

An aerial photograph of a long, curved bridge spanning a body of water. The bridge has multiple lanes and is supported by numerous piers. The water is dark and calm, reflecting the bridge's structure. The sky is overcast and grey.

Gigamon Introduction

Secure your ICS-OT infrastructure

Marko Rämö
Regional Sales Director, Nordics & Baltics

Vilnius 8th May, 2024

The World Runs on Gigamon



4,400+

Customers
Worldwide



4.7/5.0

Customer
Satisfaction



140

Global
Patents



83

of the
Fortune 100



7

of the
Top 10 Global Banks



10

of the Top 10 US
Federal Agencies



8

of the Top 10
Healthcare Providers

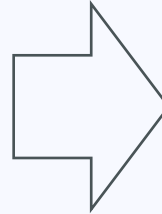
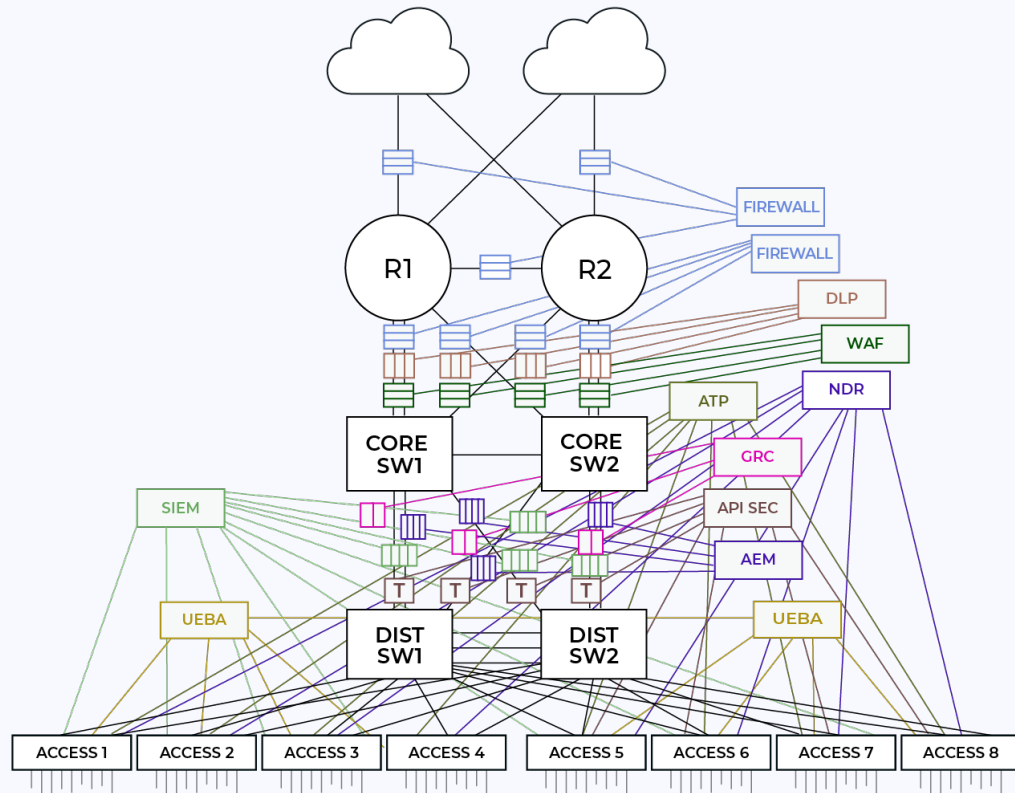


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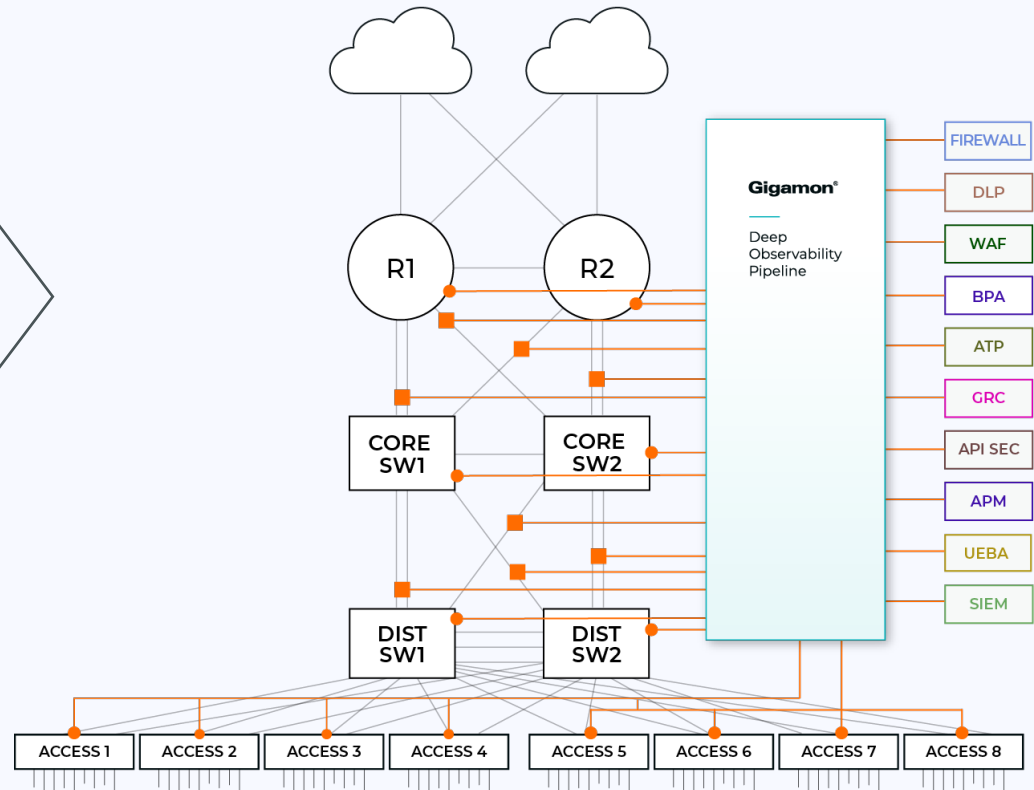
of the Top 10 Mobile
Network Operators

