

ANNOUNCEMENT

21 September 2022

instrumentiX
the evolution of flow monitoring

FMADIO
10G 40G 100G PACKET CAPTURE

InstrumentiX enters into partnership with FMADIO

We are excited to announce the availability of our 100G Analytics platform, the x-100, made possible due to our partnership with the world's leading packet capture vendor, FMADIO.

The platform boasts an FPGA-backed sustained capture rate of 100Gbps with a burst capture rate of 200Gbps and 3.2ns-resolution hardware timestamping resulting in lossless capture of 148.88 million packets a second; on the top, our xMetrics



Flow Monitoring solution delivers the same rich, realtime analytics our customers have come to rely on to expose the performance and behaviour of their highly-distributed, low latency trading and market data platforms. The analytics function is isolated from the capture function, with one or more discrete xMetrics instances running as CPU-isolated LXC containers on the FMADIO host; this ensures that our clients can have full confidence in both the traffic being captured, and the analytics data being generated, as neither function interferes with the other. Also available in both 10G and 40G variants in both 1U and 2U form factors, the integration of these two market-leading solutions into a single platform offers both the most cost-conscious and the most feature-demanding clients a solution unmatched by any competing vendor. Key features of the analytics function are: multi-hop, multi-protocol latency monitoring, market data monitoring - including gap detection- and traffic measurement, with real time alerting. In addition, the platform can decode and persist any and all orders, fills, quotes or ticks and, backed by our easy-to-use APIs, can provide clients with an audit trail of their trading activities suitable for compliance and regulatory use cases. The platform delivers true multi-tenancy with complete isolation of analytics data between clients or departments, thus maintaining chinese walls within capital markets firms whilst also providing service providers with the level of client segregation they have long desired. Rich, fully featured collections of dashboards can be providing on both a per-client and shared basis, allowing our clients to offer their own customers self-service analytics, freeing our clients up to concentrate on their day jobs.

Features (Packet Capture)

- 100Gbps sustained 24/7 packet capture
- 200Gbps Burst Packet Capture
- x2 QSFP28 Ports with SR4/LR4/CX4 and FEC support
- 200Gbps line rate packet generator
- 16-256TB RAID5 storage
- Hardware Timestamping
- Pre Capture Filtering & Packet Slicing
- Inline Packet Capture
- Simple easy to use HTML GUI
- Full scriptable JSON REST API

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Features (Analytics)

- A single pane of glass to monitor Execution, Market Data, Infrastructure and Network performance
- Fully modular software solution that can be deployed as 'middleware'
- Hugely scalable and can be deployed into environments in a way that historically, would have been far too complex or expensive
- Can be rapidly integrated with and consume data from legacy solutions whilst still harnessing the full power of xMetrics
- Highly Powerful Correlation & Root Cause Analysis, delivering against use cases that are impossible with legacy solutions
- Proactive monitoring and fully customisable multi-factor adaptive alerting
- Unique "Mutations Framework" allows User-Defined Functions(UDFs) to be inserted directly into the instrumentation path
- All data available via multiple interfaces including JDBC, Elastic APIs, Kafka topics and native APIs
- True multi-tenanted solution maintaining Chinese walls and allow for self-service analytics for our customer's own clients
- Fully Managed service that removes the pain from Flow Monitoring

To find out more about the x-100 or our xMetrics Flow Monitoring & Analytics platform please contact us at:

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