

# Gigamon and vArmour Enable Continuous Application Relationship Management to Protect Cloud-Connected Enterprises



## The Challenge

To effectively secure their assets, Information Security teams need to have complete visibility over the physical, virtual, and cloud environments of the enterprise. Considering the potential connectivity of any individual service – whether it is web services or fully outsourced application stacks – understanding application relationships is vital to effectively enable security in the modern enterprise.

## The Solution

Gigamon provides visibility across the network encompassing users, apps, containers, smart IoT devices and Operational Technology (OT) sensors. vArmour Application Controller leverages this visibility to understand application relationships and extends further infrastructure support to private, hybrid, or multiple public cloud deployments with Continuous Application Relationship Management.

The vArmour partnership with Gigamon brings rich new telemetry and insights into the vArmour Security Graph, enriching the reach of application visibility and control of applications across the Enterprise.

## Joint Solution Benefits

- Centralized interface to visualize, configure, direct and control traffic from any network.
- Contextualized visibility of an application across and within the connected enterprise unlocks the ROI of existing IT and Information Security investments.
- Multi-level telemetry processing to build a holistic picture of application risk exposure and compliance scope.
- Bi-directional information to gain context of the wider environment – metadata and application relationships to enable consistent policy enforcement.
- Support frictionless enablement and automation to reduce operational and integration risks.

