



## Joint Solution Brief

# NetQuest and Gigamon Partner to Monitor Long-Haul and Metro Networks

### The Challenge

Monitoring long-haul and metro networks typically requires access to WDM, OTN and SDH/SONET, but standard analytic tools require Ethernet interconnect. Traditionally, ROADMs, OTN switches and routers have been used to convert these networks to Ethernet, but this is costly and difficult to manage.

### Integrated Solution

NetQuest's Interceptor surveys network interfaces and converts IP traffic within WDM, OTN and SDH/SONET networks to standard Ethernet, providing direct interface to Gigamon's Visibility Fabric™ nodes and bridging the gap between long-haul/metro network and traffic analytic tools.

### Joint Solution Benefits

- Extends the reach of Gigamon's Visibility Fabric beyond standard Ethernet networks and into SDH/SONET, OTN, WDM and 100G+ coherent
- Surveys, processes, inspects, and intelligently filters data packets from concurrent traffic streams across the wide area network (WAN)
- Pervasive and continuous visibility across long-haul and metro networks

### Introduction

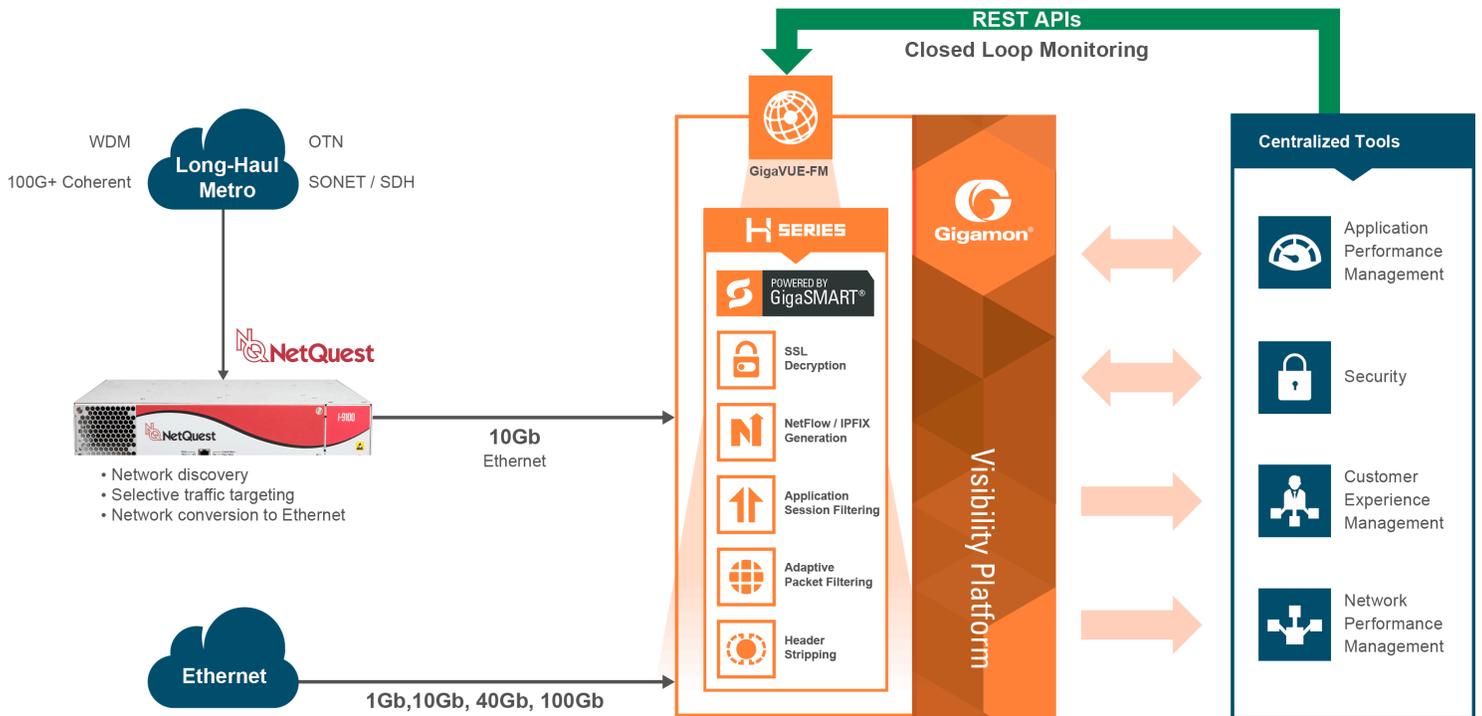
Traditionally, standard network elements like routers, OTN switches, and ROADMs have been used to provide monitoring access to long-haul and metro networks. These network elements have provided traffic translation for WDM, OTN, or SDH/SONET to Ethernet, but are not optimized for monitoring applications and typically challenge users from a configuration and budget perspective.

The NetQuest Interceptor solution is purpose built for long haul and metro network monitoring access, eliminating the need for multiple network elements to translate signals to Ethernet. Collectively, the NetQuest solution expands Gigamon's Visibility Fabric beyond the traditional boundaries making it possible for Gigamon customers to extend their monitoring infrastructure to networks such as 100Gb, OTU4, 10G OTU2e, or STM-64/OC-192. Complimenting Gigamon's Visibility Fabric nodes with the NetQuest Interceptor allows analytic applications like Anti-Malware, Intrusion Detection Systems, (IDS), Network Forensics, and Traffic Capture to access previously unreachable traffic.

### The Gigamon and NetQuest Joint Solution

The NetQuest Interceptor portfolio performs a network survey and media conversion function that enables Gigamon solutions to interface with the various optical transport technologies being employed. The solution works by discovering the monitored link's physical and virtual layer signaling structure, removing relevant overheads and encapsulating the raw packet data into properly formed Ethernet frames, effectively facilitating simple connectivity to the Gigamon solutions. Additionally, the NetQuest system can append metadata relevant to the wide area network (WAN) traffic source and further extend the reach of Gigamon's Visibility Fabric solutions.

Using NetQuest's Interceptor, Gigamon customers can gain and maintain real-time access to IP traffic carried over long-haul and metro networks regardless of the monitored link's signaling speed, tributary hierarchy or framing attributes. The Gigamon Visibility Fabric architecture then delivers pervasive and dynamic traffic visibility from across physical and virtual network environments to centralized tools that manage, analyze, and secure the network. This approach can extend the network reach of tools to significantly improve the return on investment, allow organizations to more efficiently monitor and secure their network, and provide a solution that can quickly evolve and scale as network needs change.



### Learn More

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

