility into Data-in-Motion





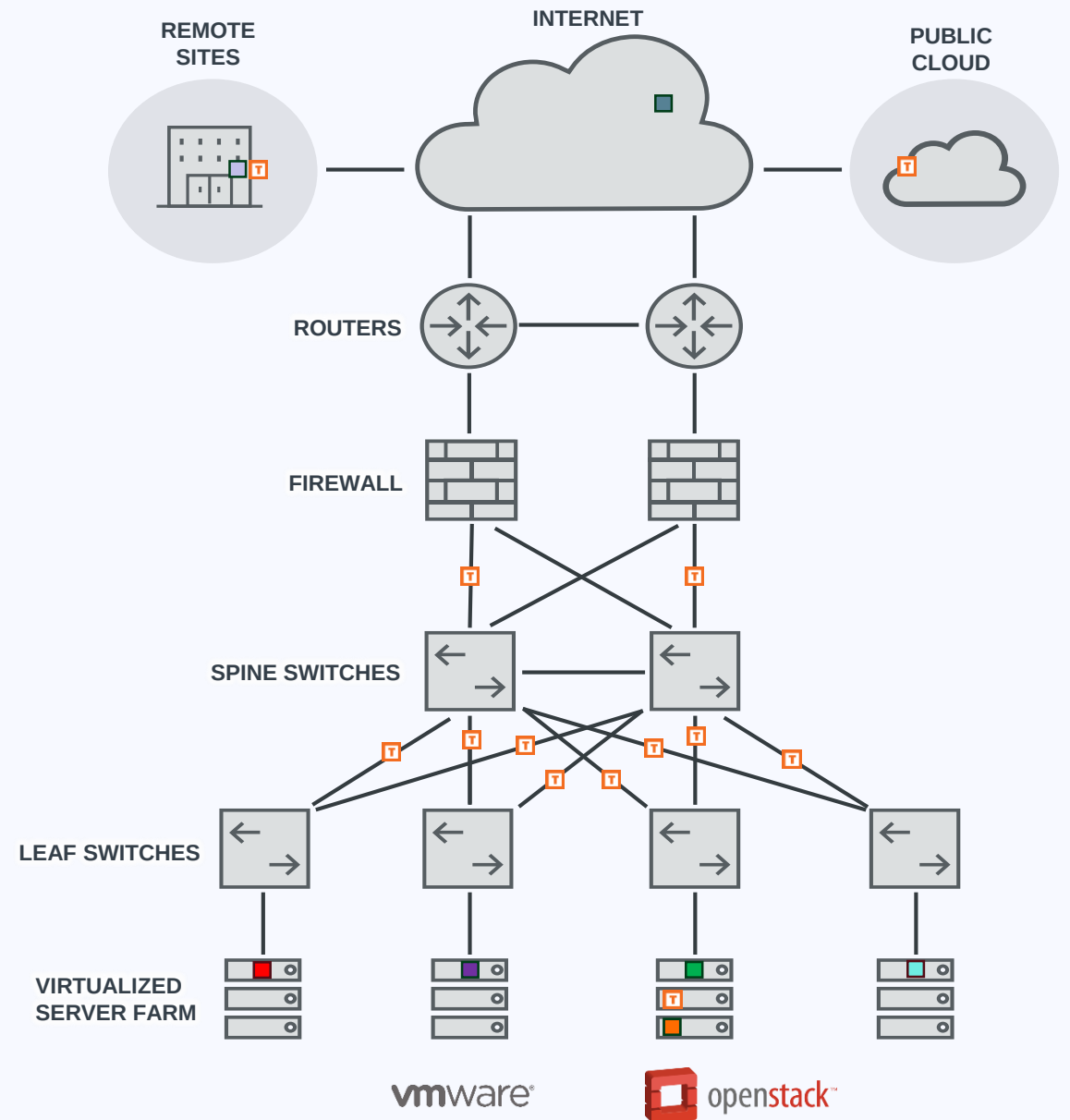
Use Case:

1. First Step to Visibility: Get Reliable Data Access for Tools

TAP – Test Access Point

Definition: Physical or virtual monitoring device that mirrors the traffic that is passing between network nodes

