

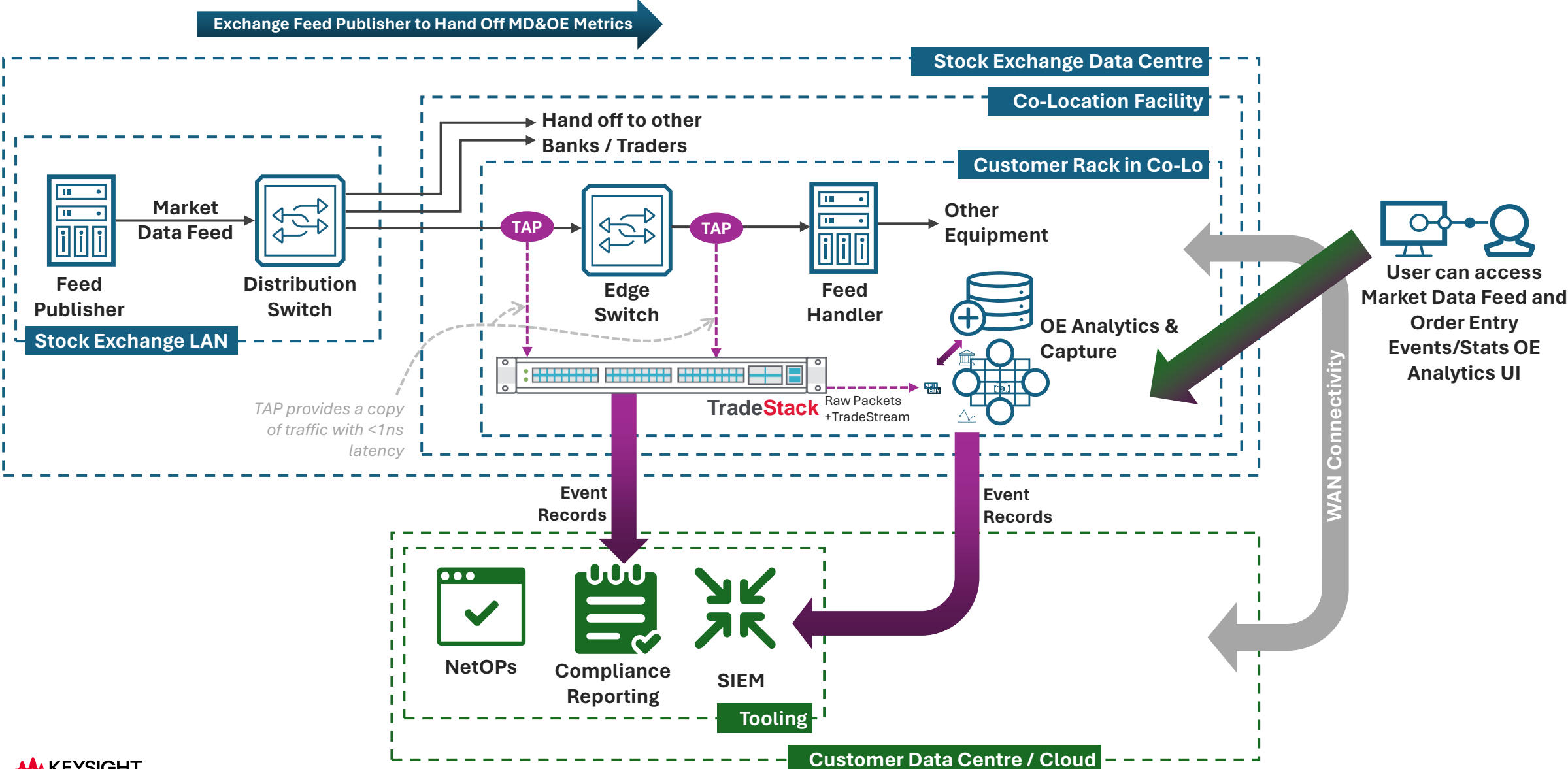


Order Entry Analytics on a Tap Aggregator

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May 2024

Market Data & Trading Analytics Deployment



Keysight Tap Aggregators: TradeStack



Vision400

TradeStack (v400) Feature Suite

NetStack

PacketStack+ Per-port timestamping

1U Support front-panel 24xSFP56 and 16xQSFP-DD

10G, 25G, 40G, 50G, 100G, 200G, 400G support

NTP, PTP, & PPS with +/-30ns discipline

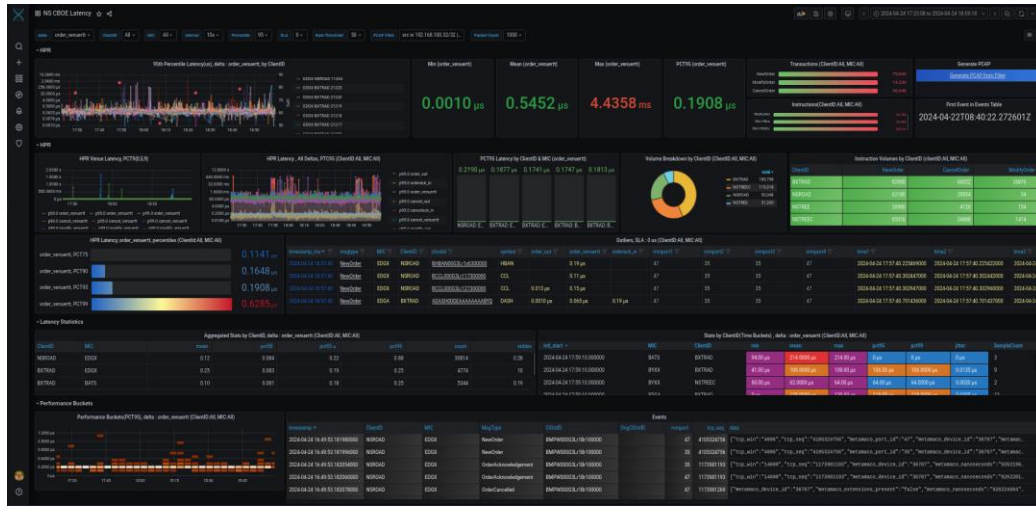
400G Market Data Analytics Capacity

8192 Max Mcst Groups simultaneously

- TradeStack is an FPGA based solution which can process real time financial market data - the only way to prove you don't miss a packet.
- Core Functions
 - Multicast Gap Detection
 - Microburst Detection
 - Feed & Channel Health Monitoring
 - Latency Analytics
- Alerting, Monitoring, and Telemetry Data is available on local event log, Syslog, SNMP, and Keysight TradeStream – a proprietary observability feed similar to netflow for financial market data.

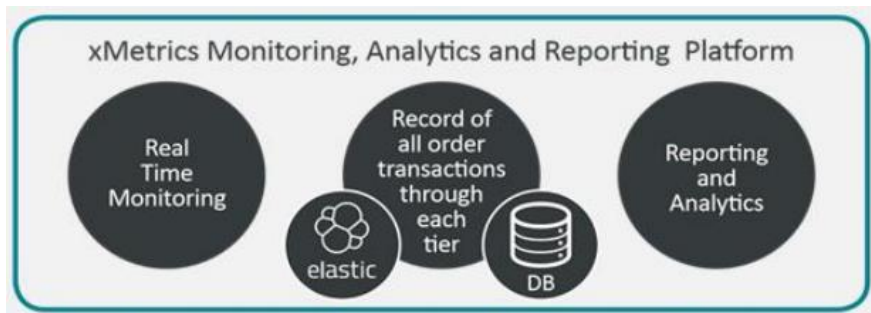
First Tap Aggregator to have Order Analytics embedded as a standard option – available summer 2024

OE Analytics: xMetrics by InstrumentiX



- Powerful Dashboard, multi-tenant UI
- Independent Flow Monitoring & Traffic Decode
- Network and Application Latency Measurement
- Execution Performance Monitoring
- Tic-To-Trade and Order Execution Real-time Monitoring
- Transactional and Event based track, alert, and store across all tiers and asset classes.
- End to end trading performance monitoring, from buy-side, sell-side, maker, broker or fund.