Gigamon innovation; Reduce complexities, provide visibility

Complexity → Blind Spots, Cost, Inflexibility



Visibility → Security, Efficiency, Agility



Customer Traffic and Cost Savings



80%
REDUCTION

—


in traffic to tools
reported by
a state and local
government entity



50-79
PERCENT
REDUCTION

—

in traffic to tools
reported by the
University of Kansas
Health System



80%
REDUCTION

—

in traffic to tools
reported by an
enterprise
telecommunications
service

WITH GIGAMON

TOTAL COST SAVINGS ⓘ

\$1,265,800

GIGAMON
ROI PAYBACK

4
Months

AVERAGE TRAFFIC
REDUCTION

50%
DEDUP

47%
APP INTEL

GIGAMON CUSTOMER FACT

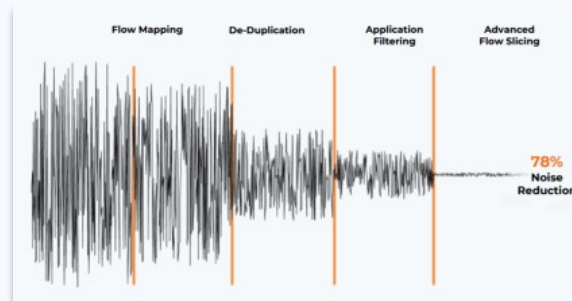
Biggest Utility Company in Malaysia
Saves Big

Tenaga Nasional Berhad confirms it
saved \$1,000,000+ using Gigamon
solutions while achieving ROI in 1 – 6
months.



Source: Azri Rahim, Sr. Manager, Tenaga Nasional Berhad
Published: Jul 23, 2020 T10: 40F-8F3-075