Benefit: Monitoring of the network without disturbing it





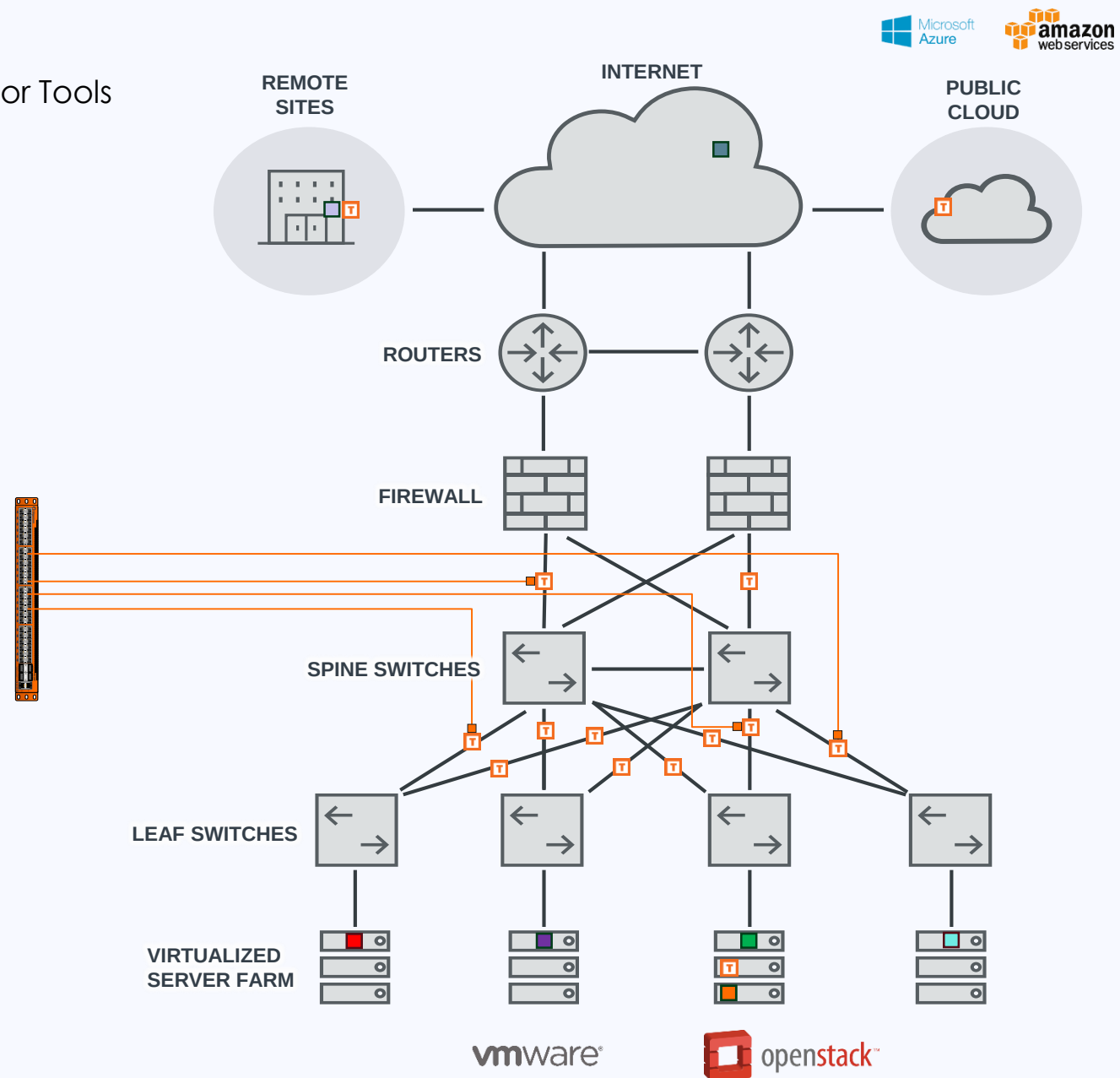
Use Case:

1. First Step to Visibility: Get Reliable Data Access for Tools

Traffic Aggregation (TA)

Definition: Device gathering traffic from network TAPs and SPANs across the network

Benefit: Grants pervasive view into network traffic





Use Case:

