Rogue traders, market abuse scandals, runaway algorithms, changing regulation—the demands on risk and compliance are ever increasing. In today’s markets, you need to rapidly detect and respond to abusive or erroneous trading.

The answer is Apama.

With Apama, you can monitor and detect rogue algorithms in real-time, check for the manipulation of Over-The-Counter (OTC) markets at the end of the day—and everything in between. Our proven platform enables you to combine real-time and historical data to detect suspicious trading patterns across asset classes and markets.

Gain the flexibility and agility your firm needs to adapt to specialized and evolving regulations while reducing TCO. Deployment is fast. Apama’s out-of-the-box functionality enables you to quickly create tailored monitoring solutions that meet multi-region, multi-asset class and multi-jurisdictional requirements.

**Features**

At the core of the platform is the award-winning Complex Event Processing (CEP) engine—the technology behind 150+ capital market application deployments worldwide in the past 10 years. Platform features include:

- Pre-defined alert scenarios
- Extend out-of-the-box scenarios to meet changing regulatory requirements for:
  - Insider trading
  - Front running
  - Wash trades
  - Price ramping
  - Painting the tape
  - Layering
  - Quote stuffing
  - Order-to-trade ratio monitoring

- Trading volume spike
- Trading price spike
- Spreads and comparisons
- Passive and large orders monitoring
- Market maker monitoring

**Asset classes**

Apama is asset-class-neutral and can spot suspicious behavior in multiple-asset classes and across asset classes, including:

- Equities
- Fixed income
- Hotspot FX®
- FX forwards
- Non-deliverable forwards
- Futures
- Options
- Swaps
- CFDs
- CDS
- Commodities

**Alert & case management**

- Feature-rich tools to triage alerts and manage investigations
- Fully audited workflow
- Comprehensive graphical market replay tools

**Reporting**

- Pre-defined reports to support investigations and manage operational performance
Key Benefits

Evolve with regulations
Adapting to changing regulatory needs is critical. Apama makes it easy to extend and customize your solution by providing tools to manage scenarios quickly and cost-effectively. You won’t need to depend on vendors to extend and update your surveillance solution—often a costly, time-consuming and risky process in an ever-changing regulatory environment.

Accelerate rollout
Unlike in-house solutions, Apama offers out-of-the-box capabilities that can be up and running fast so you can respond to urgent regulatory demands. Leverage our experience and expertise to expedite your deployment through industry-proven surveillance scenarios and integration with data sources across a broad range of capital markets business domains.

Monitor just about anything
Integrate multiple data sources and asset classes, including exchanges traded and OTC, providing a complete surveillance capability. You can also merge and correlate end-of-day data streams with intra-day data streams from any asset class and survey across the combined data set as if it had been available in real-time during the day. Apama’s asset-class agnostic platform can be modified and extended to fit trading patterns in any market.

Fine tune scenario parameters
An overwhelming quantity of alerts and high false positive rates are the two biggest obstacles to efficient market surveillance. Our experience deploying Apama for algorithmic trading puts powerful and comprehensive testing tools in your hands. You can rapidly fine tune and test scenario parameters—delivering more accurate results with less noise.

Do more with less
Increase risk and compliance monitoring even with a constrained IT budget. While point solutions require multiple technologies and vendors to address a full range of risk and compliance challenges, Apama is a multi-purpose platform that’s easily extensible to reduce your TCO. Use Apama to build enterprise-wide risk and compliance capabilities, as needed, to cover risk aggregation, pre-trade risk, anti-money laundering, rogue trader detection and more.

APAMA

Find out how to power up your Digital Enterprise at www.SoftwareAG.com

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