Joint Solution Brief

Optimize Business Application Delivery with LiveAction's LiveNX and Gigamon's Visibility Fabric

The Challenge
Business-critical applications always need to be protected and not impacted by less critical traffic. When there is an application performance problem, 90% of the time is spent identifying the root-cause as opposed to fixing the problem.

Integrated Solution
Gigamon's Visibility Fabric™ combined with LiveAction's LiveNX network visualization and analytics platform provides the effective visibility and actionable intelligence to optimize your network for business application delivery.

Joint Solution Benefits
- Monitoring and sending physical and virtual traffic metadata to LiveNX provides a deep understanding of application traffic flows throughout the entire network

- Generating NetFlow/IPFIX from any traffic flow avoids unnecessary processing on network devices and extends visibility to any location or flow within the network

- Masking sensitive data according to industry regulations can help meet compliance

- De-duplicating, aggregating, filtering, and offloading packet processing provides LiveNX an optimized data source in order to accurately represent network flows

Introduction
Complex network environments require simple monitoring solutions. Organizations use LiveAction's LiveNX to manage network performance in these environments. Leveraging Gigamon's Visibilty Fabric™ to capture and intelligently route high-fidelity streams of network traffic, LiveNX provides an intuitive and powerful way to monitor and manage application and network performance for today's enterprise IT environments and provide benefits in the following areas:
- Hybrid WAN/SD-WAN Monitoring and Service Assurance
- Voice and Video Optimization
- QoS Configuration
- Application Performance and Troubleshooting
- WAN Bandwidth Management
- Capacity Planning and Performance Baselining
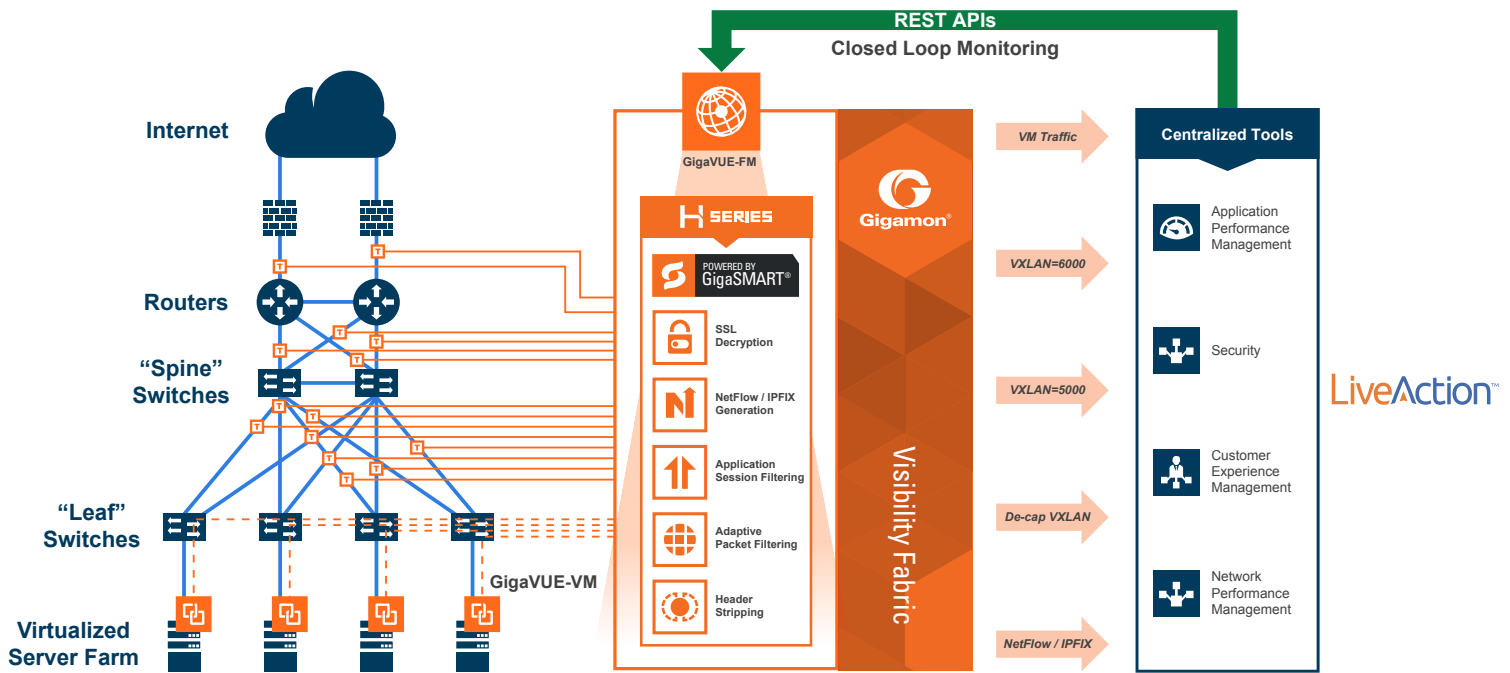- Cyberseurity

The Gigamon and LiveAction Joint Solution
Gigamon's Visibility Fabric combined with LiveAction's network visualization and analytics platform, LiveNX, provides the effective visibility and smart analysis to optimize your business application delivery. Gigamon and LiveAction also provide joint customers with visibility into areas of the network where flow data isn't available either over concerns about router performance or because the routers do not support NetFlow/IPFIX.

When troubleshooting a complex problem, it may be essential to perform highly granular flow analysis. But data center devices usually only sample traffic flows. This reduces consumption of router resources at the expense of losing granularity. Gigamon's Visibility Fabric generates NetFlow records without sampling. LiveAction ingests the granular NetFlow records for storage and historical playback. The combined solution provides scalability, improves data center and WAN visibility, and accelerates both troubleshooting and resolution of performance issues happening in real-time or in the past.

How the Joint Solution Works
Gigamon's Visibility Fabric provides LiveNX with network traffic and continual NetFlow records. Network traffic from TAP and SPAN ports are sent to the Visibility Fabric. The user specifies which traffic to monitor and the Gigamon Visbility Fabric passes traffic and generates NetFlow/IPFIX records which are then exported to LiveNX for analysis.

LiveNX also leverages Cisco advanced technologies such as QoS, NBAR2, application visibility and control (AVC), Medianet, performance routing (PfR), and IP SLA to provide an effective monitoring solution in the area of application network performance. It uses SNMP to do basic monitoring for key technologies like QoS, IP SLA, routing, ACL and others. It uses NetFlow for advanced technologies like NBAR2, AVC, and now Gigamon's Visibility Fabric. Employing a variety of data sources, LiveNX visualizes flows across your network topology so you can understand what is happening in your network and the impact on application performance.

Key Gigamon Visibility Fabric features that augment the value of LiveAction's LiveNX include:

Easy access to traffic from physical and virtual networks:
Gigamon allows traffic from across the network to be managed and delivered to LiveNX, efficiently and in the correct format. To monitor east-west data center traffic, Gigamon taps virtual traffic and incorporates it into the Visibilty Fabric for delivery to LiveNX, for all traffic to be monitored and analyzed together.

NetFlow Generation: Processing intensive tasks can be offloaded from network devices by using Gigamon's Visibility Fabric functionality for generating unsampled, enhanced metadata in NetFlow or IPFIX format from any selected traffic stream and sent to LiveNX.

Traffic filtering: The Gigamon Visibilty Fabric can send specific traffic or sessions to LiveNX for visualization and analysis of targeted traffic.

Learn More

For more information on LiveAction and Gigamon solutions, contact:

LiveAction™
www.liveaction.com

Gigamon®
www.gigamon.com