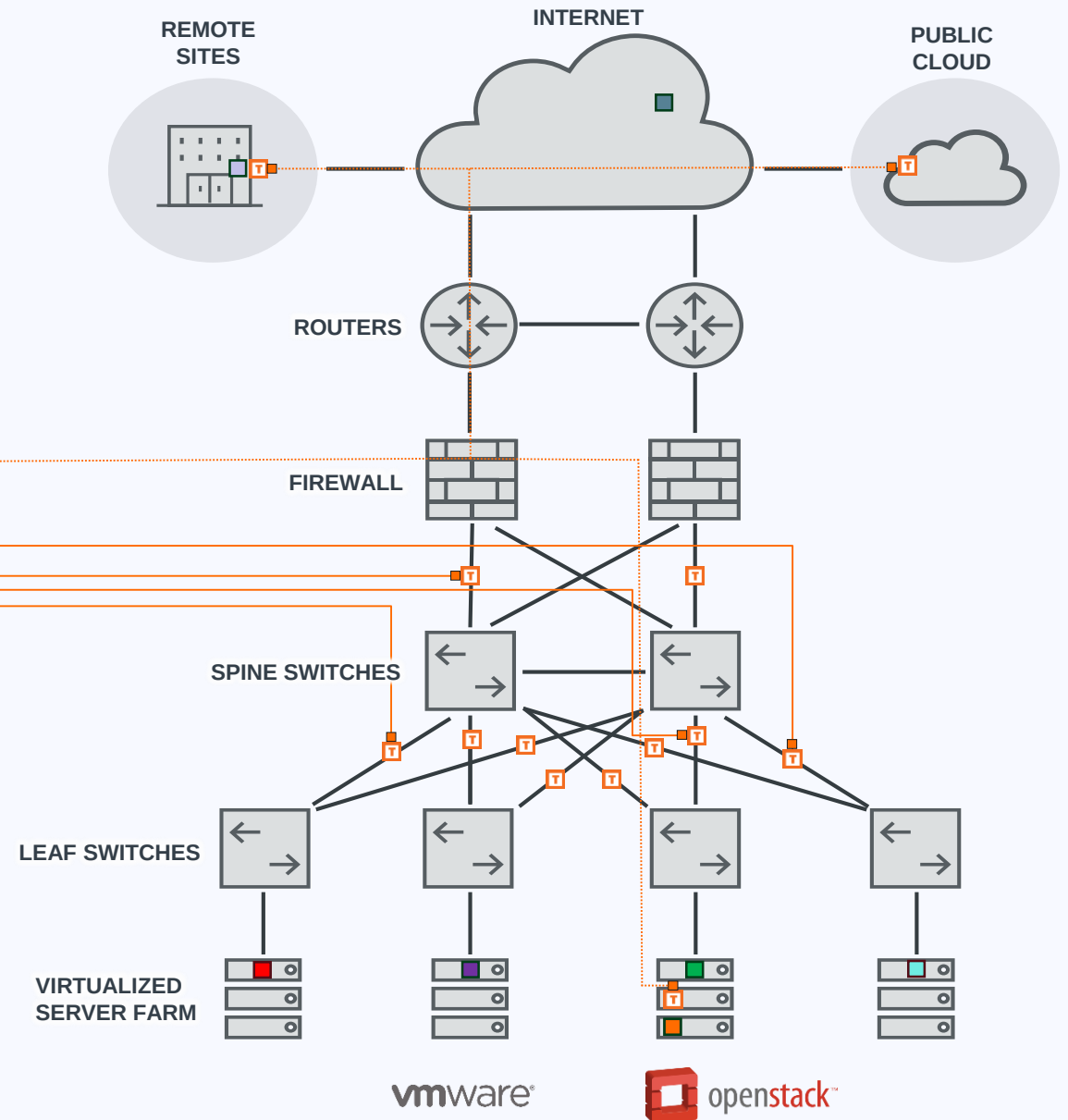
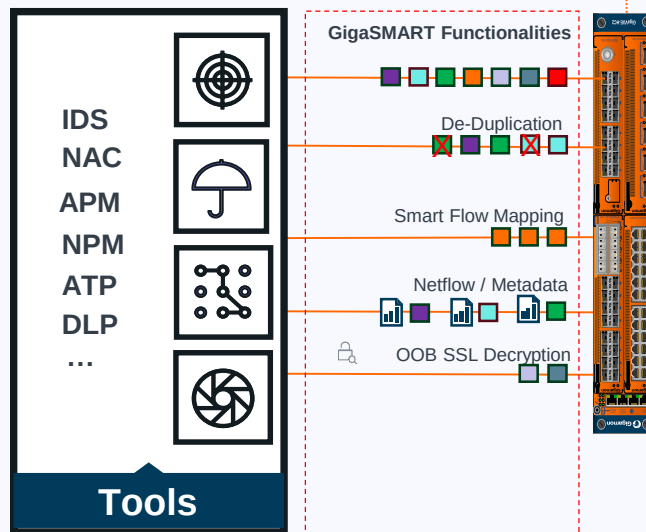
1. First Step to Visibility: Get Reliable Data Access for Tools



Next-Gen Network Packet Broker (NPB) – out of band deployment

Definition: Modular device providing a SMART traffic distribution to the passive network tools – out of band deployment

Benefit: Simplification, scalability and flexibility of the architecture, fast ROI

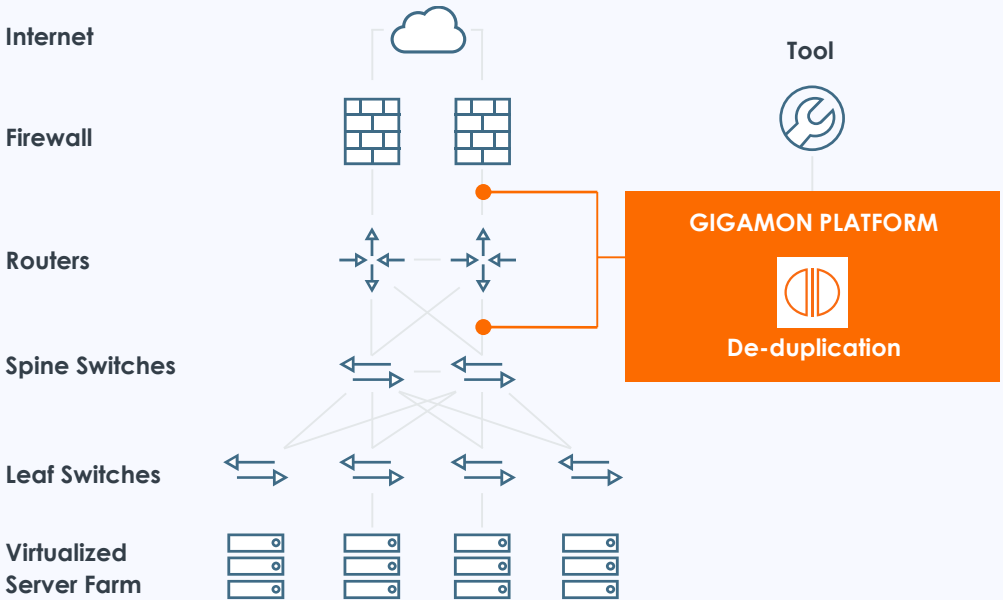
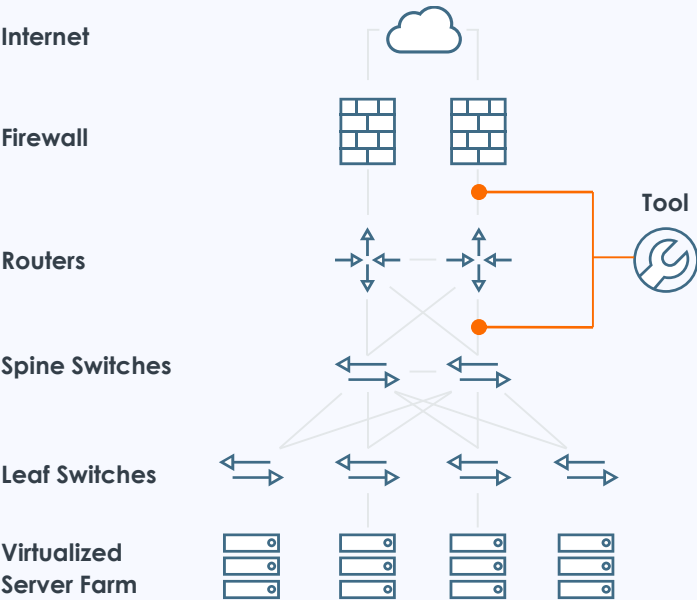




