



## Eliminate Blind Spots in Your Network

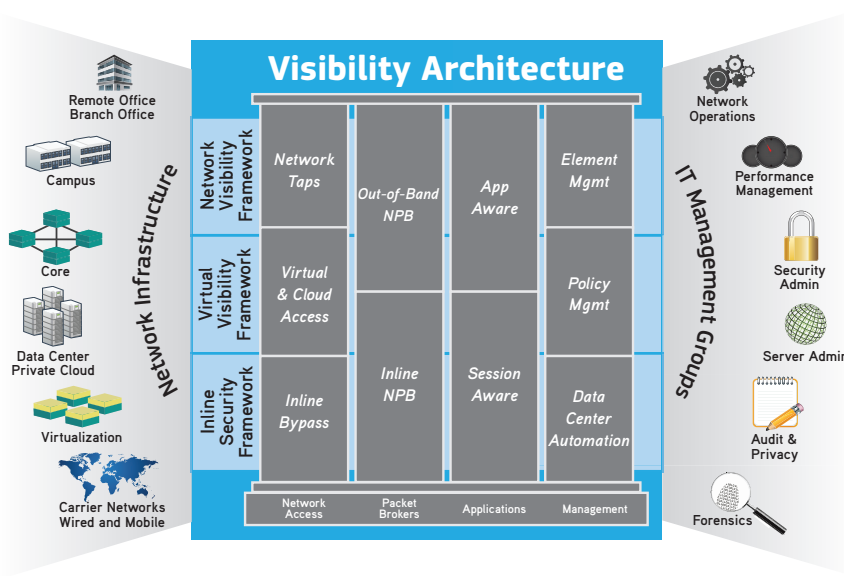
### Ixia's Visibility Architecture: A New Perspective On Network Visibility

Today's networks are growing in both size and complexity, presenting new challenges for IT and network administrators. More mobile devices are now connecting to more data from more sources—and much of that is due to virtualization. IT challenges are further complicated by increasingly high customer expectations for always-on access and immediate application response. This complexity creates network "blind spots" where latent errors germinate, and pre-attack activity lurks.

Blind spots are commonly caused by the following issues: lack of SPAN and tap ports which limit tool access to data; dropped and duplicated packets, which suppress or delay actionable information; and monitoring plans that are behind migration cycles. Stressed-out monitoring systems make it hard, if not impossible, to keep up with traffic and filter data "noise" at a rate that they were not designed to handle.

Network blind spots have become a costly and risk-filled challenge for network operators. Further, unseen inter-VM and cross-blade data center traffic leaves the network vulnerable to threats, noncompliance, loss of availability, and impaired performance. Today, up to 80 percent of data center traffic can travel between servers, making end-to-end visibility a real challenge.

The answer to these challenges is a highly scalable visibility architecture that helps eliminate blind spots, while providing resilience and control without complexity. Ixia's Visibility Architecture delivers a new perspective on network visibility.



#### TOTAL APPLICATION AND NETWORK VISIBILITY

The Ixia Visibility Architecture encompasses network access solutions, network packet brokers, application and session visibility solutions, and an integrated management platform.

- Helps eliminate blind spots in the network by getting the right information to the right tools at the right time.
- Extends the life of existing IT tools investments and maximizes the usefulness of the current tool capacity.
- Easily integrates into automated and software defined data center environments.

#### The Ixia Visibility Architecture: A Robust, Scalable, End-to-End Solution

Ixia's new Visibility Architecture, is founded on a comprehensive product portfolio of high-performance taps, virtual taps, bypass switches, and network packet brokers (NPBs), all easily deployed and managed.

Ixia's Visibility Architecture helps speed application delivery and enables effective troubleshooting and monitoring for network security, application performance, and service level agreement (SLA) fulfillment—and allows IT to meet compliance mandates.

## Three Integrated Frameworks: Network Visibility, Virtual Visibility, and Inline Security

All three integrated elements of the Ixia Visibility Architecture enable a key component of a total, end-to-end visibility architecture. The Network Visibility Framework provides a solution to support out-of-band monitoring in the physical network. The Virtual Visibility Framework is integrated with

the Network Visibility Framework and provides a solution to support out-of-band monitoring of all traffic in the virtual network. The Inline Security Framework enables fail-safe deployment of multiple inline security enforcement tools such as IPS's, NGFW's, etc.

Framework	Description
<b>Network Visibility Framework</b>	Ixia's Network Visibility Framework speeds network event diagnosis and automates service provisioning. NEBS-certified, carrier-class, and high availability and reliability features provide security and mission-critical reliability and resilience. Offering support for 10/100MB, 1GE, 10GE, 40GE, and 100GE solutions, the Network Visibility Framework's NPBs perform aggregation and filtering, packet deduplication, and static/dynamic load balancing to optimize tool performance and longevity. An easy-to-use control panel enables smooth global management, while the RESTful API allows for data center service provisioning and orchestration systems integration.
<b>Virtual Visibility Framework</b>	Robust, scalable, and, simple to deploy, the Ixia Virtual Visibility Framework provides a single solution for virtual visibility and troubleshooting. It enables inter-VM (east-west) traffic monitoring to help eliminate the blind spots in virtualized environments. It uses existing network, application, and security visibility tools to monitor virtual environments. When implemented, the integrated Network Visibility Framework and Virtual Visibility Frameworks provide end-to-end visibility across both the physical and virtual networks – all under a single management platform.
<b>Inline Security Framework</b>	Inline monitoring has proven to be the most effective approach to network security, with its ability to prevent threats rather than react when a crisis arises. These inline devices include powerful, scalable security resources which do not slow or block application traffic – intrusion prevention systems (IPS), firewalls, data loss prevention systems, SSL decryptors, and web application firewalls (WAF). The Ixia Inline Security Framework enables the fail-safe deployment of these inline security devices at any point in the network. Bi-directional heartbeat monitoring of the inline security devices keeps congestion, latency or failures of these devices from impacting network uptime and/or critical security postures.

## Advanced, Efficient, and Comprehensive Visibility Solutions

Driven by the momentum of innovation and competition, new customer service challenges are arising and intensifying daily. IT teams need an infrastructure that offers total visibility and tool access to any point in the network – one that is nearly limitless in scalability but simple to manage and troubleshoot. Unique in delivering these capabilities with a single, integrated approach, the Ixia Visibility Architecture helps control tool costs and administrative burdens, while optimizing the investment value of network assets. Ixia provides customers with the resources and confidence to meet current and arising needs in a dynamic global landscape.

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