

NETSCOUT CyberOptimizer

HIGHLIGHTS

- Optimizes traffic flows before they reach security systems, reducing processing requirements and associated licensing fees.
 - Part of NETSCOUT's smart data solutions, NETSCOUT® CyberOptimizer leverages patented Adaptive Service Intelligence technology.
 - Leverages Adaptive Session Trace for powerful, granular data storage and retrieval for back-in-time analysis.
 - Supports Smart Application Filtering for intuitive Application Layer (L7) filtering.
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Exponential Data Growth Presents a Formidable Challenge for Security Monitoring

Network traffic growth is one of the biggest data center challenges faced by enterprises and service providers. Security monitoring appliances leverage network traffic to detect security threats, and scaling these to meet the explosive growth in traffic and applications continues to stress budgets, staff and technical limitations. As devices and end user traffic continue to grow, budgets struggle to keep pace and security tools are overwhelmed with traffic "noise" or worse, traffic the tool itself cannot handle. With an increasing number of workloads, and increasing threats to networks, it's critical that the security tools monitoring the networks become optimized, handling specifically the traffic crucial to their function, simultaneously enabling security and threat analysis while minimizing the total cost of ownership (TCO).

NETSCOUT CyberOptimizer

NETSCOUT CyberOptimizer is an add-on software module for CyberStream™ or InfiniStreamNG™ systems, for passive security deployments. CyberOptimizer delivers the performance and scaling capabilities needed to process network traffic generated by hundreds of thousands of users using thousands of applications and devices. NETSCOUT CyberOptimizer allows specific traffic to be sent to each security tool, allowing these systems to focus on their jobs, while maximizing the investment made in the security deployment. It delivers only the packets needed for tools, while simultaneously providing the ability to archive a complete set, or per-application subset, of traffic for export, enabling later replay and forensic analysis with third party tools.

With Adaptive Service Intelligence™ (ASI) functionality, packet optimization techniques are extended to easily configure filters, based on defined applications. CyberOptimizer keeps a copy of all traffic coming into the InfiniStreamNG™ or CyberStream for archiving and export. With integration into the NETSCOUT Security Analytics and nGeniusONE® dashboards, administrators gain complete visibility into their security deployments.

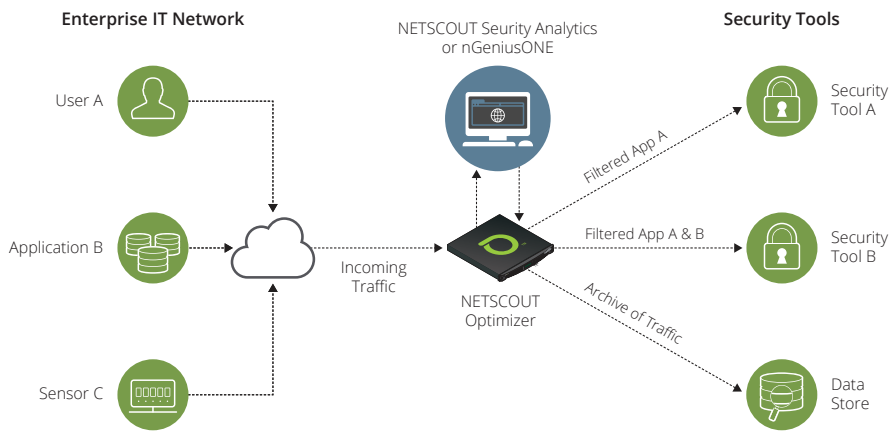


Figure 1: Traffic shaping and conditioning with NETSCOUT CyberOptimizer.

Packet Optimization Technology

As part of NETSCOUT’s smart data solution, CyberOptimizer allows you to streamline and optimize your monitoring and security infrastructure. Available as a software module, CyberOptimizer provides the industry’s only “software-first” solution for intelligent traffic optimization and retrieval.

As shown in Figure 1, NETSCOUT CyberOptimizer takes in a copy of all network traffic, including IP tunneled connections, before forwarding desired traffic to the security tools. CyberOptimizer allows easy and quick configuration of filters and other features, so that each tool receives exactly what it needs, and nothing more.

By removing duplicated or encrypted traffic, for example, you can reduce the load on the monitoring systems by up to 50 percent. At the same time, all packets, including the discarded ones, can be stored in the CyberOptimizer appliances and exported on demand for future analysis, should further forensic investigation be required.

ASI+ for Intelligent Deep Packet Capture and Analysis

InfiniStreamNG and CyberStream host ASI – a groundbreaking technology that generates highly scalable meta-data for comprehensive views of service, network, application, and server performance across complex multi-tier, multi-domain service delivery environments. Traffic can be archived with several archive options and exported on demand for detailed analysis.

NETSCOUT provides its patented Adaptive Session Trace (AST) technology, a proprietary compression technology, that reduces the data captured in packets before storing them, to retain only information that is required for detailed analysis.

Packet Optimization: Features & Benefits

Feature	Description/Benefit
Smart Application Filtering	<ul style="list-style-type: none"> • Layer 7 Stateful Inspection • Over 300 Predefined applications • Define new and custom applications
High-performance Packet Archive	<ul style="list-style-type: none"> • Adaptive Session Trace (AST) technology for optimized, high-fidelity packet archive • Store some (or all) of packets, for later export
Packet Export and Drilldown	<ul style="list-style-type: none"> • Rich, contextual search capabilities by date and time, IP, and applications • Packet retrieval, export in packets (PCAP) and NetFlow with enrichments • Packet drill downs with decoder for inspection of packets, connections and sessions before export
Heuristics-based Encrypted Traffic Filtering	<ul style="list-style-type: none"> • Identify encrypted traffic on any port using heuristic methods to remove encrypted flows or slice packets as needed
NetFlow Generation	<ul style="list-style-type: none"> • Generates NetFlow versions v5, v9 and IPFIX • Configurable active timer • Exports to up to four (4) NetFlow destination collectors • Detail Flow statistics
IP Tunnel Termination	<ul style="list-style-type: none"> • Terminates GRE tunneled traffic (e.g. NVGRE, ERSPAN) and forwards packets to tools • Combines tunnel termination with protocol header stripping/ de-encapsulation
Packet De-duplication	<ul style="list-style-type: none"> • De-duplication based on L2 only, L3 only, or L2 & L3 • Inner or outer VLAN headers • IP header fields • De-duplication statistics
Pre-configured Header Stripping	<ul style="list-style-type: none"> • Remove up to seven (7) MPLS labels • Remove GRE, L2GRE/NVGRE, and ERSPAN headers • Cisco Fabric Path • TRILL • VLAN • VN-TAG • User-defined header stripping
Slicing and Masking	<ul style="list-style-type: none"> • Conditional packet content slicing at defined offset • Conditional payload masking at defined offset

Ordering Information

SKU	Description
918P0L	NETSCOUT CyberOptimizer: One software module per InfiniStreamNG or CyberStream system



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NETSCOUT offers sales, support, and services in over 32 countries. Global addresses, and international numbers are listed on the NETSCOUT website at: www.netscout.com/company/contact-us