- Data transformation and enrichment in real time, through the InstrumentiX Mutations Framework built into xMetric: fully programmable, into the instrumentation path using Python – the language of Data Science, and C++.

First OE analytics application to be embedded as a standard option on L3 Packet Broker – available Summer 2024



OE Apps...

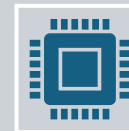
Why not just put them on the box?

Intelligent Analytics delivered faster and smarter.

Bring full spectrum business monitoring trading stack to any point of the physical network.



Integration of 3rd party applications: InstrumentiX Order Entry Analytics (Q32024)



Keysight's TradeStack leverages advanced Network Packet Brokers, V400, to provide precise, FPGA-based real-time metrics for market data integrity and traffic analysis.



The integration with **xMetrics from InstrumentX** offers exceptional packet brokering capabilities on a single platform and effective correlation of business events across the distributed trading plant.

Name	Build	Netservice API	Status	Access Control	About
xMetrics	2.0.0-1	2.0	ACTIVE		

Key Benefits

Integrated FPGA based market data analytics & softcore OE Analytics:

- Tap once to single device
- Retain L3 Tap/Agg functions
- End-to-End Market Data and Trade Flow Analysis
- Real-Time Market Data Integrity & Business Analytics
- Real-Time Reporting across ubiquitous mediums
- Find issues that enhance the triage issues faster with the body of proof of what is on the wire, ensuring management of P&L.



Thank you, and we look forward to
seeing you at our table.