GigaSMART

De-duplication

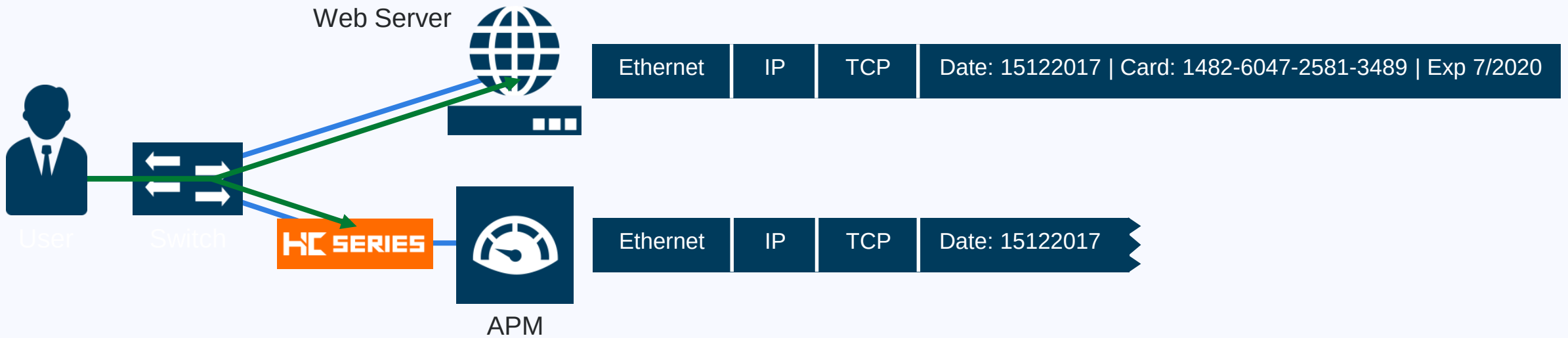
Remove duplicated traffic



Packet Slicing

Reduce Packet Size, Increase Throughput

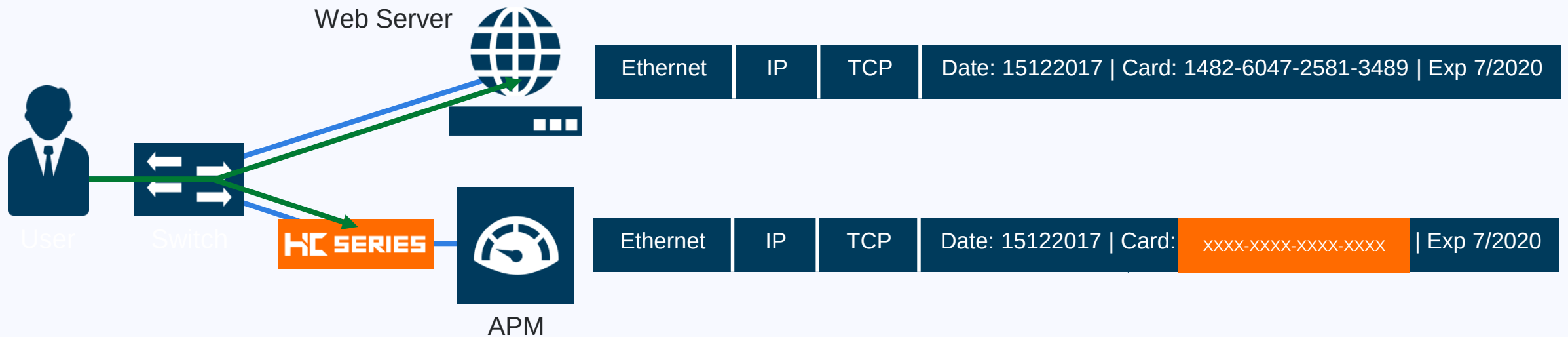
- ▶ Identify the fixed or variable offset for slicing by protocol or source
- ▶ Apply slicing rules to network traffic ingress ports



