IXIA FABRIC CONTROLLER (IFC)

DATA SHEET

Improving Performance and Security at Scale

In today's complex IT environment, administrators need a holistic view of their networks. That means eliminating blind spots with end-to-end visibility from any point on the network.

Application performance and compliance mandates remain at risk without superior network visibility and security seen through a single pane of glass. Large enterprises and service providers find themselves challenged by budget constraints, resource constraints, and the complexities inherited in extending visibility.

IXIA FABRIC CONTROLLER WITH PEERING

Ixia Fabric Controller (IFC) is a centralized, advanced capability, intelligent monitoring system with end to end global visibility – basically an SDN controller for visibility. IFCs ability to handle distributed architectures gives network administrators access to traffic sent to monitoring and diagnostic tools from any point in physical, virtual, and SDN networks. By allowing adminstrators to control an entire visibility structure through one interface, Ixia Fabric Controller accelerates application delivery, and enables powerful troubleshooting for enhanced network security, application performance, and SLA fulfillment.

Smart Fabric

Using Smart Fabric technology can manage adding network packet brokers or configuring ports easily and automatically. When discovery is complete additional ports are available, Ixia's visibility intelligence capability – NetStack, PacketStack, SecureStack and AppStack – resources can be used across the fabric, regardless of which chassis has the physical resource. This makes it easy to operate across multiple sites, providing the centralized management required of modern networks.

Highlights

- Ixia Fabric Controller provides a single "pane of glass' which displays multiple Ixia network packet brokers
- Two modes of operation Peering, or Cisco Nexus aggregation
- Average savings up to 50% over full network visibility fabrics
- Integration with Ixia's Vision Network Packet Brokers
- Integration of selected Vision ONE products to enable large-scale, out-of-band visibility monitoring across hundreds of points within a large data center
- Accelerate application delivery
- Reduce troubleshooting time in large scale deployments

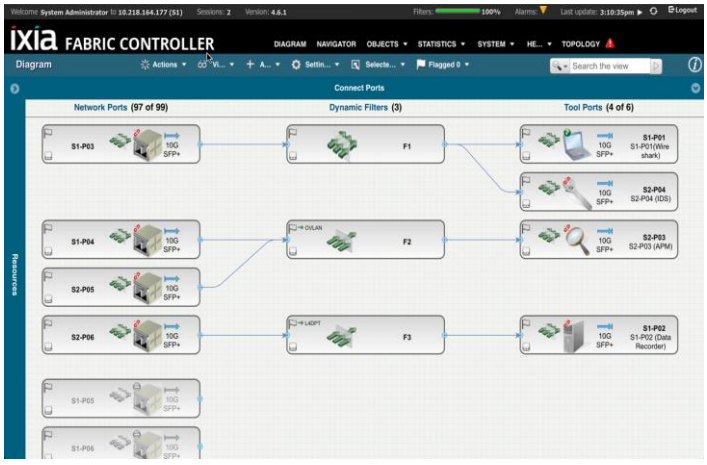

Figure 1: IFC Interface

Multiple topology support

Customers deploying monitoring solutions today continue to be challenged; how do I get the distributed packet brokers working together cost effectively? Lets say you have 2-3 remote offices and you want flexibility in connecting them because of connectivity costs. Our architecture will allow you to connect the packet brokers in various topologies allowing you to make the best business sense. It also allow a level of resiliency that you would get for example in a hub and spoke model and what is call it a peered solution. With a peered solution are equal and if any of the packet brokers fail the other units are still accessible and continue to function.

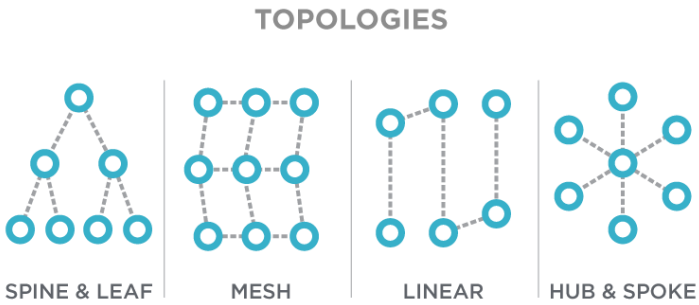

Figure 2:Supported Topologies

Wide-Scale Monitoring with IFC Peering

As cyber threats expand, and the cost of downtime increases, businesses increasingly want to deploy massive monitoring solutions. With the integration of select Ixia Vision products, Ixia enables peering visibility management solutions. IFC extends the benefits of sophisticated packet processing provided by its patented filter compiler to many more end-points across a network. Combining select Ixia Vision products provides scalability of physical ports with an easy to use interface enabled through IFC, representing a winning solution for customers. IFC will accelerate application delivery, improve troubleshooting, and ensure businesses stay ahead of cyber threats.

