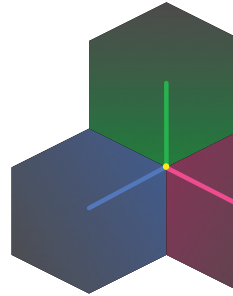




Corvil and Net Optics Partnership Meets the Needs of High-Speed Virtualized Data Centers for Total Visibility, Peak Performance, Security and ROI



Net Optics and Corvil Solution Overview

The partnership between Net Optics and Corvil creates a total, rich-featured solution that answers the diverse challenges raised by virtualization deployment. In a dynamic, fast-changing environment, Net Optics and Corvil together deliver the combined critical capabilities needed to optimize data center health, performance and security. Customers of this joint solution now enjoy the confidence that their virtual data centers embody full visibility of intra-VM (← east-west →) traffic.

Concerns for network security, compliance, and performance monitoring arise when current physical monitoring tools cannot extend easily into the new virtualized environments. Investing in costly new virtualization-specific tools—and in the related processes and training they require—can diminish or even forfeit key economic benefits and cost-savings. The Phantom Virtualization Tap is a tool agnostic, non-proprietary solution that enables optimal use of existing Corvil appliances. The ability to monitor both the physical and virtual environments with accuracy and reliability leverages a company's substantial tool investment and increases lifespan, value and ROI.

Solution Architecture:

The Phantom solution can replicate all traffic within the virtual switch, apply smart TapFlow™ filtering, and send traffic of interest directly to end-point devices.

Combining the CorvilNet along with the Net Optics Phantom Virtualization Tap PT-DC-50 and Phantom HD PT-HD-10-D provides a powerful monitoring solution that provides total visibility across both the physical and virtualized network for data center environments.

The Corvil CNE-6300: The CorvilNet product architecture addresses diverse application monitoring requirements including the need for real-time analysis, an independent and complete view of all application activity (through wire data capture) and rapid troubleshooting for the teams overseeing application operations and network management.

The Phantom solution can replicate all traffic within the virtual switch, apply smart TapFlow™ filtering, and send traffic of interest directly to endpoint devices. By sending only relevant traffic for monitoring you can optimize the functionality and ROI of your Corvil appliance, and remove the risk of becoming oversubscribed or experiencing packet drops.

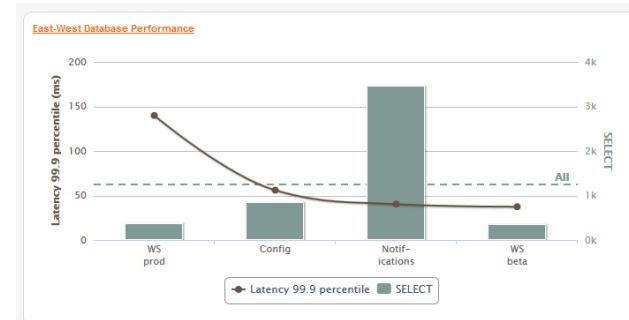
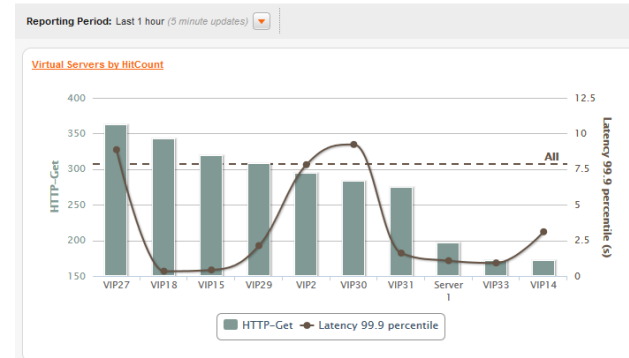
CorvilNet takes the vast amounts of raw data from the virtual infrastructure and structures it into real-time application performance. Full visibility and capture of all the application traffic is provided with a full decode of the

Solution Highlights

- Increase ROI substantially through the ability to leverage existing Corvil appliances to monitor both the physical and virtual environments
- Provide precision monitoring and rapid troubleshooting for both the application operations and network management teams
- Gain total visibility of intra-VM (← east-west →) traffic for superior monitoring and security.
- Optimize appliance functionality, ROI and lifespan with a solution that exports only traffic of interest from virtual machines onto the physical instrumentation layer
- Properly defend and audit the network by means of full, transparent and non-intrusive visibility to monitoring tools without packet drops or oversubscription



CorvilNet | Lens



messages and fields exchanged between the application tiers in the virtual environment. This data can be leveraged to search, filter, aggregate, summarize and report on any application payload. For example, capture and decoding all the east-west database messages between the application front end and the database tier enables the client to correlation application performance with database performance in a virtual environment.