Masking

Conceal Private Data while Maintaining Full Packet

- ▶ Define the characteristics or location of sensitive traffic within certain protocols
- ▶ Select the data pattern used to overwrite portions of the packet
- ▶ Apply masking rules to network traffic ingress ports

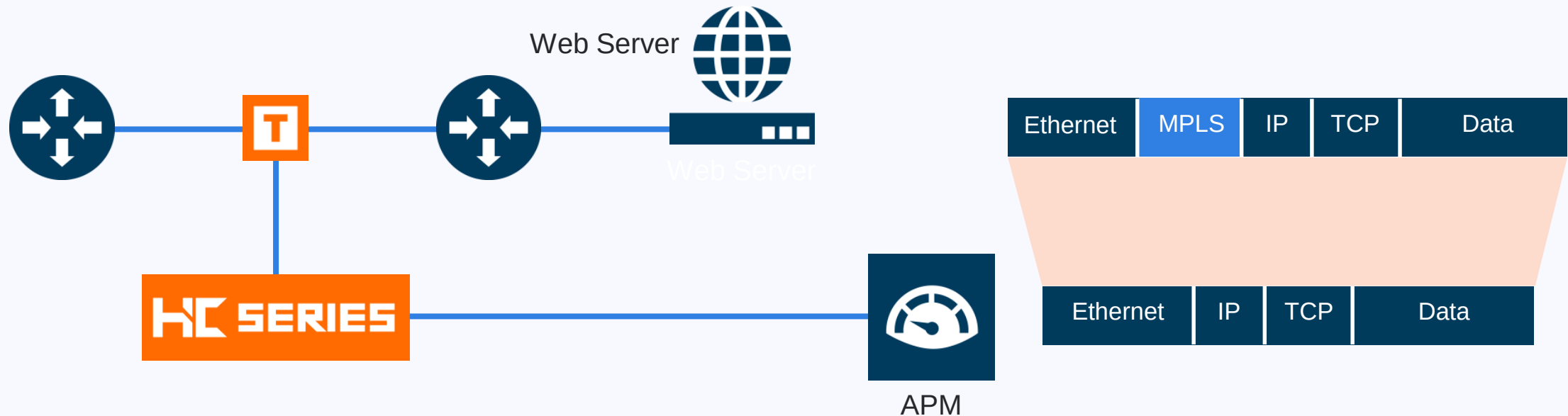


Header Stripping

Remove What the Tools Cannot Read

Supported header types:

- ▶ VLAN, MPLS, VN-Tags, VXLAN, and Cisco FabricPath
- ▶ GTP, GRE, ISL, and ERSPAN tunnels

