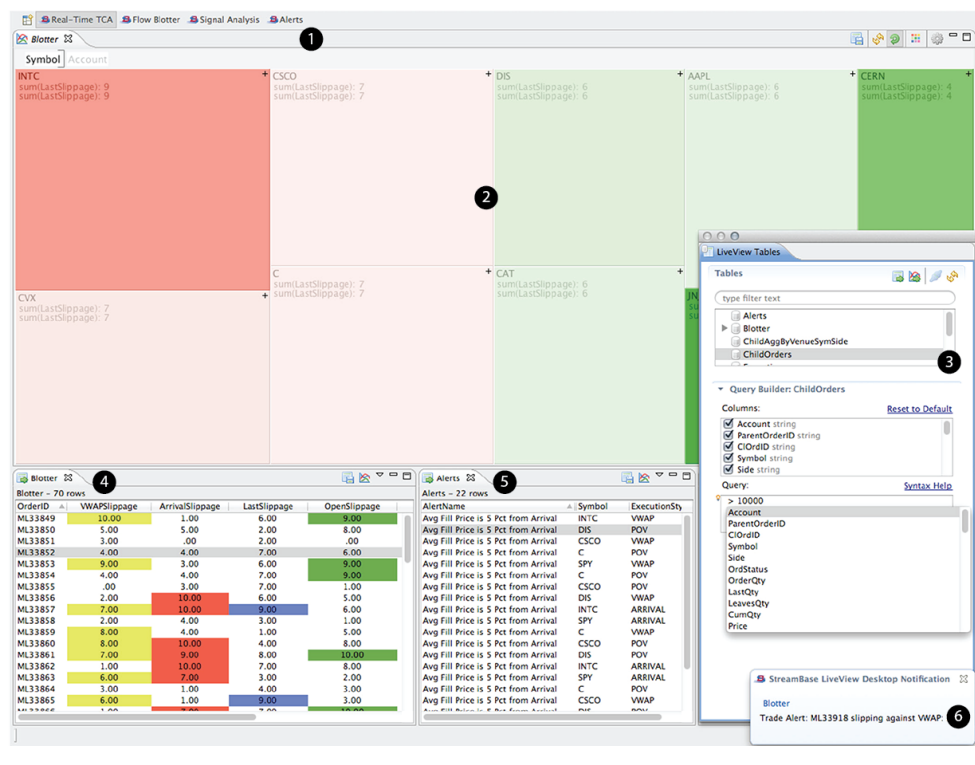# TIBCO StreamBase LiveView

Benefits

- Analyze streaming data in real-time: Immediately determine which data is important for your business.
- Avoid problems: Set up alerts and resolve issues before they become problems.
- Secure enterprise-level performance: Analyze tens of millions of events a day, all delivered with only milliseconds of latency.
- Easily integrate with legacy systems: Comes with a wide range of support for the software and hardware that you already use.

At a Glance

TIBCO StreamBase LiveView® is a real-time analytics platform for live, streaming data. Unlike traditional business intelligence and data warehousing systems, TIBCO StreamBase LiveView is designed to analyze and visualize information in motion, rather than at rest.

The LiveView platform consists of the TIBCO StreamBase LiveView Server, the TIBCO StreamBase LiveView® Desktop, and connectivity to over 150 event data sources, alerting channels, and databases. StreamBase LiveView also supports integration of advanced event-based analytics using TIBCO StreamBase® CEP, the leading event processing platform in the industry, as well as APIs for the development of custom clients.

The StreamBase LiveView Desktop is a BI-style interface enabling users to interact with live data through [1] end-user configurability, [2] real-time graphs, [3] ad-hoc queries, [4] live tables, [5] alerts, and [6] notifications.

How StreamBase LiveView Works

TIBCO StreamBase LiveView Server

The TIBCO StreamBase LiveView Server manages data connectivity, continuous queries, alerts, client connectivity, user authentication, and security.

At the heart of the LiveView Server is the Continuous Query Processor, which processes high-speed streaming data, creates fully materialized active tables, manages ad-hoc queries from the StreamBase LiveView Desktop and custom client user interfaces, and continuously pushes live results as real-time conditions change. The LiveView Server also aggregates and normalizes data, and IT can use StreamBase Studio to enrich streams with event analytics. The LiveView Server manages and delivers real-time alerts and notifications via desktop notifications, email, SMS, chat, and any other connection supported by the StreamBase platform.