The Phantom Virtualization Tap PT-DC-50: The Net Optics Phantom Virtualization Tap™ is a landmark network traffic monitoring and access solution for virtualized computing environments, including converged data centers. It captures data passing between virtual machines (VMs) and sends traffic of interest to virtual and physical monitoring tools of choice.

A physical network security device configured on a virtual networked environment cannot properly defend or audit the network because it simply doesn't see the traffic that it's supposed to be protecting. The Phantom solution resolves this thorny challenge of inter-VM traffic invisibility. Known as "the black hole" or "the blind spot," this invisibility puts a company at high risk of threats lurking there undetected by monitoring equipment. Tools cannot protect what they cannot see. The innovative Phantom software provides 100% visibility of virtual network traffic to the tools—including previously unseen inter-VM traffic on hypervisor stacks. Visibility of packet-level data lets network administrators manage virtual network security, compliance, and performance using their choice of instrumentation layer tools, whether physical or virtual; local or distributed.

The Phantom Virtualization Tap integrates directly and deeply into the hypervisor kernel and supports every significant hypervisor on the market, including VMware ESXi 5.x, Microsoft Hyper-V 2012, Citrix Xen Server; Red Hat KVM; Oracle VM 3.0 and Parallels 6.0. Agnosticism, easy deployment and streamlined management make this Tap ideal for the virtual environment, which has no time for proprietary roadblocks. In fact, Phantom is the only kernel implementation that is agnostic not only to hypervisors, but to virtual switches and tools, creating an "area of interoperability." The Tap also allows full access to the entire network stack without incurring the performance penalty of running the vSwitch in promiscuous mode.

This Phantom solution lets customers smoothly export traffic of interest from their virtual machines back onto their physical instrumentation layer, requiring no changes and creating no single point of failure. Now a company can leverage current policies and physical monitoring tools to derive their full value and functionality. This allows funds that would have been invested in costly specialized tools to be applied to core business needs.

The Phantom HD PT-HD-10-D: The Phantom HD solution works with the Phantom Tap to deduplicate redundant packets so that the tools receive only a single copy of traffic. The cost savings are instantaneous, and the tools are freed from meaningless labor.

Phantom HD serves as the GRE termination point before traffic is forwarded to the Corvil appliance. It incorporates advanced new functionality that performs packet management, tunnel decapsulation and network traffic management, all on a single device that addresses virtualized/converged and physical environments.

Phantom HD aggregates inter-VM traffic that has been tunneled out of ESX hosts which is encapsulated in sophisticated new protocols. The drawback to those protocols is that they often make traffic invisible to monitoring tools and lay the network open to threats and intrusion. The purpose-built Phantom HD appliance swiftly decapsulates that traffic and sends it on in raw form to the tools, which can now perform their vital security functions unimpeded. Phantom HD also resolves a persistent concern of customers whose networks are virtualizing or whose architecture employs complex tunneling technologies—namely removal of duplicate traffic captured in various areas of the network. Phantom HD deduplicates and reduces the costly "packet payload overhead" placed on these tools, optimizing their performance and value.

This solution eliminates feeding tools duplicate captures by "deduping" the traffic. Now the tools can process only a single copy of that traffic of interest—optimizing and preserving a customer's network and tooling resources."

Net Optics

Net Optics 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. More than 7,500 enterprises, service providers and government organizations—including 85 percent of the Fortune 100—trust Net Optics' comprehensive plug and play family of application-aware NPM, Network Packet Broker, Virtual/Cloud and Visibility Management System (VMS) solutions to deliver immediate results and quick time to value through an easy-to-use interface.

Corvil

Corvil provides the leading Operational Performance Monitoring Platform (OPM) for IT. Customers use Corvil to optimize and safeguard the operational performance of their business processes and services and their IT systems.



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