



Cisco and Ixia

Ixia Phantom™ vTap Monitors Traffic Passing Through the Cisco Virtual Switch Using Nexus1000V to Deliver Total Visibility.

This Cisco and Ixia joint solution is an ideal security and compliance resource: The Phantom vTap delivers unprecedented visibility by monitoring traffic passing through the Cisco virtual switch, using the Cisco Nexus 1000V Series. The tap also delivers inter-VM traffic monitoring without inflicting the inherent limitations of hypervisor span ports.

Cisco Nexus 1000V Series switches offer highly-secure, multitenant services by adding virtualization intelligence to the data center network. These soft switches are integrated with VMware vCloud Director and are built to scale for cloud networks, with support for virtual extensible LAN (VXLAN). This capability addresses the requirements for scalable LAN segmentation and helps to enable broader virtual machine (VM) mobility.

The Cisco Nexus 1000V Series comprises two components:

- Virtual Ethernet Module (VEM), a software switch embedded in the hypervisor
- Virtual Supervisor Module (VSM), which manages networking policies and quality of service (QoS) for virtual machines in concert with the VEM

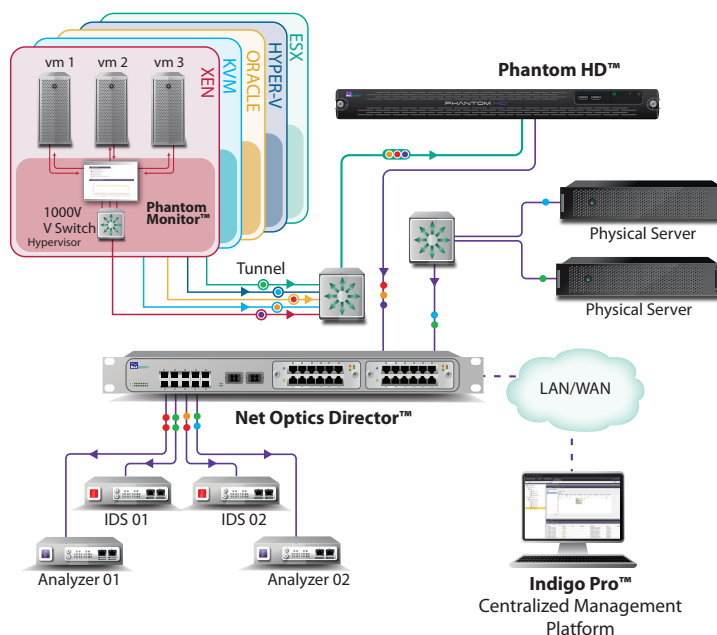
Integration Benefits

- Delivers 100-percent visibility of traffic passing between VMs on hypervisor stacks
- Supports best-of-breed hypervisors and virtual switches
- Integrates seamlessly with the hypervisor at the kernel level
- Bridges virtual traffic to physical monitoring tools

Phantom vTap Delivers Total Inter-VM Visibility—Penalty-Free

Ixia's innovative Phantom vTap was engineered to monitor traffic passing through the Cisco virtual switch using Nexus 1000V. The key to this advantage is visibility: Phantom enhances network visibility, including inter-VM traffic monitoring, without the limitations of hypervisor span ports. The solution:

- Delivers 100-percent visibility of traffic passing between VMs on hypervisor stacks
- Supports best-of-breed hypervisors and virtual switches
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Virtual Networking Services

The Cisco Nexus 1000V Switch can optimize the use of Layer 4-7 virtual networking services in virtual machine and cloud environments through Cisco vPath architecture services. Cisco vPath technology is aware of all Layer 4-7 policies associated with individual virtual machines. Once the data packets of a specific virtual machine have been identified and policies applied, the remaining data packets flow directly to the virtual machines. The following virtual networking services are integrated with the Cisco Nexus 1000V Switch.

Cisco Virtual Security Gateway (VSG)

Delivers security policies across multiple servers. It supports virtual machine mobility across physical servers for workload balancing, availability, or scale for business growth in cloud computing.

Cisco Virtual Network Management Center

Provides centralized multidevice and policy management for the Cisco VSG.

Cisco ASA 1000V Cloud Firewall

Employs mainstream, proven Adaptive Security Appliance (ASA) technology to provide trusted security to multi-tenant virtual and cloud infrastructures at the edge.

Cisco Virtual Wide Area Application Services (vWAAS)

A WAN-optimization solution delivers application performance acceleration to IT users connected to enterprise data centers and enterprise private clouds.

Cisco Nexus 1010 Virtual Services Appliance

Designed for customers seeking a dedicated hardware platform to deploy services critical for a virtualized infrastructure.

Ixia Phantom vTap

Eliminates visibility challenges through integration with Cisco Nexus 1000V virtual switch. Ixia solutions work hand-in-glove with Cisco products to deliver monitoring

Ixia Phantom vTap

Delivers passive monitoring of inter-VM traffic across all best-of breed hypervisors in virtual computing stacks. Phantom Manager component provides tap control, administration, and traffic visibility. The Phantom Monitor component installs in the hypervisor for total traffic visibility. Use with virtual or physical intrusion detection systems (IDSs), protocol analyzers, Layer-2 and Layer-3 probes, and other devices.

and access capabilities to Cisco's Data Center 3.0 environments and beyond. By providing total visibility of data and traffic running through Cisco's Virtual Infrastructure solutions—including VN-Link with Cisco Nexus 1000V—the Ixia Phantom vTap is a vital resource for compliance, security, and management in your Cisco environment.

About Ixia

Ixia (NASDAQ: XXIA) is the leading provider of total application and network visibility solutions that deliver real-time network intelligence for peak performance in network monitoring and security. As a result, businesses achieve the scalable end-to-end visibility they need to optimize network performance of physical, virtual and private cloud environments, and remote branch offices.

About Cisco

Cisco (NASDAQ: CSCO) is the worldwide leader in networking that transforms how people connect, communicate, and collaborate. Information about Cisco can be found at <http://www.cisco.com>. For ongoing news, please go to <http://newsroom.cisco.com>.

Phantom vTap Part Numbers

PT-DC-25	Phantom Tap software and license: Manager + 25 Monitors perpetual license
PT-DC-50	Phantom Tap software and license: 5 Manager + 50 Monitors perpetual license
PT-01-Custom	Phantom Virtualization Tap, 1 Manager + 1 Monitor, One Year License

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