Gigamon® Technologies



GIGAMON CUSTOMER FACT

State & Local Gov't Saves
\$1,000,000+ with Gigamon

A state & local government says it
saw ROI with their investment in
Gigamon solutions "immediately"
and confirm they saved \$1,000,000
or more.



Source: Engineer, State & Local Government
Published: Jul 2, 2020 T10: 384-000-40F

Gigamon® Technologies

Everything is becoming interconnected: OT & IT, on-prem, hybrid cloud



Key Pipeline Benefits

1. Single access: Physical, virtual, containerized traffic
2. Unmatched insights: Intelligence extraction
3. Single source of truth: Security, performance, and intelligence
4. Cost Savings: Massive signal-to-noise improvement of data to tools

Visibility into containers, East – West Lateral movement

GigaVUE Cloud Suite for Kubernetes

Deep Observability into Containerized Applications

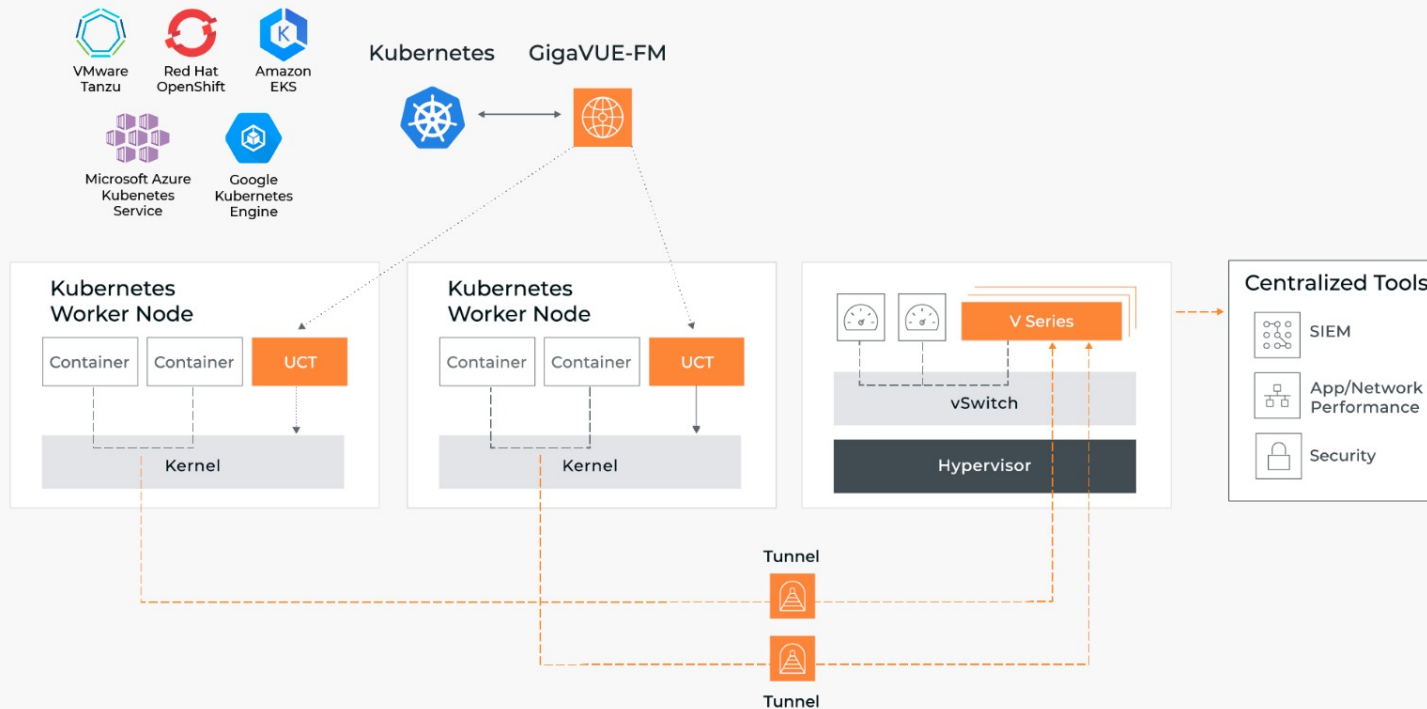
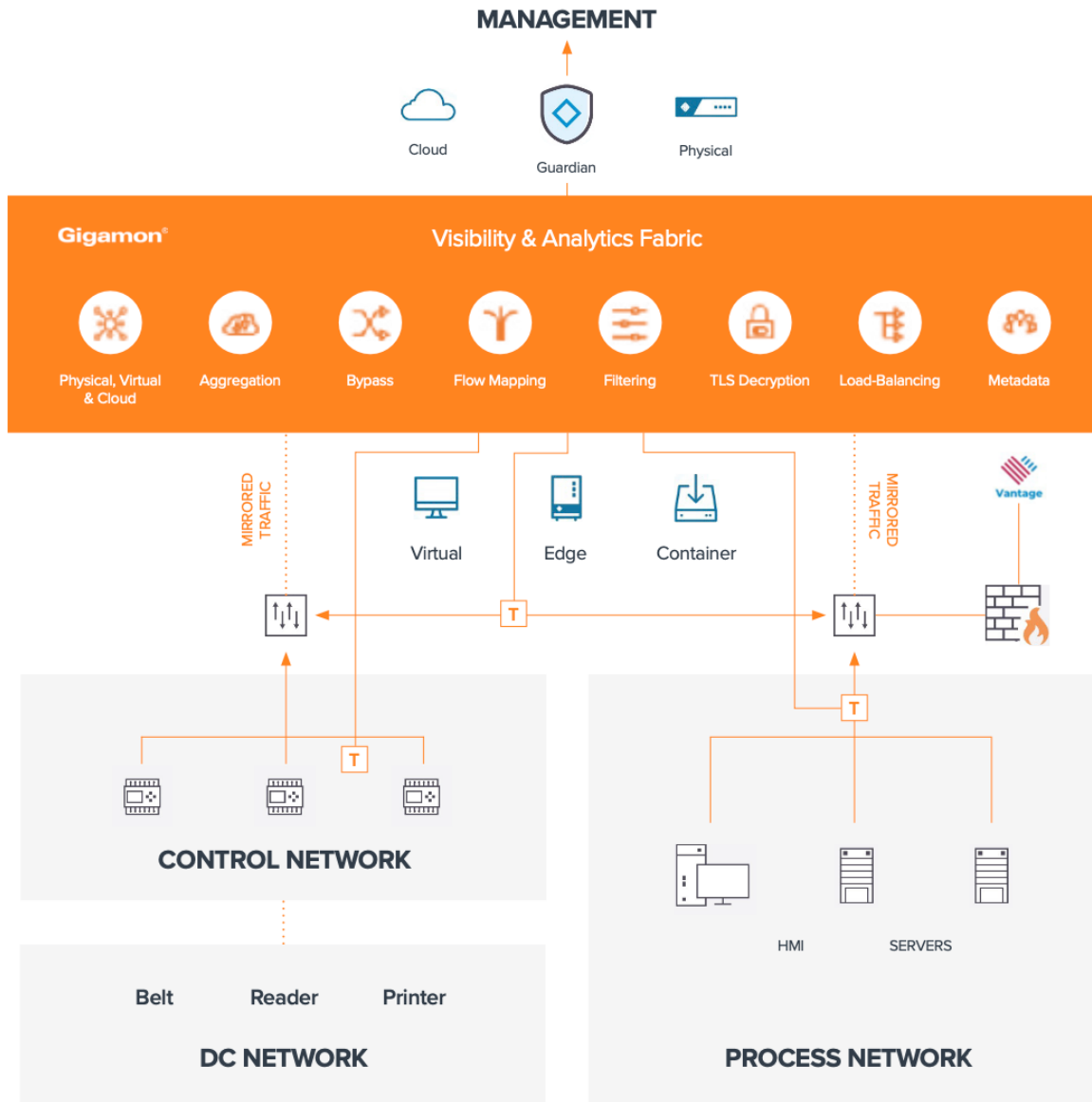