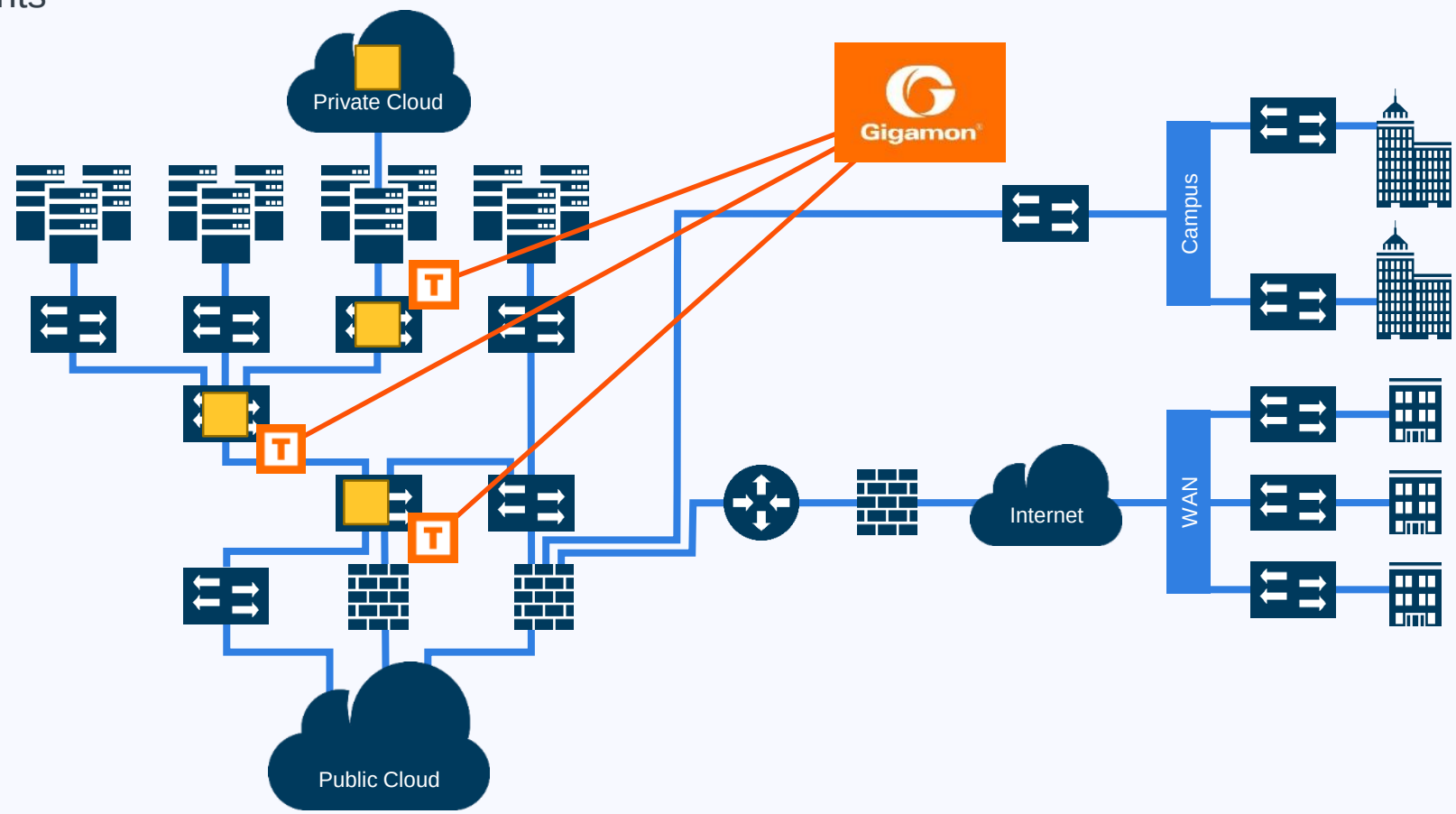


Source Port Labeling

Easily Identify the Traffic Source

- ▶ Use Source Port Labeling when aggregating multiple collection points in order to distinguish where the packet was collected

Ethernet	IP	TCP	Packet Data	From: Port 2
Ethernet	IP	TCP	Packet Data	From: Port 3
Ethernet	IP	TCP	Packet Data	From: Port 4



