

OptiCop 10G Converger[®]: E-Series

BENEFITS

- Load balancing to overcome tool limitations
- Multi-layer filtering to access only data of interest
- Remote monitoring and tool sharing to reduce CAPEX
- Eliminate costly port mirroring
- Minimize network tapping

OVERVIEW

NetQuest's E-Series OptiCop 10G Converger products provide test and monitoring access for today's high-speed Ethernet packet networks in Carrier, Government, and Enterprise applications. The out-of-band or non-intrusive access optimizes tool port usage and enables network operators to implement management, assurance, and security strategies related to the overall performance of the services being delivered, without degrading the service or distorting the results.

Ethernet networking enables network administrators and operators to more flexibly and efficiently utilize network bandwidth by converging services, yet each service or application needs to be measured independently relative to the expectations of the customer. OptiCop 10G Converger and its advanced Hybrid Inspection Technology (HIT) provide a means to extract the traffic of interest and leverage existing investments in security and monitoring tools.

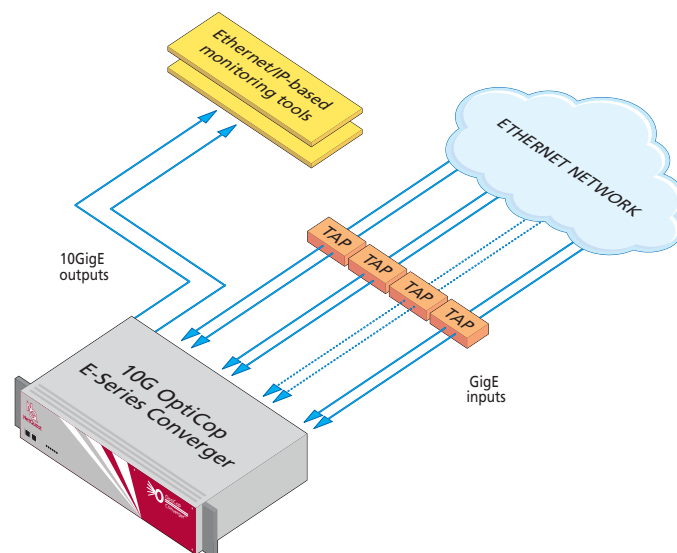
APPLICATIONS AND FEATURES

With OptiCop 10G Converger deployed in an Ethernet network, engineers can traffic manage applications or flows of interest by sending them to the appropriate test and monitor tools. Everyday, network engineers are challenged with tool constraints like port and processing limitations, protocol-specific testing, remote monitoring, and budget. Features like traffic aggregation, multicasting, load balancing, filtering, and routing of IP traffic make OptiCop 10G Converger a powerful tool in the engineering of today's advanced networks.

OptiCop 10G Converger leverages investments in monitoring tools such as Sniffers, Performance Management Probes, Lawful Intercept Systems, Security/NAC Devices, Traffic Analyzers, and Bulk Data Recorders by providing port and traffic optimization. OptiCop 10G Converger's flexible interfaces, unique traffic handling capabilities, high port density, and powerful parallel processing functions set a new standard for monitoring access to converged IP networks.

MONITORING ACCESS

The E-Series systems can access network traffic in one of three configurations: One-to-Many, Many-to-Many, or Many-to-One. By utilizing the system in One-to-Many configurations, converged traffic can be distributed or load balanced to the monitoring equipment. In Many-to-Many configurations the OptiCop 10G Converger can monitor multiple networks and segments and then distribute traffic to multiple monitoring systems. Many-to-One configurations provide aggregation of underutilized networks and leverage a single monitoring system interface. The network facing interface(s) provides access to the network data operating in promiscuous mode through either optical tap ports or a directly connected



OptiCop 10G Converger in an Ethernet network

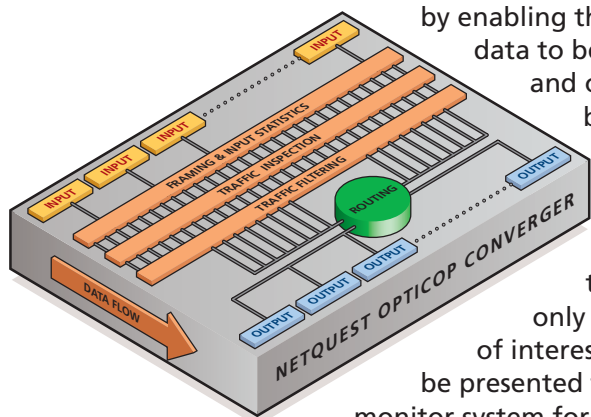
Ethernet port. In each of these configurations, the traffic destined for the monitoring equipment is controlled by the network administrator through the OptiCop 10G Converger's intuitive menu-driven interface.

HYBRID INSPECTION TECHNOLOGY (HIT)

NetQuest has developed a powerful method to inspect traffic at line rate using its unique Hybrid Inspection Technology (HIT). HIT logic is based on highly parallel, pipelined hardware architecture with protocol-specific inspection algorithms defined by software and executed in specialized hardware. The approach has been optimized to manage throughput delay and delay variations, ensuring monitoring and security equipment have an accurate view of network performance.

FILTERING AND ROUTING

The OptiCop 10G Converger leverages HIT technology by enabling the inspected data to be filtered and or routed based on user definable parameters. By filtering traffic, only the data of interest will be presented to the monitor system for processing, ensuring its valuable processing resources are preserved. Routing of the data puts the user in control of which tool interface will receive the data, and enables network, protocol, and application partitioning to match monitoring system requirements and limitations.



has 4 XFP interfaces and 4 SFP interfaces while the E-6400 has 4 XFP interfaces and 20 SFP interfaces. XFP and SFP interfaces can be configured as inputs or outputs and support 10GigE and 1GigE speeds respectively. The E-Series packaging is a 2RU chassis that is rack mountable and may be ordered with single or redundant power supplies with independent inputs for AC or DC sources.

MANAGEMENT

The OptiCop 10G Converger can be managed locally or remotely using menu-driven screens via Telnet or a serial crafts person port. Both interfaces provide secure access through a multi-level password protection system. OptiCop 10G Converger has an integral SNMP V1-V3 agent that supports GET, SET, and TRAP functionality. NetQuest's proprietary UDP-based control protocol, GSCP, provides for integration of the OptiCop 10G Converger interface into existing management systems.

For more detailed technical specifications, please email NetQuest at info@netquestcorp.com

TECHNICAL SPECIFICATIONS	
Size	2U rack mount or table top chassis: 3.5"H x 19"W x 17.25"D (8.9cm H x 48.3cm W x 43.8cm D)
Weight	16 pounds (7.27kg)
Power	140 W (110/220 VAC or 48 VDC)
Operating Temp	32° - 122° F (0° - 50° C)
Humidity	10-90% non-condensing
Compliance	FCC, UL, CE, RoHS
Management	Telnet, EIA232 Craft, SNMP V1-V3

CONFIGURATIONS

The E-Series OptiCop 10G Converger is available in two models, the E-4400 and the E-6400. The E-4400

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NetQuest Corporation designs, manufactures and markets innovative monitoring access products for applications in telecommunications service provider, government, and enterprise networks. Founded in 1987 and based in Mount Laurel, New Jersey, NetQuest is privately held and operates under the original management team. With more than a 20 year track record of providing cutting edge monitoring access solutions, NetQuest has developed a global customer base, marketing directly and through a network of value added resellers and representatives.