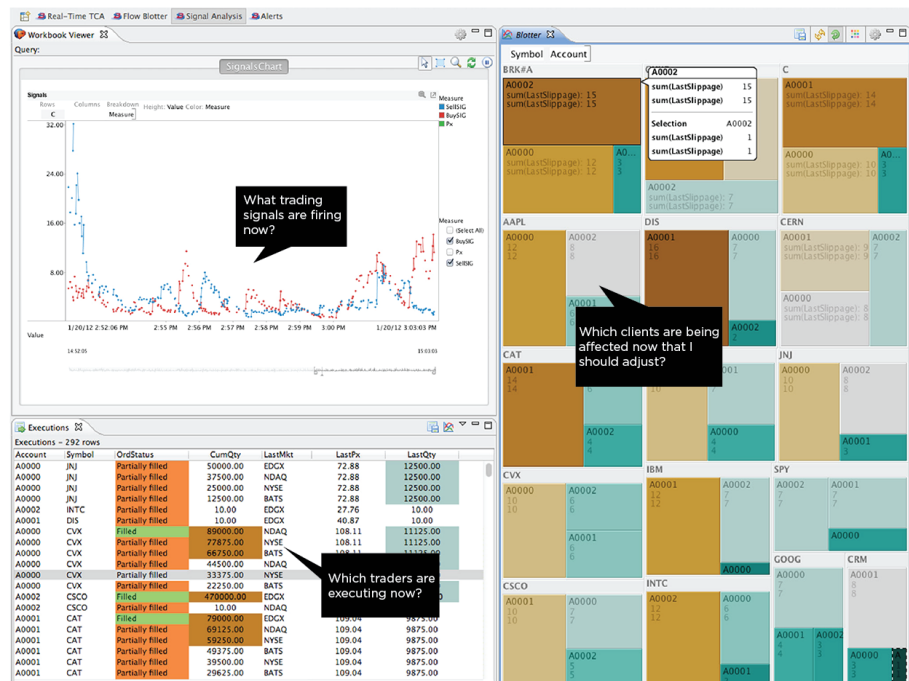### TIBCO StreamBase LiveView Desktop

The TIBCO StreamBase LiveView Desktop is an end-user application providing interaction with live, continuously updating data and queries on tables contained in the LiveView Server. The Desktop is the real-time command center. Users have complete control over its window configuration, formatting, and layout. They can define ad-hoc queries; select, configure, and view charts; and control desktop notifications and alerts.

Alerts and Notifications

TIBCO StreamBase LiveView Alerts are continuously processed and delivered to mobile devices, email, or to a user's desktop – any delivery channel supported by the StreamBase LiveView Server.

Connectivity and APIs

Real-time streaming data is ingested into the StreamBase LiveView platform from over 150 data sources and sinks such as market data providers, databases, and messaging buses. The StreamBase LiveView API allows developers to build custom user interfaces, or HTML5 front ends to the LiveView Server.

Real-time signalling and execution monitoring as seen from within the StreamBase LiveView Desktop.

Platform, Standards, and Security

TIBCO StreamBase LiveView Server

- Continuous query processing
- User authentication and administration
- Server federation
- Logging management
- High availability
- Manageability
- Optimized for multi-core, distributed deployment

TIBCO StreamBase LiveView Desktop

- Ad-hoc query builder
- Live graphs, charts, tables
- Notifications, conditional formatting
- Window layout, organization, design control

Programming APIs and Analytics

- StreamBase Studio
- Java API
- .NET API
- Restful Web Services APIs

Platform Support (LiveView Server)

- Red Hat Enterprise Linux AS 4.0, 5.0, 6.0
- Novell SUSE Linux Enterprise Server 10
- Windows 7 Server

Platform Support (LiveView Desktop)