Gigamon Application Intelligence



Gigamon Application Intelligence

Entry network traffic **10 Gb**

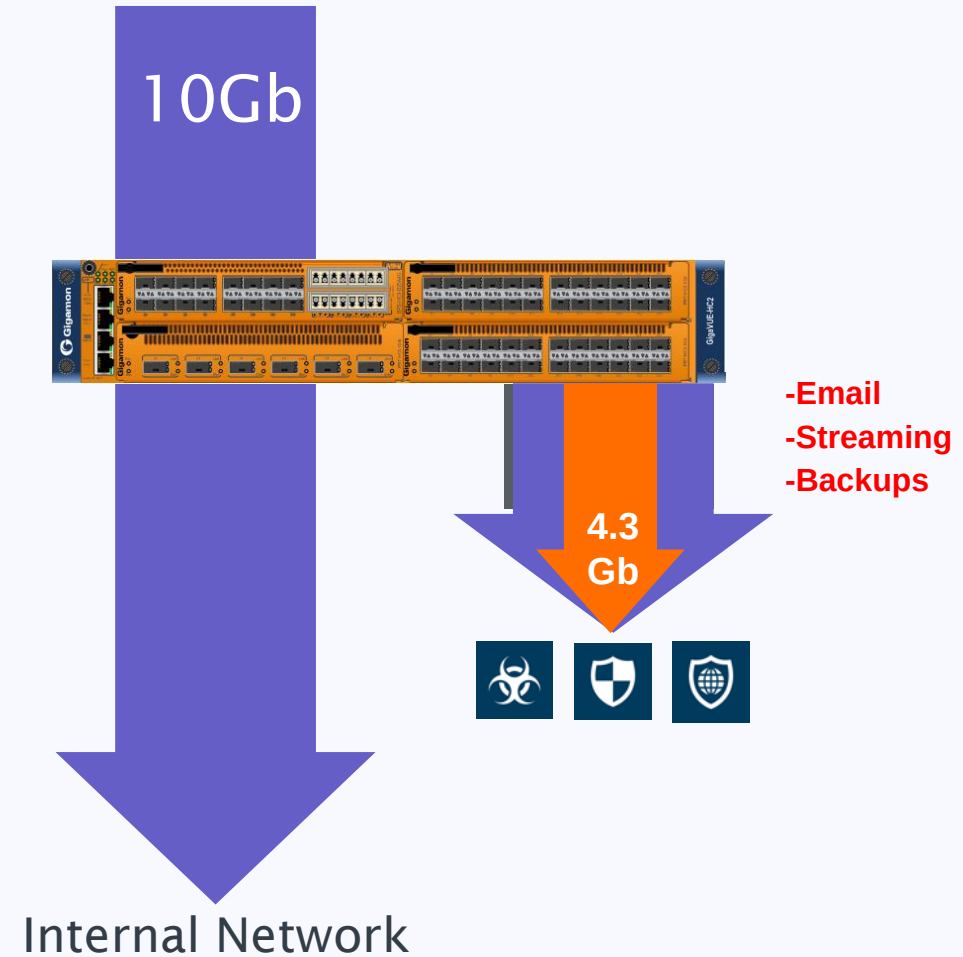
Unanalyzed Email
SMTP, IMAP - 0.5 Gb

Streaming Video
Youtube, Netflix - 3.0 Gb

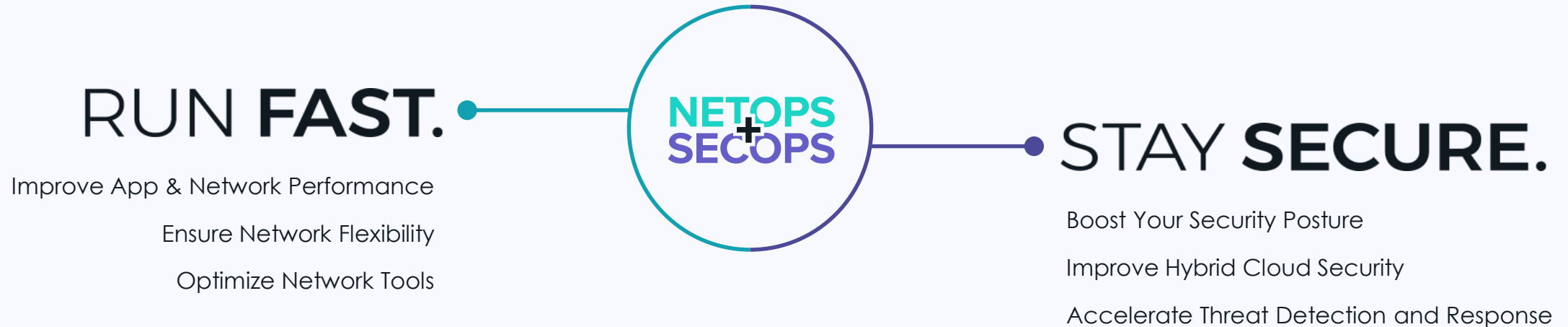
Backups and Updates
Windows, iOS, Android - 2.2 Gb

Filtered from ATD tool **5.7 Gb**

Delivered to ATD tool **4.3 Gb**



Gigamon Helps Solve for Critical NetOps and SecOps Problems

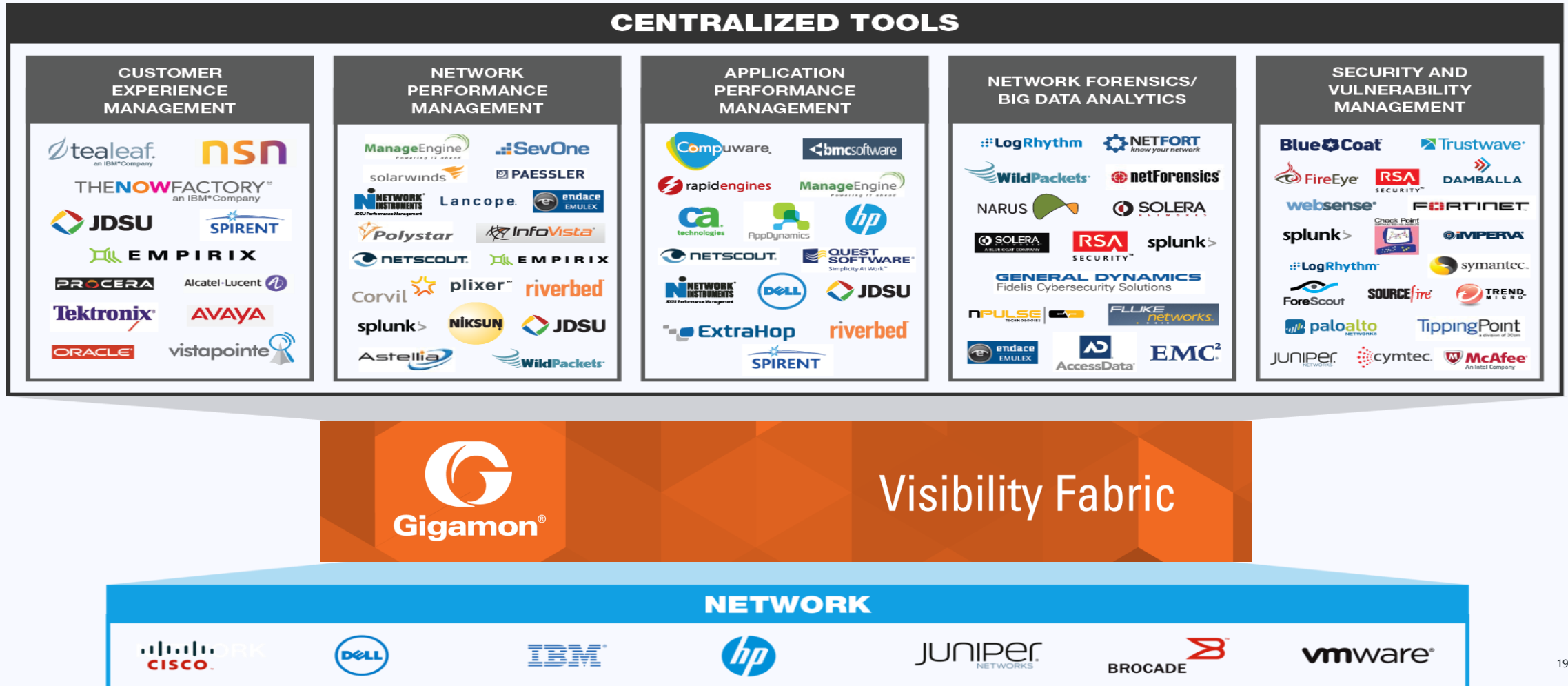


“Gigamon customers report much closer collaboration between their SecOps and NetOps teams. The flexibility of Gigamon and the ability to closely monitor dataflow and risks help IT enable businesses to succeed.