KEY FEATURES:

- Centralized network visibility management and operational control via a single pane of glass
- Scales monitored segments and tools without increasing management overhead
- Powerful troubleshooting for enhanced network security, application performance, and SLA fulfillment
- Cost-effective visibility deployment that is easy to change as networks evolve to ensure networks are properly secured and managed
- Open API’s for seamless integration with SDN Controllers, including Cisco ACI

IXIA FABRIC CONTROLLER WITH CISCO NEXUS AGGREGATION

Ixia has also made it easy for those looking for an entry-level visibility solution with the integration of select Cisco Nexus 3000/9000 switches with IFC. Employed in a leaf-spine topology, the Cisco switches aggregate, then a Vision network packet broker filters data before sending to security and monitoring tools.

USE CASES:

Primary uses of Ixia Fabric Controller include enabling enterprises to aggregate data, filtering traffic, and creating new operating efficiencies with dynamic tools. Specifically, early users have been interested in these use cases:

Dynamic monitoring — Many links only need occasional monitoring, for example, managing service levels or troubleshooting performance or application issues. Ixia Fabric Controller enables you to quickly and easily route traffic to the appropriate tools for analysis, allowing you to identify the problem and take corrective action. Once the network problem is isolated, the monitoring can be easily removed via the drag and drop web interface. This sharing of resources provides a powerful and economical solution versus the alternative of having personnel working after hours to resolve issues.

User Security — Role-Based Access Control (RBAC) adjusts the monitoring environment to allow multiple users to work together without interfering with each other. Using the Local, TACACs, or Radius login, Ixia enables Network Operations management to control who has access to Network ports, Dynamic Filters, or Tools ports.

ORDERING INFORMATION

Ixia Fabric Controller feature uses a license enables the Vision network packet brokers to create peer groups or Cisco's Nexus managed aggregation of NPBs.

IFC Licenses	
PART NUMBER	**DESCRIPTION**
LIC-V1-IFC	Ixia Vision ONE, Ixia Fabric Controller license - Enables peer management functionality on Vision ONE - QTY (1)
LIC-E100-IFC	Ixia Vision E100, Enables Ixia fabric controller (IFC) for direct connection to Vision ONE or Vision 7300/3; licensed per system; Requires previous or adjunct purchase of port licenses to operate
LIC-E40-IFC	Ixia Vision E40, Enables Ixia fabric controller (IFC) for direct connection to Vision ONE or Vision 7300/3; licensed per system; Require previous or adjunct purchase of port licenses to operate
LIC-V1-IFC-CSCO	Ixia Vision ONE, Ixia Fabric Controller feature license - Enables Cisco Nexus aggregation management functionality on Vision ONE - QTY (1)

Ixia Vision ONE System	
HARDWARE BUNDLE PART NUMBER	**DESCRIPTION**
SYSV1FC8PX4P4XAC	Ixia Fabric Controller bundle includes the following: Vision ONE System with fixed (48) 1G/10G SFP/SFP+ ports, fixed (4) QSFP+ ports, built-in 160Gbps PacketStack capability and built-in SecureStack and AppStack capability. Plus (1) blank rear expansion slot. INCLUDES activation license for (8) SFP/SFP+ ports 10Gbps, (4) QSFP+ 40Gbps operation, and LIC-IFC. Includes intuitive web-interface control and Ixia's NetStack features (L2-L4 filtering, customizable filters, multi-point aggregation, replication, and load-balancing). NOTE: Additional licenses available from Ixia to activation PacketStack, SecureStack and AppStack capabilities and remaining ports. Transceivers not included, but compatible transceivers available and may be purchased from Ixia.

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