Figure 1. GigaVUE Cloud Suite for Kubernetes, consisting of GigaVUE V Series, GigaVUE-FM fabric manager and Universal Container TAPs (UCT), gives tools deep observability into Docker containerized applications.

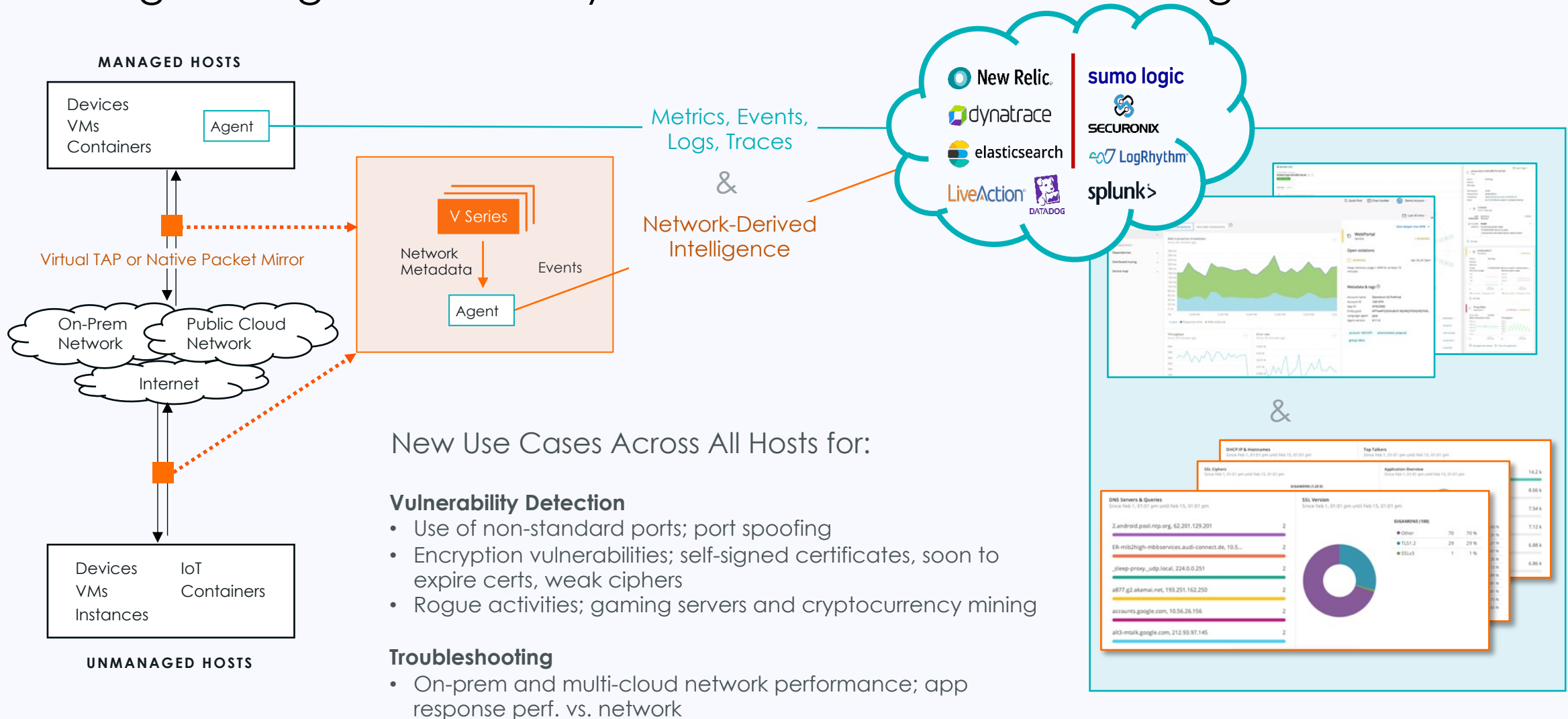
NOZOMI NETWORKS DEPLOYMENT WITH GIGAMON



PROTECT YOUR OT WITH GIGAMON AND NOZOMI NETWORKS

- The Gigamon optional unidirectional taps ensure that OT product traffic is not negatively impacted
- No matter where your device traffic is coming from, including wireless sources for remote devices, Gigamon ensures no blind spots across your network. This even includes visibility into identity and access management activity to further ensure fundamental security
- Availability is mandatory for OT production networks. The Gigamon active/passive taps and inline bypass provide fail-open capability to ensure constant availability, including when maintenance may be required on security tools
- Gigamon sits between the OT business network, manufacturing, process network and tools, such as Nozomi Networks, to provide visibility regardless of medium (physical, virtual, cloud) and including east- west traffic.

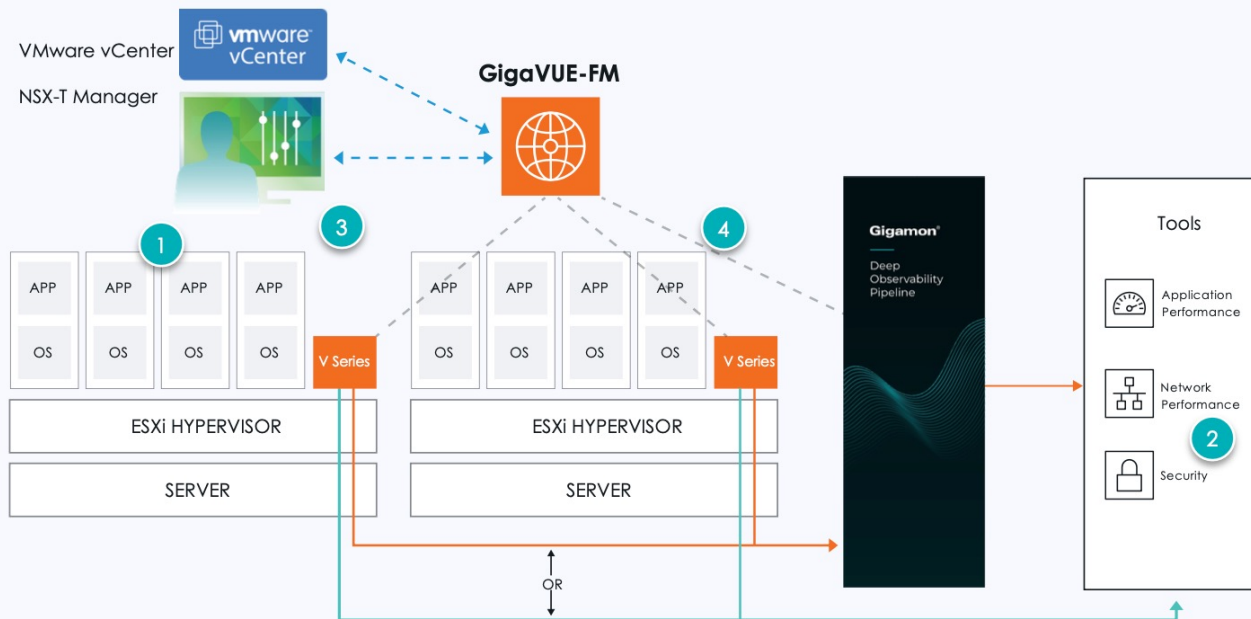
Strengthening Observability and SIEM with Network Intelligence



Private & Public Cloud Visibility

Private Cloud Visibility Benefits

Nutanix, OpenStack (Red Hat), and VMware (ESXi, NSX-t)



1. Eliminate All Blind Spots

- Access all traffic on each host, down to each VM,

2. Improve Security Posture

- Ensure security tools see all appropriate traffic at packet or metadata level

3. Optimize Costs

- Flow mapping and GigaSMART help remove irrelevant traffic

4. Streamline Operations

- Auto-discover hosts and send traffic to tools using "Automatic Target Selection"
- Minimize manual efforts and errors through automation.

Integrate Gigamon Into Your Ecosystem Opportunities

Optimize over 130 tools across your partners hybrid environments



Customer Case Study: Large Australian Electrical Utility

Large Electrical Utility Sees
\$1M in Savings, Plus an
80 Percent Reduction in
Traffic to Tools



CHALLENGES

- + Tools overwhelmed with too much traffic
- + Need to extend the life of older tools
- + Too much tool sprawl
- + Issues with SSL decryption
- + Difficult to troubleshoot network data

CUSTOMER BENEFITS

- + Saved between \$500,000 and \$1M
- + Reduced traffic to tools by 80 percent
- + Experienced full ROI payback within 6 to 12 months
- + Optimized tool utilization and decreased tool sprawl
- + Maximized network visibility and performance monitoring

Customer Case Study: Land Bank Philippines

Case Study

Full Visibility Finally Possible for the Land Bank of the Philippines



Challenges

- Troubleshooting network data
- Eliminating blind spots in encrypted traffic
- Gaining a single source of visibility across physical, virtual, and cloud environments

