



SOLUTION BRIEF

ixia

NetQuest
Monitoring Access Solutions

NETWORK VISIBILITY FOR CYBER DEFENSE OF DWDM, OTN AND SONET/SDH NETWORKS

CHALLENGES:

- Monitoring Wide Area Networks typically requires access to DWDM, OTN and SONET/SDH networks but standard analytic tools require Ethernet interconnect
- Traditional methods (ADMs and Routers) for converting Wide Area Network interfaces to Ethernet are costly, difficult to manage and do not adapt well to network re-provisioning
- Monitoring and security tools need full access to network packet data to protect networks and applications

SOLUTIONS:

- NetQuest Interceptor can directly access Wide Area Network and detect physical line attributes and virtual transport hierarchy
- NetQuest Interceptor can convert packets within DWDM, OTN and SONET/SDH networks and drive traffic of interest directly into Ixia Vision ONE via standard Ethernet
- Ixia's Vision ONE network packet broker provides all monitoring and security tools the data they need

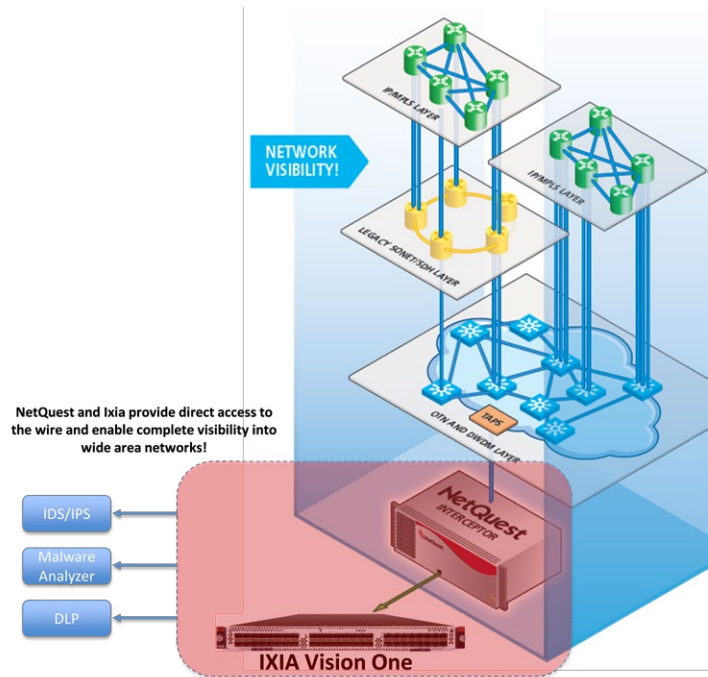
RESULTS:

- High-performance, lossless network visibility beyond Ethernet networks
- Extends the reach of network surveillance tools into DWDM, OTN and SONET/SDH networks

MONITORING ACCESS SOLUTION FOR WIDE AREA NETWORKS

To meet the demand for constant network bandwidth growth, Network Service Providers are deploying new core and metro packet optical transport network architectures. The need for delivering faster, better and cheaper on-demand services are pushing Data Centers closer to the network edge in order to localize user content. Network architectures are transitioning from traditional SONET/SDH based ring topologies to intelligent mesh based networks in order to avoid bottlenecks and improve resiliency. These new packet optical transport systems are combining DWDM, OTN, and packet switching technologies to create a more robust and resilient global network.

This networking evolution is creating similar challenges for those responsible for ensuring network security. The exponential growth in users and connected devices makes monitoring endpoints prohibitively expensive. Intelligent mesh based networks force monitoring and traffic visibility functions to be spread throughout the metro networks. Deep packet inspection required by specialized analytic tools is creating massive processing challenges. Together, the NetQuest Interceptor and the Ixia Vision ONE provide a comprehensive network visibility solution that can dig through the layers of today's WAN networks and capture unique traffic flows of interest for critical cyber defense applications.



ABOUT NETQUEST INTERCEPTOR

NetQuest's Interceptor extends the network visibility solution into the WAN by providing unique network survey functionality including the ability to report precise mapping details of traffic flows inside a high-speed optical network without any existing knowledge of the network's provisioning. This reporting capability includes details regarding the hierarchical transport structure and existing protocols carried over 10G/40G/100G DWDM, OTN, SONET/SDH and Native Ethernet. The Interceptor enables selective targeting of these traffic flows and performs full media conversion in order to steer traffic to identified Ethernet ports.

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ABOUT IXIA VISION ONE

Ixia's Vision ONE provides full-rate packet processing capabilities optimizing network monitoring tool performance by ensuring that each tool gets exactly the right data needed for analysis. Integrated intelligence features enable you to access encrypted traffic using SSL decryption, reduce analysis traffic using advanced packet processing, and precisely select traffic by application type, geography, and device criteria using deep packet inspection (DPI). Vision ONE forwards selected traffic in a variety of formats to interoperate with any security tool.

ABOUT IXIA

Ixia delivers a powerful combination of innovative solutions and trusted insight to support network and security infrastructures from concept to operation. Whether you are preparing a product for launch, deploying a service or application, or managing performance in operation, we offer an extensive array of solutions in testing, visibility, and security—all in one place.

Our solutions are used worldwide to validate network functions, test the integrity of security infrastructures, and deliver an end-to-end view of the network. The result: stronger applications, better performance, increased security resilience, happier customers, and maximum ROI.

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