



# NetDetector®

Comprehensive and Actionable Solution for Securing Networks

DATASHEET

## Features & Benefits

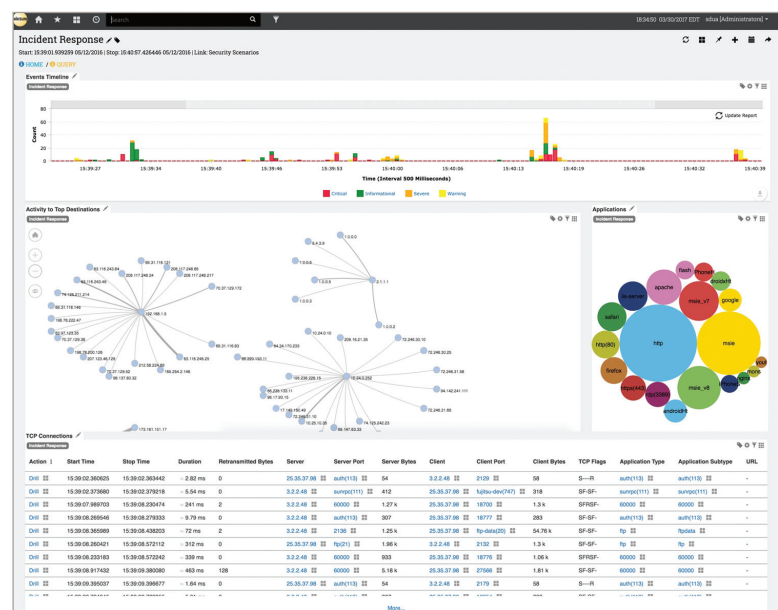
- » *Lossless full packet capture (FPC): known for not dropping packets; chosen by the U.S. Government Department of Defense (DoD) for FPC up to and exceeding 100 Gbps system throughput*
- » *Forensics: Advanced analytics for granular forensic analysis, including Application Reconstruction and artifact extraction*
- » *Threat Intelligence: Replace manual investigation processes with automated proactive discovery*
- » *IDS: Integrated signature detection with retrospective analysis*
- » *Anomaly Detection: detect anomalous traffic patterns such as covert channels or port scans*
- » *Application Recognition: Classify and analyze many applications based on content*
- » *Geo IP analytics and alerting: Upload custom GeoIP mappings*
- » *Detailed Analytics and Alerts for DNS and other protocols*
- » *Intuitive and powerful UI: “google-like” interface for actionable intelligence; Ingest, correlate and search a wide variety of data for Indicators of Compromise*
- » *Ad-hoc and scheduled reporting on multiple timescales*
- » *Support for lawful intercept*
- » *Plug-and-play device with intuitive web-based interface & Role-based Access Control (RBAC)*
- » *Seamless integration with NIKSUN NetOmni for network-wide monitoring*

## Challenge

The threat of a catastrophic cyber attack is real. Insider threats, zero-day exploits, malware, advanced persistent threats (APTs), and other cyber attacks are now occurring on an unprecedented scale with extraordinary sophistication. Because security threats are becoming more damaging and difficult to foresee, forestall and recover from, it is essential to maintain continuous visibility into networks and use advanced forensic analysis to thwart attacks.

## Solution

NIKSUN® NetDetector® is a full-featured appliance for network security monitoring built on NIKSUN's award-winning NikOS architecture. It is the only security monitoring appliance that integrates signature-based IDS functionality with statistical anomaly detection, analytics and deep forensics with full-application reconstruction and packet level decodes. Recognized as the industry's best security monitoring and forensics appliance to safeguard against increasingly sophisticated cyber attacks. Users are informed of security breaches and attacks as they occur and can automatically initiate interdiction actions to prevent the malicious traffic from entering the network. Users can quickly answer critical questions such as how a breach occurred, what data was exfiltrated, what was compromised, who was affected, and what corrective measures need to be initiated.



Security Overview Report

## Dynamic Application Recognition and Plug-ins

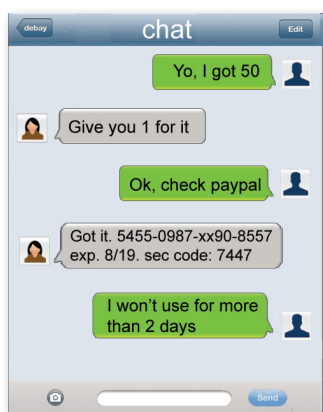
NetDetector further improves modularity and scalability by using the Dynamic Application Recognition (DAR) mechanism and plug-in framework for network traffic recognition and processing. Port-based or TCP-based classification methods are insufficient to accurately identify the different types of traffic. The DAR recognition mechanism uniquely recognizes applications using signatures based on the payload as well as header information, providing the ability to identify all rogue applications and malware.

## Integrated Anomaly and Signature-based IDS

NIKSUN NikOS Everest NetDetector offers an integrated anomaly and signature-based IDS solution for fast and accurate detection of intrusions and zero-day attacks. The anomaly-based detection utilizes user-defined and threshold-based anomalies. Apart from guarding proactively against new threats, integrated detection capabilities can be used retroactively on already captured traffic to identify existing victims of cyber attacks.

## Application and Session Reconstruction

The application and session reconstruction feature provides the deepest forensics with hundreds of types of metadata. A network security analyst keen on quickly parsing through terabytes of data can utilize the new GUI in NikOS Everest for both fast reconstruction and in-depth forensics. Full reconstruction of DNS protocol exchanges comes standard with the NetDetector. This enables users to quickly and easily detect interactions with blacklisted DNS servers, which is often a precursor to sophisticated cyber attacks. It also provides faster tracing of occurrences of DNS spoofing or DNS Denial of Service attacks.



Chat Application Reconstruction

## Technical Information

**Network Interfaces Supported (Full-duplex, Half-duplex):** 1GigE (copper/fiber), 10GigE (fiber) or 20/40/60/80/100GigE (fiber)

**Protocols Supported:** TCP, UDP, SCTP, IPv4, IPv6, fragmented IP, IEEE 802.3 (Ethernet), MPLS, VLAN (ISI, 802.1q and stacked 802.1q), DNS, ISO8583, GTP, SIP, CDMA 2000, RADIUS, Diameter and many more.

**Applications Reconstructed:** Several hundred, including voice, video, web, FTP file transfers, chats, email, images, NetBIOS, peer-to-peer, IRC, DNS, wireless (LTE, CDMA 2000, IMS), and desktop applications (Microsoft, Adobe, etc.)

**Form Factors:** A variety of 1U, 2U and 4U+ form factors are available. Internal storage scales to tens of terabytes. Unlimited external storage options are available.

**Integration: Authentication** - TACACS+, RADIUS, LDAP, Active Directory, and CAC. All NIKSUN products integrate with NIKSUN NetOmni™ Full Suite for enterprise-wide data aggregation, reporting and visualization.

Interested in learning more?

For more information, please visit us online at [niksun.com](http://niksun.com).



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