Customer Benefits

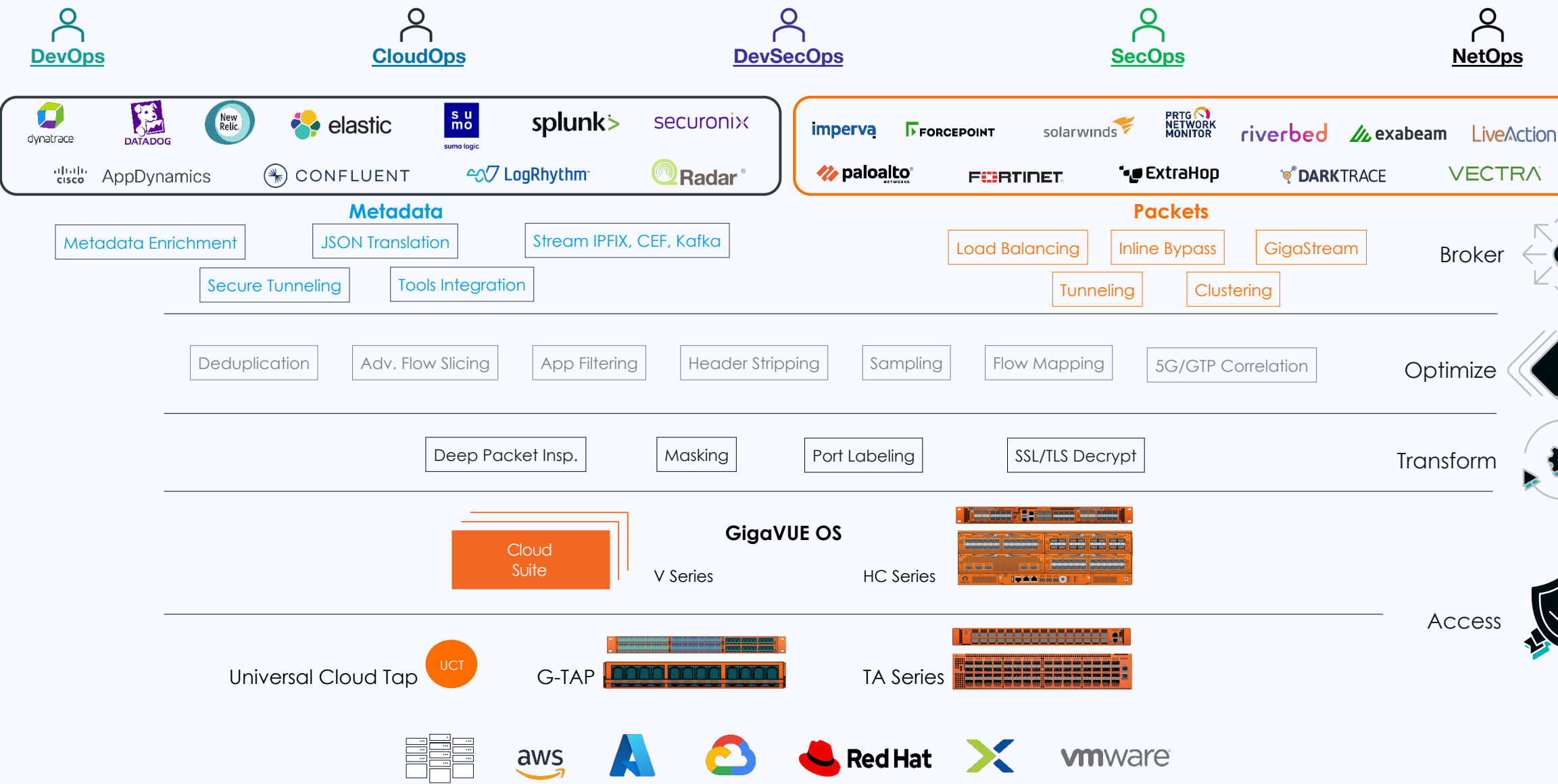
- Achieved tremendous CapEx ROI
- Reduced traffic to tools by 80 percent
- Improved network and security monitoring
- Experienced full ROI payback within 6 to 12 months
- Maximized network visibility
- Accelerated threat prevention, detection and response time
- Decreased tool sprawl and costs



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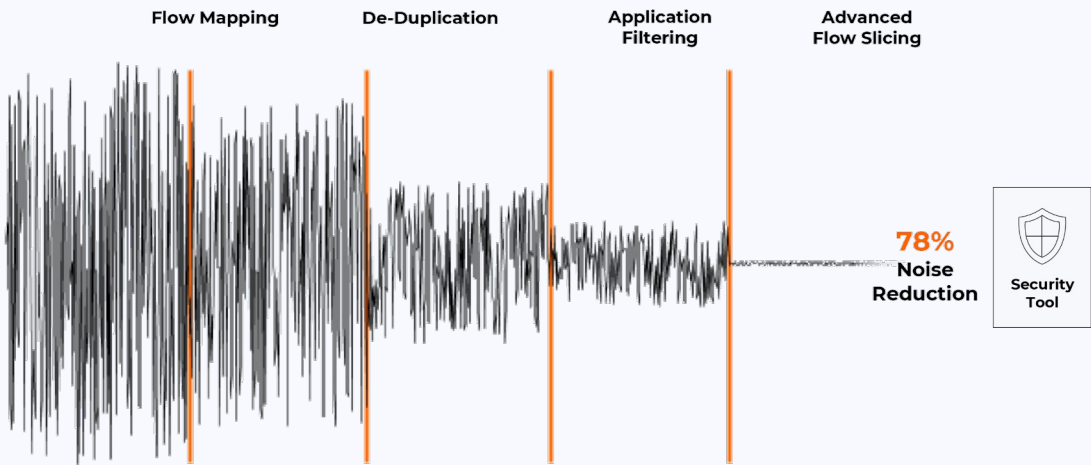
Gigamon Architecture