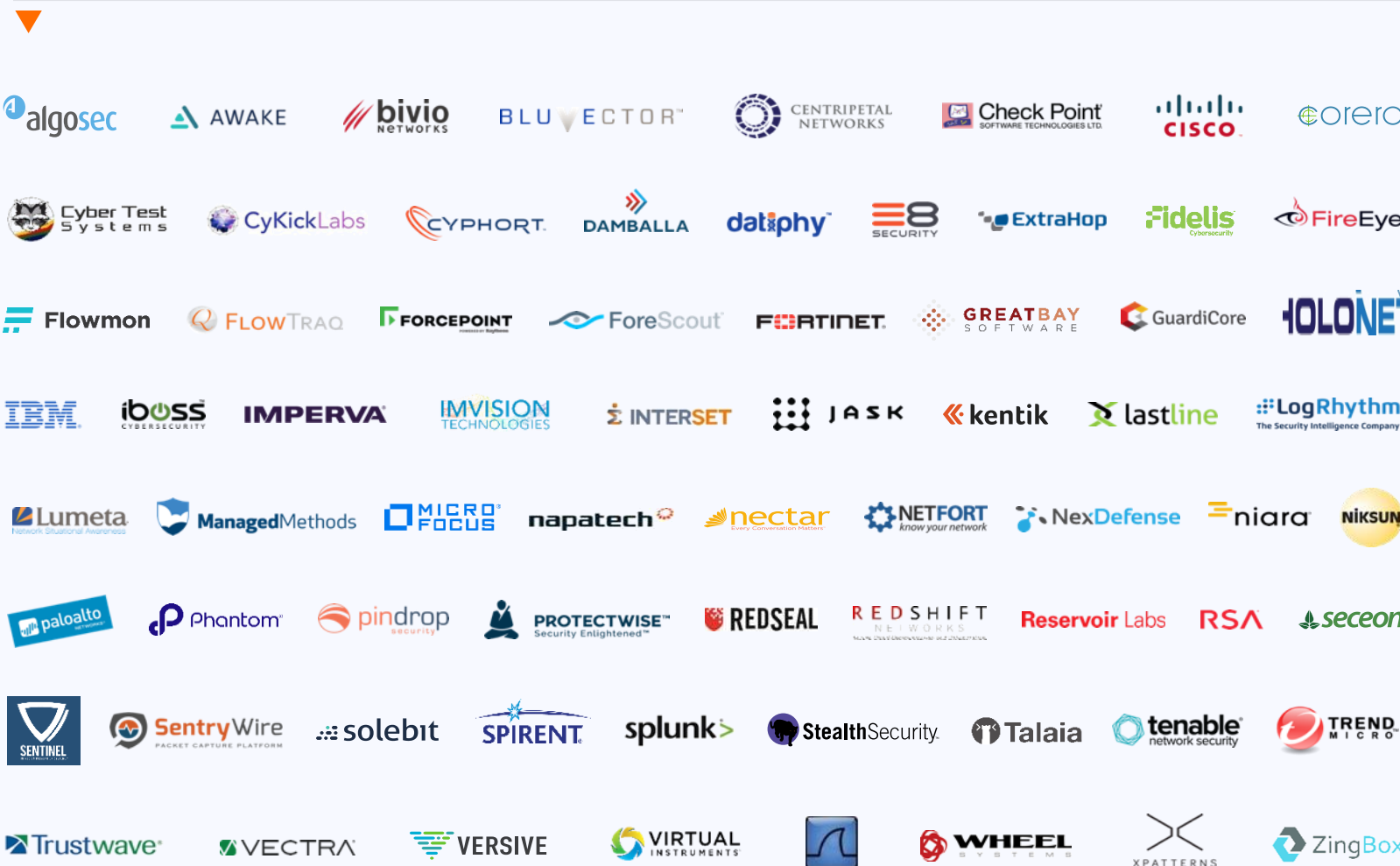
Agnostic Visibility Solution

Working with any tool and any network



Gigamon Ecosystem Partners

Security and Vulnerability Management



Service Provider



Performance Management



Infrastructure





PODPORUJEME AKTIVNÍ ZÁLOHY

JSME ZODPOVĚDNÝM A HRDÝM PARTNEREM STÁTU



- Pomáháme zajišťovat kybernetickou obranu a bezpečnost České republiky
- Podporujeme Aktivní zálohy Národního centra kybernetických operací



<https://aktivnizaloha.army.cz/>
www.vzcr.cz



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Thank You