



# NetXperts™

## Customizable expert analysis and incident reporting

DATASHEET

### Features & Benefits

- » *Fault management, intrusion detection, policy management, interactive application benchmarking & analysis, and more*
- » *Integrated and meaningful views of network statistics*
- » *Minimizes cost for disaster recovery from network performance and security incidents*
- » *Packet analysis and decoding (700+ protocol decodes) with the NIKSUN Advanced Packet Viewer*
- » *Full packet decode allows in-depth analysis at the packet level*
- » *Scalable and intelligent Xperts locate and diagnose SLA/QoS, and security issues*
- » *Schedule, save, retrieve and export analysis reports*
- » *Add, print, email or export troubleshooting results in preferred report formats and use for incident reporting and easy trouble-ticketing*
- » *Web-driven intuitive user interface*

NIKSUN® NetXperts is an optional module for NIKSUN appliance and enterprise platforms that delivers non-intrusive analysis and troubleshooting expertise. NetXperts assists in diagnosing the causes of performance degradation, benchmarking interactive applications before deployment, identifying usage, analyzing regulatory or corporate policy violations, reporting on network and application security details, and more. The NetXpert solution is a library of domain specific experts that offer a large number of scenarios suitable for a variety of environments, facilitating automated root-cause analysis. NetXperts' reporting capability provides a clear and concise picture of analysis results.

### Automated Analysis

NetXperts' extensible framework provides customizable "Xperts" to automatically and rapidly analyze performance and security problems.

NIKSUN appliances record data at line rates and mine information for meaningful statistics that support real-time analysis and visualization of network traffic. NetXperts leverage this information to automate analysis of network performance and security events. These Xperts also list possible causes of detectable anomalies and recommends steps needed to resolve them, thereby saving troubleshooting time, increasing employee productivity, and reducing the cost of networking expertise.

### Customizable Xperts Library

The NIKSUN Xperts library automates analysis for most security and performance incidents. New Xperts are continuously added to the library to meet specific customer needs. Users can create their own customized analysis formulas for inclusion in their own custom-created Xperts.

A few examples of existing Xperts are shown below:

#### **Performance Xperts:**

- » **Application Analysis Xperts** - profile and report on various applications such as HTTP, SMTP, FIX, ISO 8583, Oracle, Citrix, P2P, etc.
- » **TCP Flow Xperts** - detect performance issues with TCP flows, refused, dropped and timed-out connections for any servers and applications
- » **Application Index Xpert** - displays a score reflecting overall user satisfaction with the response time of applications
- » **Zero-Window Analysis Xpert** - diagnoses TCP connections with zero window size advertisements

- » **Delay Through Devices Xpert** - provides the delay measurement for the same flow passing through the firewall, proxy or NAT
- » **Multi-hop Performance Summary Xpert** - for tracking over multiple links
- » **FIX Xperts** - measure trade-fill, replace, cancel and acknowledgement times of financial applications
- » **ISO 8583 Xperts** - measure credit card transaction rates and authorization response time
- » **Source Quench Xpert** - detects instances of host/gateway congestion based on ICMP source quench messages

**Security Xperts:**

- » **Asymmetric Flows Xpert** - identifies flows with one-sided conversations
- » **NAT Xperts** - correlate network flows and packets over multiple links to determine the presence of NAT and measure latency
- » **OS Detection Xpert** - provides passive fingerprinting on source/destination addresses to identify the operating system on various machines
- » **Connection/Host/Application Difference Xperts** - detail data differences between connections/hosts/applications
- » **Host Activity Xpert** - identifies the number of hosts a source interacts with, detecting host scanning (drill-down on this Xpert identifies actual applications on the host that were accessed by a source)

## Technical Information

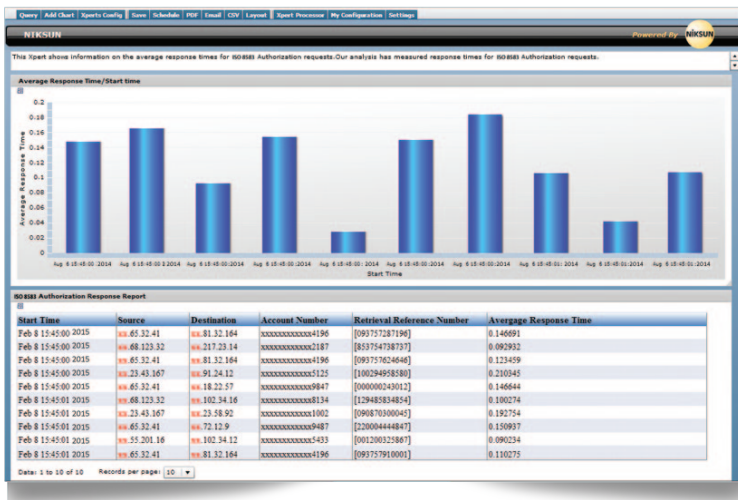
**Protocols Supported:** TCP, UDP, SCTP, IPv4, IPv6, fragmented IP, IEEE 802.3 (Ethernet), Ethernet MPLS, VLAN (ISL, IEEE 802.1q and stacked 802.1q), DNS, ISO8583, FIX, GTP, SIP, CDMA2000, RADIUS, Diameter and many more.

**Integration:** *Authentication* - TACACS+, RADIUS, LDAP and Active Directory.

**Package Availability:** NetXperts is available as an optional package on NIKSUN NetVCR®, NetDetector®, NetDetectorLive™ and NetBlackBox® Pro.

Interested in learning more?

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



NetXperts ISO 8583 Authorization Response Xpert



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