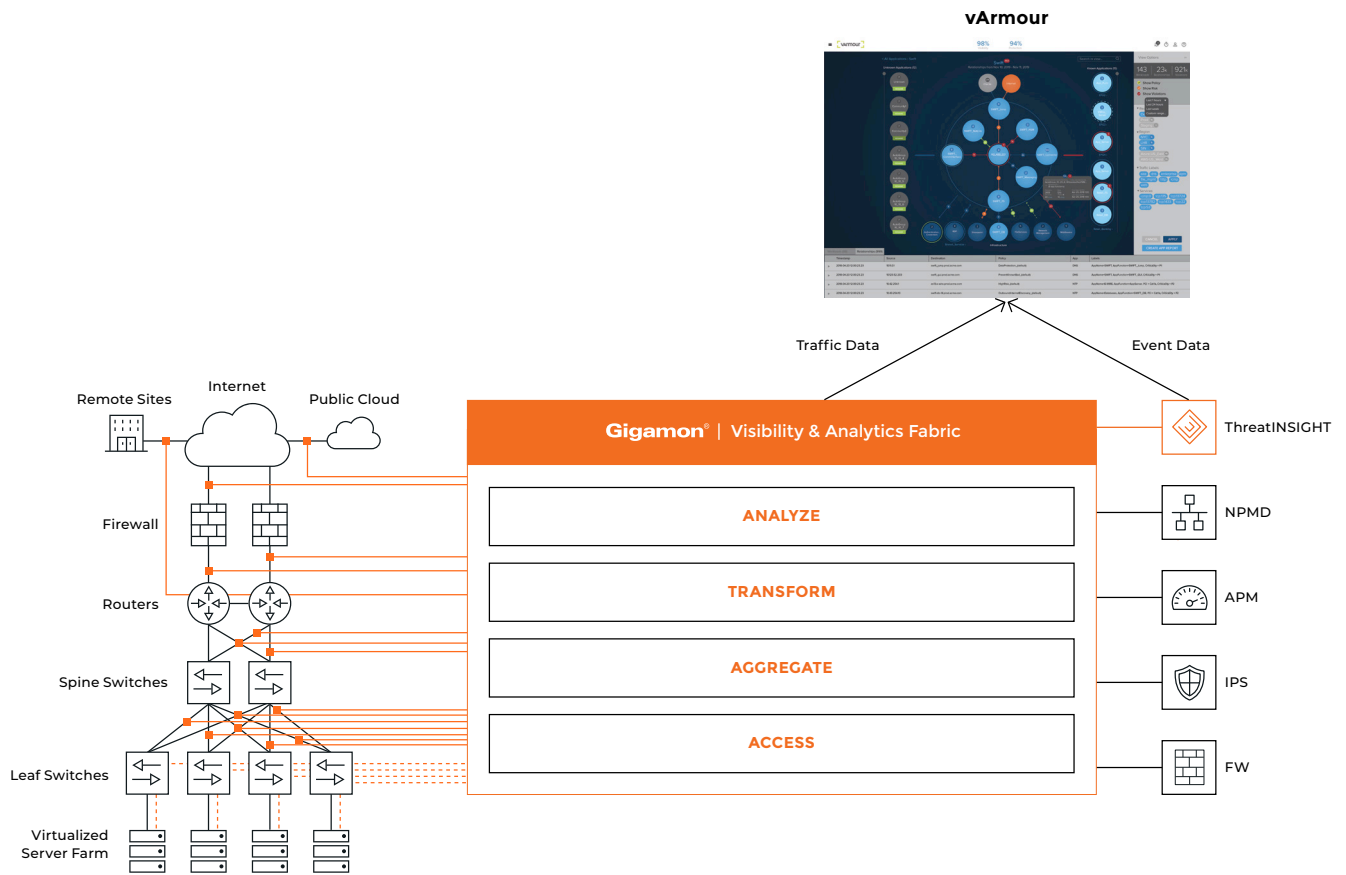
## Introduction

In order to understand and secure applications, particularly during cloud migration, security teams must be able to visualize and control what is happening within their environments. They must also be able to understand how applications are behaving, otherwise teams cannot respond to attacks quickly and effectively due to lack of visibility and context. For organizations implementing a ZeroTrust security model, both Operations and Information Security teams require consistent system and network visibility; and, consistent enforcement of controls across both on-premise and cloud environments.

## The Gigamon and vArmour Joint Solution

Deployed as a combined solution, vArmour and Gigamon enable both Operations and Information Security teams to operate, detect and respond, and optimize their application environments for minimized risk. vArmour easily integrates with and leverages the Gigamon platform without requiring the deployment of any endpoint agents.

- With Gigamon Visibility and Analytics Fabric (VAF) and vArmour Application Controller, Cloud Operations and Information Security teams are able to visualize critical application relationships within any network, depicting communication and data behaviors. Providing an operational and security context, those teams are able to take action – modifying network policies or hardening specific systems from attack. Moreover, providing visibility into application dataflows – literally seeing the number of connections and data volumes passing between all services and systems within the application – access, data processing, and storage requirements can be assessed for both performance and security. Finally, having an application context overlaid on a network topology enables DevOps to proactively address performance or overhead bottlenecks.
- Gigamon ThreatINSIGHT and vArmour Application Controller enables contextualization of critical applications to enable a ZeroTrust security model. Provided with that context, Security and/or Network Operations team response times can be reduced – fine tuning notifications based on relevant application indicators – whether for security or performance. With this combined solution, enabling consistent delivery of clear, concise and accurate application allows for rapid detection of potential cyberattacks.
- Finally, the combined Gigamon and vArmour approach effectively ensures compliance with all regulatory or certification requirements through security monitoring and consistent access control of all ‘in-scope’ systems.



## Example Use Cases

There are several use cases for gaining complete visibility and control into your environments with the Gigamon and vArmour joint solution:

### Application-aware visibility across the estate

Provides clear visibility into application relationships and network behavior between connected environments, without the use of agents and across multiple cloud environments.

### Application Discovery with Telemetry

Provides multi-level telemetry using Application Controller – building a holistic picture of application connectivity, server/workload configurations, and communication patterns within non-Gigamon monitored environments.

### Application Intelligence

Provides both the ability to track application traffic, flag shadow IT activities and rogue apps on the network, and to re-route application traffic through appropriate security channels and tools. Enables both Operations and Information Security to secure applications without compromising the user experience.

### Accelerated Detection and Response

Visualization enables pinpoint detection of lateral movement, malware propagation, command & control (C2) communications, and/or suspicious shadow IT activity for a faster time to respond – either through attack forensics, or immediate isolation or containment of threats.

### Adhere to Regulatory Standards

Provides the means to map application and network scope for regulated or certified operating environments. Secondly, this visibility enables the definition and enforcement of access control, security and performance monitoring, and endpoint security controls within a cloud connected network. Also allows compliance with privacy laws by selective policies to not decrypt certain flows or to mask out specific data.

### Ease of Deployment and Easy Scalability

Provides coverage and scalability for even the most disparate networks, collecting environmental data and enforcing environmental policies without the use of agents.

## About Gigamon

Gigamon is the first company to deliver complete network visibility and analytics on all information-in-motion, from raw packets to apps, across physical, virtual and cloud infrastructure. We aggregate, transform and analyze network traffic to solve for critical performance and security needs, including rapid threat detection and response, freeing your organization to drive digital innovation. Gigamon has been awarded over 75 technology patents and enjoys industry-leading customer satisfaction with more than 3,000 organizations, including over 80 percent of the Fortune 100. Headquartered in Silicon Valley, Gigamon operates globally. For the full story on how Gigamon can help you to run fast, stay secure and innovate, please visit [www.gigamon.com](http://www.gigamon.com).

## About vArmour

vArmour is the leader in application relationship visualization and control. Hundreds of companies worldwide rely on the vArmour Application Controller to visualize and consistently apply application security controls across hybrid and multi cloud environments. Doing so, vArmour Customers reduce their attack surface and enable continuous compliance capabilities. Based in Los Altos, CA, the company was founded in 2011 and is backed by top investors including Highland Capital Partners, AllegisCyber, Redline Capital, Citi Ventures, and Telstra. Learn more at [www.varmour.com](http://www.varmour.com).

For more information on Gigamon and vArmour, visit: [www.gigamon.com](http://www.gigamon.com) and [www.varmour.com](http://www.varmour.com)

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