Pervasive Visibility Enabling Pervasive Security with Fortinet and Gigamon

**Introduction**

With breaches occurring across many of today’s complex, distributed networks, organizations must design their security architectures not only for prevention, but also for ongoing detection and segmentation to identify, fight, and contain threats that do appear. This means having a combination of technologies that can identify and address threats, coupled with visibility and resilience within the design that helps ensure problems are seen wherever and whenever they occur.

**The Gigamon + Fortinet Joint Solution**

The Fortinet award-winning next-generation firewalls (NGFWs) provide high-performance, consolidated security for end-to-end protection across the entire network. Through awareness of applications, users, and content within network traffic, FortiGate NGFWs offer comprehensive protection against known and unknown threats – such as ransomware, malicious botnets, zero-day, and encrypted malware. They offer scalable throughput of advanced security services, flexible network interfaces, and performance that helps ensure superior price, performance, and security efficacy.

The Gigamon Hawk cloud visibility and analytics fabric is a great match for the FortiGate devices. It ensures that all traffic across the hybrid cloud environment is delivered to Fortinet, removing potential blind spots and regardless of adverse network conditions.

For inline deployments, GigaVUE HC Series, a part of Gigamon Hawk, provides inline bypass protection to the NGFWs, offering two levels of bypass protection: physical and logical. Physical bypass preserves network connectivity and traffic flow. Logical bypass protects against planned or unplanned inline tool events that could disrupt network traffic. Positive and negative heartbeats monitor the health of the inline tool and in the event...
of a loss of link or loss of heartbeat, GigaVUE HC will bypass traffic around the failing tool. Alternatively, GigaVUE HC can bring down the network link and route the traffic to a redundant network path. GigaVUE HC Series can be deployed in highly resilient and robust arrangements to minimize outages resulting from power outages, inline tool upgrades/maintenance, or inline tool malfunctions.

In addition to the above, deploying FortiGate and Gigamon Hawk together has the following benefits:

+ **Traffic distribution for load sharing.** Improve the scalability of inline security by distributing the traffic across multiple FortiGate NGFW appliances, allowing them to share the load and inspect more traffic; matching traffic volumes to the scale and number of security appliances deployed rather than having to match the number of network links protected.

+ **Agile deployment.** Add, remove or upgrade FortiGate NGFW appliances without disrupting network traffic; converting FortiGate NGFW appliances from out-of-band monitoring to inline inspection on the fly without rewiring. Devices can be moved inline automatically or at the touch of a button, without a network outage.

For more information on Gigamon and Fortinet, visit: [gigamon.com](http://gigamon.com) and [fortinet.com](http://fortinet.com).