Bridging Teams, Tools and Telemetry



How Gigamon Improves Efficiency of Monitoring Tools

	TRAFFIC REDUCTION	TOOLS HELPED
1. DE-DUPLICATION <ul style="list-style-type: none">Duplicate packets represent more than 50% of network trafficGigamon removes the need for existing tools to process duplicate packets – increasing performance and freeing up tool capacity.	50%	<ul style="list-style-type: none">IDSNPMAPMDLPForensicsNDR
2. APPLICATION FILTERING <ul style="list-style-type: none">Gigamon gives you the power to direct specific application flows to only the tools that need to see them.By removing irrelevant or low-risk application traffic such as video streams, antivirus pushes, and Windows updates, you'll increase tool efficiency and effectiveness.	50%	<ul style="list-style-type: none">IDSNPMAPMDLPForensicsNDR
3. FLOW MAPPING <ul style="list-style-type: none">Gigamon allows mapping of specific traffic flows, from specific TCP ports, while filtering out the restGigamon customers have seen 20–30 percent traffic reduction to their tools after applying Flow Mapping.	25%	<ul style="list-style-type: none">IDSNPMAPMDLPForensicsNDR
4. ADVANCED FLOW SLICING <ul style="list-style-type: none">Gigamon eliminates bandwidth issues and processing burden by slicing payloads and packets from long data flows.You can decide to forward just the first set of packets in the flow, then slice or drop the rest — reducing traffic by up to 60 percent.	90%	<ul style="list-style-type: none">IDSNPMAPMDLPForensicsNDR



Through our patented traffic-reduction capabilities, such as Flow Mapping®, De-Duplication, Advanced Flow Slicing, and Application Filtering Intelligence, Gigamon can dramatically streamline traffic going to tools without compromising data fidelity.

The background features a dark, textured surface with a pattern of light-colored dots. These dots are arranged in a way that suggests a hand reaching out from the left side of the frame, with the fingers spread. The dots are more densely packed in some areas, creating a sense of depth and movement.

How Gigamon Deep Observability Pipeline is Deployed in Zero Trust Architecture

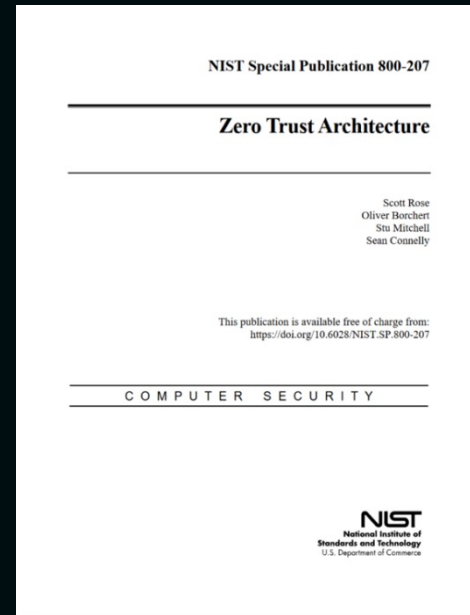
Evolving Approaches to Zero Trust

12 Years and Counting

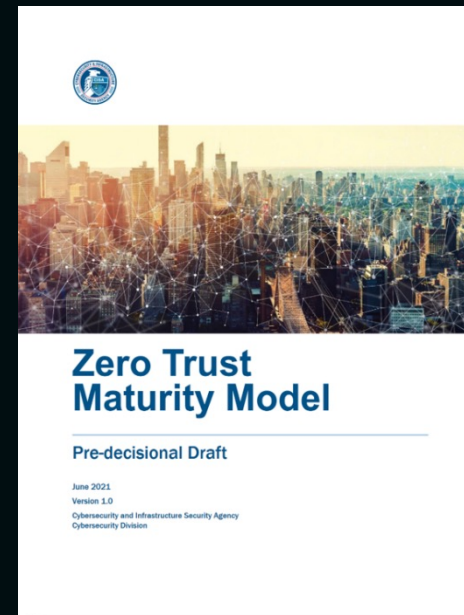
Original Kindervag
Paper (2010)



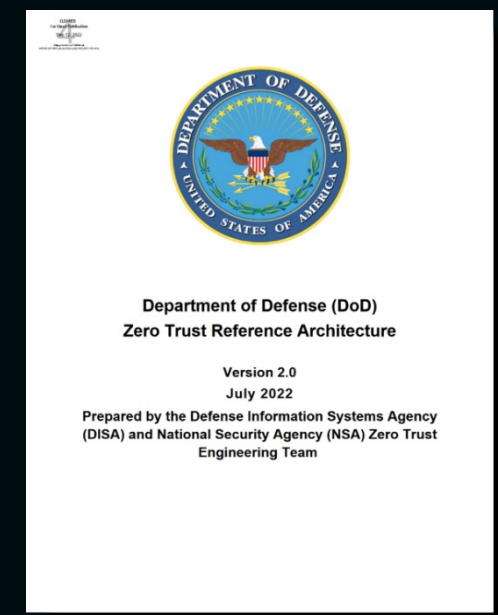
NIST SP 800-207 (2020)



CISA ZT Maturity Model
(2021)

