NetTradeWatch™

Monitoring high frequency trading networks

Features & Benefits

» *Support for a wide variety of Market Data related protocols including but not limited to, CQS, ARCA, ITCH, UTO, BATS, CTS, ICE, BROKERTEC, OPENBOOK, CME, TMX, UQDF, FIX, TREP (RRCP, RRMP, RSSL), BGP, IGMP, PIM, etc.*

» *Sustains competitive advantage through complete visibility into trading network infrastructures, market data ticks, and execution*

» *Real-time alerts on critical transaction information, such as Exchange outliers, latencies, microbursts, and packet loss*

» *Rich Executive dashboards and comprehensive reports for automated and optimized workflows*

» *Facilitates intelligent trading decisions by insight on the timeliness of market data information received*

» *Analysis of multicast market data as well as trade transactions*

» *Independent and long-term storage of accurately timestamped transactions to the nanosecond level, enabling auditing, trending, and planning*

» *A single platform designed for the most demanding trading networks - supporting data rates exceeding 100 Gbps*

Financial market feeds, trading infrastructures, and investment banks have a unique set of monitoring standards in an already highly dynamic and complex environment. Not only do they interact with and employ some of the world's most demanding users, but issues stemming from trading applications have the potential to develop into the wins or losses of millions of dollars. So, when a transaction is delayed or lost, it is critical to know what went wrong and how it can be prevented from reoccurring. Time is the key competitive differentiator in high-speed trading - milliseconds can lead to either monumental success or abysmal failure.

The profitability of every organization is intrinsically linked to the integrity of its network, making infrastructure monitoring vital to its business success.

Finally, a solution that WORKS

With out-of-the-box functionality and easy-to-customize dashboards, NetTradeWatch provides end-to-end visibility into the financial network environments like no other solution.

Zero	100%	Single
Packet Loss	Accurate Decoding	Click Correlation

Best in class Market Data Quality Monitoring solution

NIKSUN® NetTradeWatch analyzes global high-speed Market Data feeds in real-time and goes well beyond traditional solutions that detect multicast gaps and present basic analytics. Using ML algorithms at play, it performs deep analysis of feed behavior and helps you locate various outliers that define the quality of the incoming feed data.

Market Data Analysis presents a crucial analysis of infrastructure traffic, enabling network infrastructure teams to proactively gain actionable details regarding latency, data loss, and overall behavior of the feeds. Additionally, NIKSUN Market Data Analysis continuously monitors the Market Data Distribution from third-party vendors such as Thomson Reuters to detect and alert on gaps, sequence loss, retransmits, and abnormally high traffic volumes over microsecond timeframes.
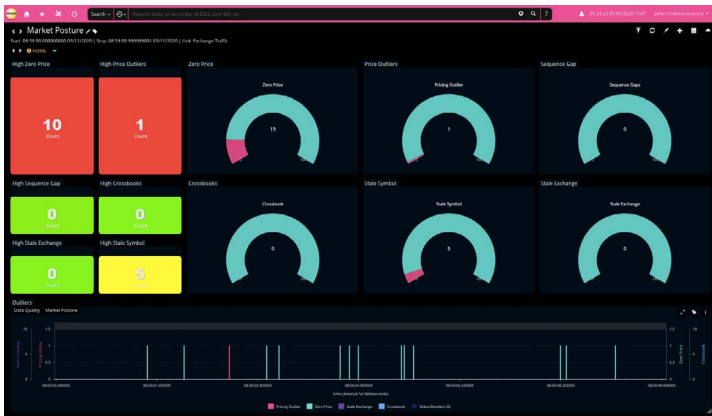
Complete and pin-point accuracy report

With independently tested lossless packet capture ability, NetTradeWatch generates reports that are complete, accurate, and represent actionable intelligence. These reports will always tell the complete story - not just parts of it.

Trade Network Performance Monitoring

Get every detail regarding high speed trade transactions and associated market data feeds for complete insight into high transaction environments.

NIKSUN NetTradeWatch is a tick-to-trade data monitoring appliance that is specifically software engineered to address the needs of highly dynamic and complex trading environments. NetTradeWatch combines the critical capabilities of multicast data monitoring, determination of data quality, and deep analytics related to transactions for 100% visibility into the financial network environments, making it the solution of choice in a niche market.

With its sustained competitive advantage, NetTradeWatch delivers the invaluable ability to analyze, report, and troubleshoot market data feeds, its distribution and trade transactions. The result: end-to-end performance monitoring from trade execution to real-time exchange with the ability to easily zoom in on packet level details of interest.

Actionable application level analytics for exchange multicast traffic

Complete Transaction Analysis

Correlate application layer analytics with network statistics for fast and accurate detection of bottlenecks and other causes of latency.

NetTradeWatch supports a variety of feed protocols from global markets. Paired with best-in-class NIKSUN hardware, market data transactions are analyzed by NetTradeWatch from tick-to-trade.

Since NetTradeWatch is designed as a platform from the ground up, it is very easy to introduce and develop support for new market feeds, trading protocols, or even custom feeds and protocols specific to your infrastructure. Many NIKSUN customers have successfully customized the solution to address concerns unique to their environment.

Technical Information

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

» *Protocols Supported - CQS, ARCA, ITCH, UTO, BATS, CTS, ICE, BROKERTEC, OPENBOOK, CME, TMX, UQDF, FIX, TREP (RRCP, RRMP, RSSL), BGP, IGMP, PIM, etc. and many more from global markets.*

» *Form Factors - A variety of 1U, 2U, 3U, 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.*

"NIKSUN's unique and customized financial data monitoring solutions enable us to gain a holistic view of our infrastructure, from end-to-end. The ability to capture, analyze, alert, and store all metadata allows us to respond faster and to be proactive in reducing issues, removing unused circuits detected by NIKSUN, and optimizing our resources."

- A Financial Institution

Interested in learning more?

For more information, please visit us online at *niksun.com*.