![Corvil]

SOLUTION SHEET

CORVIL INTELLIGENCE HUB
Business Intelligence for Electronic Trading

More Data, Less Insight in an Increasingly Competitive Trading Landscape

In today's highly competitive trading business environment, those who can continually improve order execution and proactively mitigate intraday risks have an advantage. This demands the need for increased transparency across order lifecycles and desk/client behaviors as well as rigorous data-driven insight to adapt trading decisions and improve outcomes and risk positions.

While operations teams often have a wealth of raw data related to electronic messages and infrastructure performance, they may not have the tools, expertise, context or time to deliver insight to the business.

Extracting meaningful, intuitive insight from the high-speed river of data contained in electronic trading flows has proven to be a challenge as firms struggle to:

- Identify, acquire, and process rich, accurate sources of data at scale

- Correlate business outcomes, customer experience and infrastructure performance

- Secure the triumvirate of market structure domain expertise, data analytics technical knowledge, and data science expertise needed to deliver actionable intelligence

- Effectively employ AI and machine learning technologies

- Visualize information in a rapidly consumable manner to diverse stakeholders

HIGHLIGHTS

Faster, broader business intelligence to optimize trading business

Integrated data analytics stack optimized for trading insights

Streamlined implementation lowers TCO

Easy data exploration, visualization, and analysis

Seamless integration with existing streaming analytics infrastructure

Software solution deployable on hardware or in AWS

Anomaly detection powered by machine learning and neural networks

Predictive alerts without the noise

USE CASES

Self-service business intelligence

Trading client support

Real-time trade operations surveillance

Behavioral baselining and alerts

Predictive Alerts of End-of-Day Risk

Intraday, firm-wide OTR compliance and risk management

Forensic audit-trail of order messages

Trade plant security (future)

Rapid Business Intelligence to Improve Trading Businesses...without Big Data Costs or Timelines

The Corvil Intelligence Hub delivers to Operations and Business Users actionable insight to improve the performance, operations, risk, and security of electronic trading businesses.

Employing machine learning for advanced anomaly detection and enabling multi-dimensional analysis of the business, how clients experience that business, and how the underlying technology is performing in support that business, Intelligence Hub empowers business, compliance, and operational stakeholders with rapid access to:

- High quality information — delivered the way they want to use it

- Intuitive analytics and visualizations — to find the answers they need

- Intelligence alerting — to tell them when conditions are changing

Corvil Intelligence Hub is a scalable, integrated analytics solution that transforms streaming operational wire data from Corvil appliances into a resource for the wider business and technology teams to effectively access and leverage information.

Key Capabilities

Open, scalable, resilient platform

REST APIs enable easy data extraction. Clustered technology provides resiliency and recovery from outage. Easily scalable by adding nodes to accommodate more data or longer data retention times.

Fast implementation

An integrated software stack that deploys quickly on prem or in AWS, that seamlessly ingests data streams from Corvil appliances, and includes trading analytics, dashboards and reports enabling users to focus value creation instead of combining multiple data sources.

Intuitive and responsive user experience

Analytics performance is optimized for interactive use and flexible data exploration, slicing, pivoting and correlation, with dozens of visualizations from which to choose. Easy to execute queries, visualize patterns, and see correlations – creating a convenient and productive user experience.

Unique order lifecycle data

Corvil Analytics streams precision-timestamped, granular order lifecycle data, customer experience and infrastructure performance data into Intelligence Hub for long term storage and analysis to enable business, compliance, trade support, and even security teams – without the data preparation and integration effort.

Anomaly detection powered by machine learning

Continually identify anomalies ranging from simple static thresholds, to deviations from baselines detected by behavior modeling, to temporal anomalies detected by a neural network, to predictive analytics.

Intelligent alerting

Detected anomalies are automatically correlated, deduplicated, consolidated and filtered to provide actionable alerts to stakeholders while minimizing noise and alert fatigue. Customizable management policies deliver complete control over alert propagation and workflows.