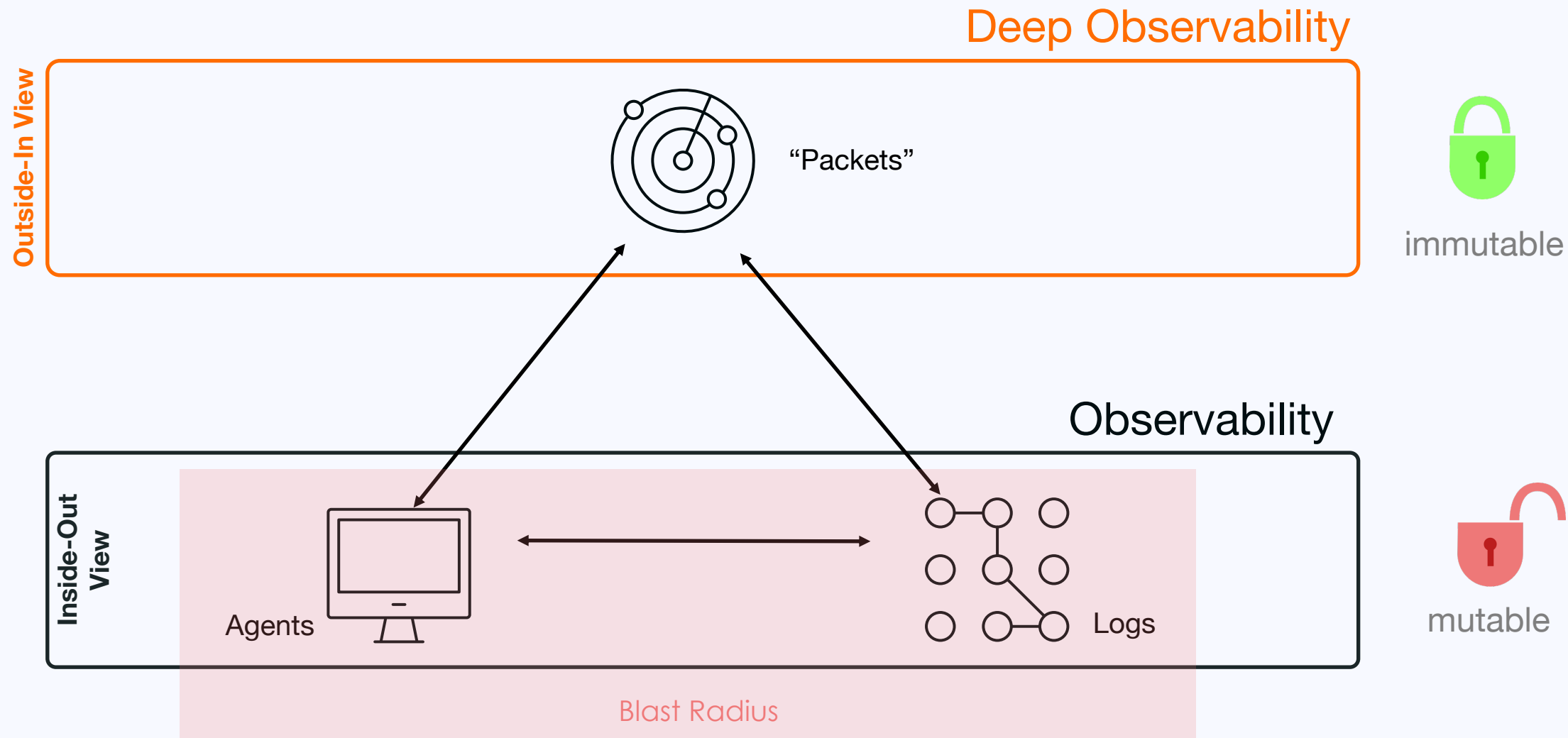


DoD ZTA Reference
Architecture v2.0 (2022)



What is Deep Observability?

Recommendation: Logging + Agent + Deep Observability



Network Visibility is Already in the Standards

“The enterprise can **observe all network traffic**. The enterprise records packets seen on the data plane, even if it is not be [sic] able to perform application layer inspection (i.e., OSI layer 7) on all packets. The **enterprise filters out metadata about the connection** (e.g., destination, time, device identity) to dynamically update policies and inform the PE as it evaluates access requests.”

Deep Observability Makes Threat Detection More Powerful

Shining a Light on Threats

- + AI/ML approaches to anomaly detection are very important
 - Detecting anomalies is much easier if data from multiple environments all looks the same (does not need normalization)
 - Processed into metadata by Gigamon's [GigaSMART Application Metadata Intelligence](#), AI/ML detection of threats is massively accelerated AI/ML algorithms
- + It is much harder for an attacker to avoid detection with deep observability present
- + Deep Observability gives you the ability to selectively decrypt SSL/TLS with [Gigamon's Inline SSL Decryption](#)
- + Supply chain attacks and highly sophisticated threats like implants are invisible to logging and EDR, but will be seen by Deep Observability



