The Challenge
To secure today’s networks, you need to apply the latest technologies and security intelligence to all traffic flowing over the network. This is no easy task as networks expand in geographic reach and capacity as fast as the security technology available.

Integrated Solution
The Gigamon GigaSECURE® Security Delivery Platform and Cisco Firepower offer a combined solution that meets today’s active inline security needs. Cisco helps ensure market leading security technology and intelligence are available while Gigamon provides efficient and resilient access to the traffic it needs to protect. Security teams can rely on the joint solution to protect their environment while network operation teams are confident that network operations and the business they support are uninterrupted and well managed.

Joint Solution Benefits
• Provides pervasive Next-Gen Firewall protection including Application Visibility and Control (AVC), Next-Gen IPS (NGIPS), Advanced Malware Protection (AMP) and URL Filtering.
• Physical, virtual and cloud visibility helps ensure any network traffic can be inspected.
• Aggregation, load balancing and advanced filtering help maximize the efficiency of the deployed Firepower devices. Network upgrades don’t require tool upgrades.
• Separate network speed from tool capacity and speed.
• Inline bypass helps ensure resilience and operational ability to move devices in and out of inline mode for downtime, upgrades, increased capacity and more.
• Inline SSL solution helps ensure even encrypted traffic can be inspected.

Introduction
There is little argument that, while defending your network perimeter reduces the risk of infiltration and potential breach, it is rarely a sufficient security policy by itself. Inspecting traffic flowing within each segment of your network is virtually essential if you are to spot and stop nefarious activity. While there is a large and growing number of technologies that can be used for these purposes, deploying them in a way that is both effective and efficient requires the right approach.

The Gigamon and Cisco Joint Solution
The Cisco Firepower System is an integrated suite of network security and traffic management products, deployed either on purpose-built platforms or as a software solution. It delivers comprehensive, unified policy management of firewall functions, application control, threat prevention, and advanced malware protection from the network to the endpoint. Together the Gigamon GigaSECURE Security Delivery Platform and Cisco Firepower offer a combined solution that efficiently meets today’s active inline security needs.

Key Benefits of the Joint Solution
Operational Efficiency
• Gigamon load balancing and aggregation features help ensure each Firepower port can be fully utilized regardless of network utilization and speed. Network upgrades don’t require tool upgrades.
• Inline bypass and load balancing allow users to add, remove and/or upgrade devices without interrupting production traffic. Moving devices from monitor only to full inline can be done at the touch of a button, without network downtime.
• Pervasive visibility helps ensure traffic from anywhere in the physical or virtual network can be delivered to and analysed by your Firepower deployment.
• Advanced filtering options and deduplication helps ensure only relevant sessions or IP packets are processed by your Firepower devices.

Resilience: With Integral Physical and Logical Bypass Protection
• Inline bypass provides integrated physical and logical protection against device failure or the need to remove devices from service for maintenance, upgrades and more. Advanced heart beat monitoring helps ensure traffic is routed around unavailable devices.

Pervasive Security
• Visibility solutions for physical networks, virtualized environments such as Cisco ACI or VMware NSX and public cloud deployment help ensure that any traffic of interest can be inspected.
• SSL inspection features mean that even encrypted traffic can be analyzed.
Figure 1: Gigamon GigaSECURE Security Delivery Platform and Cisco Firepower Joint Solution

Monolithic Security Stack

- E.g. WAN router
- E.g. Firewall
- E.g. IPS
- E.g. WAF
- E.g. ATP
- E.g. Core switch

GigaSECURE Security Delivery Platform

- IPS
- IPS
- WAF
- ATP
- ATP
- ATP

Scalability
- Maximize tool efficacy
- Increase scale of security inspection tools
- Integrate inline, out-of-band, flow-based tools and metadata

Operational Agility
- Add, remove and upgrade tools seamlessly
- Migrate tools from detection to prevention modes
- Consolidate multiple points of failure into a single, bypass-protected solution

Figure 2: Scaling Threat Prevention Tools with GigaSECURE

Learn More

For more information on the Cisco and Gigamon solution, contact:

www.cisco.com

www.gigamon.com