Visibility into containers, East – West Lateral movement

GigaVUE Cloud Suite for Kubernetes

Deep Observability into Containerized Applications

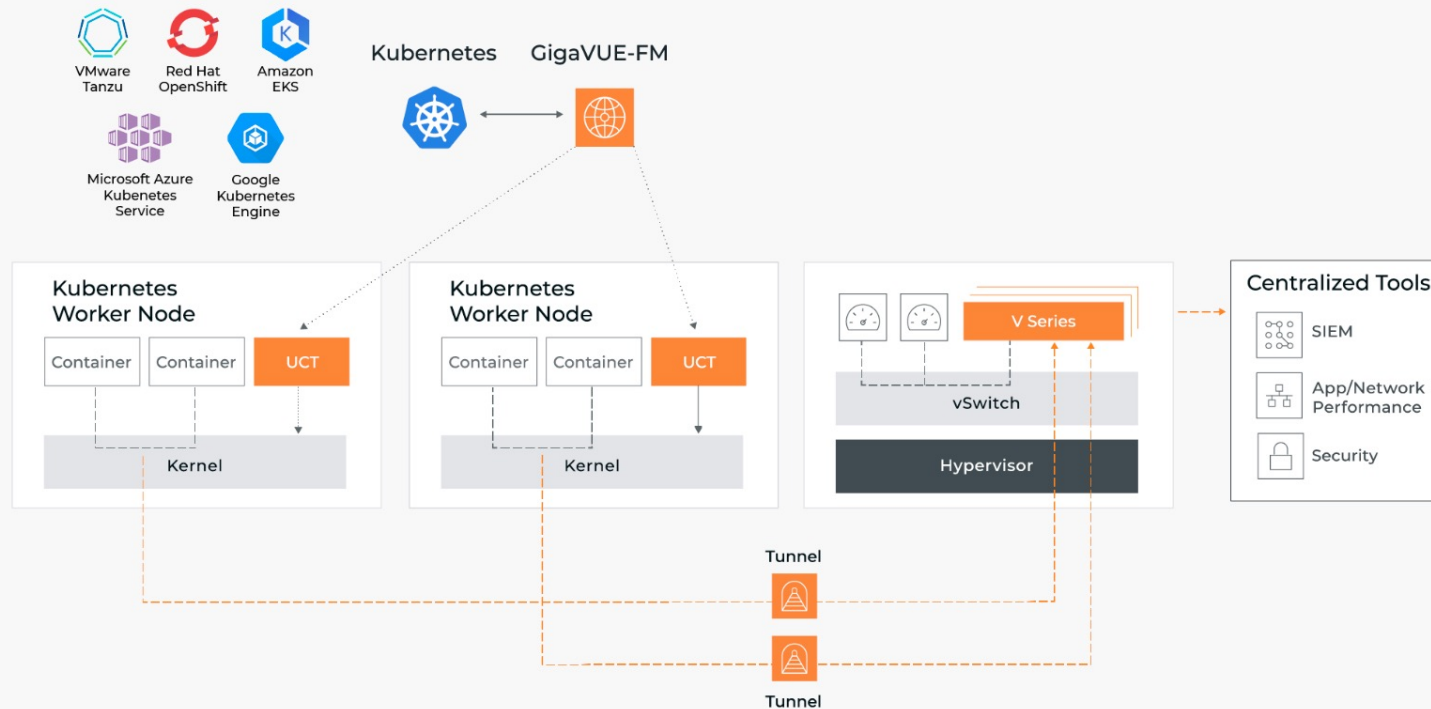


Figure 1. GigaVUE Cloud Suite for Kubernetes, consisting of GigaVUE V Series, GigaVUE-FM fabric manager and Universal Container TAPs (UCT), gives tools deep observability into Docker containerized applications.

Deep Observability Simplifies Zero Trust

- + Network traffic is common across all environments:
 - Multi-public cloud
 - Private clouds
 - On-prem
- + Supports devices which cannot run EDR (or even do logging):
 - Legacy compute (mainframes)
 - IoT/OT/ICS/SCADA etc.
 - BYOD
- + How can you collect network traffic from all of these locations: **Gigamon**



Customer Case Study: US Department of Defense

Gigamon Adds Crucial Network Visibility to Zero Trust at the Department of Defense



CHALLENGES

- + Zero Trust initiative lacked visibility across the entire network
- + Vulnerable to lateral movement
- + Privilege escalation from adversaries

CUSTOMER BENEFITS

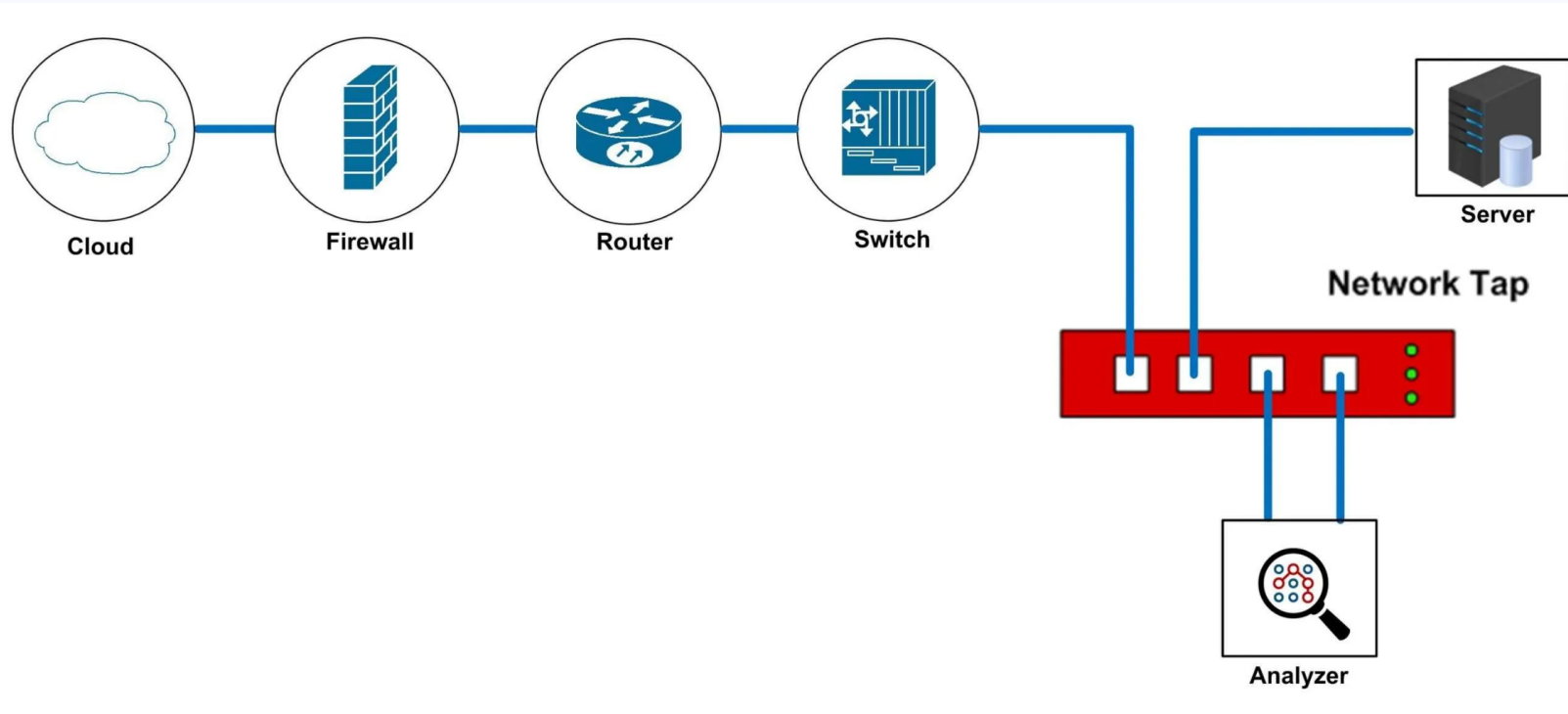
- + Brought full visibility across on-premises, virtual, and cloud networks
- + Reduced noise to allow for deeper analysis
- + Enabled intricate packet inspection to get to the root of issues
- + Integrated tasks to boost overall efficiency

Gigamon®

Q&A

Network TAP Description

A network TAP (short for Test Access Point) is a hardware device that is placed on a network segment, allowing you to access and monitor network traffic. Network taps allow traffic to flow without interruption or interference. As long as they are connected, a network taps will create an exact copy of both sides of traffic on the network. All monitoring and analysis tools that are connected to the tap will receive exact copies of the network traffic.



Gigamon®

The Gigamon logo consists of the word "Gigamon" in a bold, white, sans-serif font, followed by a registered trademark symbol (®). Below the text is a short, horizontal orange line.

Thank you

Marko Rämö
Regional Sales Director
Nordics & Baltics

Marko.ramo@gigamon.com

+46 730 45 06 56