- Windows XP
- Windows Vista Business
- Windows Server 2003, 2008
- Windows 7

Use Cases

TIBCO StreamBase LiveView can be used to provide real-time analytics in any industry, for any streaming data. Example use cases include:
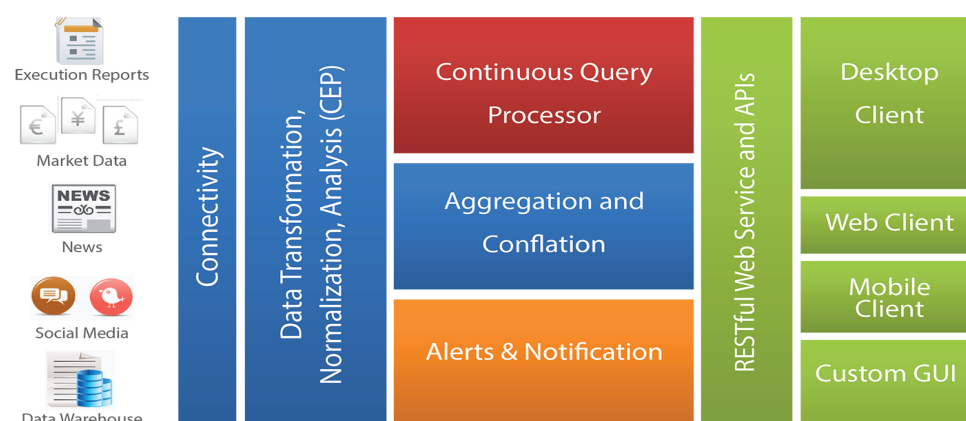
- Trade execution consulting
- Trade risk management
- FX liquidity analysis
- Position and P&L management
- Transaction cost analysis (TCA)
- Infrastructure monitoring
- Surveillance

Case Study

TIBCO StreamBase LiveView is deployed globally at a top tier investment bank for automated trade execution services. The bank's global trading groups use it for live insight into trading workflow generated by over a dozen execution management systems. It helps them manage global risk of these automated trading operations.

Traders, risk managers, and sales use StreamBase LiveView to get a single aggregated view of all trading activity in real time, slice and dice that information interactively, manage real-time risk exposure, and provide proactive client services.

According to the head of equities trading at the bank, "StreamBase LiveView completely changes the way we work. Everything we can automate, we automate. We push all the intelligence into LiveView and have it alert really skilled operators, or let them define their own queries."

The StreamBase LiveView Server manages data connectivity, continuous queries, alerts, client connectivity, user authentication and security.

Platform, Standards, and Security cont.

Connectivity (Samples Provided)

- General messaging
  - TCP/IP, Solace Systems, TIBCO messaging products, 29West, and others
- Historical data
  - JDBC, HP Vertica Analytical Database, ThomsonReuters Velocity Analytics, MySQL, and others
- Static Data
  - CSV files
- Capital Markets: Market Data
  - Thomson Reuters Enterprise Platform for Real-Time, CME, Bloomberg, BM&FBOVESPA, Wombat, Hotspot…
- Capital Markets: Execution
  - QF/J, StreamBase FIX, CameronFIX, CME, Bloomberg…
- Capital Markets: Asset class specific
  - Hotspot, Currenex, GAIN GTX, Deutsche Bank autobahnFX…
- User interface
  - Eclipse RCP, Panopticon, .NET
- Programming Languages
  - Java, C++, .NET, Python
- Analytics Packages
  - MATLAB, QuantLib…

Attributes and Capabilities

Real-Time Analytics for Streaming Data

TIBCO StreamBase LiveView provides a real-time view into your event-based business operations. Real-time analytics and continuous updates are pushed to users in milliseconds, enabling analysis and action. Traditional business intelligence is designed to analyze historical information; StreamBase LiveView is optimized to analyze what's happening now.

Management by Anticipation

Alerts and notifications of business problems and opportunities are delivered to end users in real time as they occur, enabling users to focus their efforts on the most important business events while they still matter.

Built for Big Streaming Data: High Performance, Scalability, and Low Latency

The TIBCO StreamBase LiveView Server is designed for the most demanding enterprise environments – tens of millions of events a day per server, federated deployment, and thousands of continuous, streaming queries – all delivered with just milliseconds of latency.

Drop-In Installation; Self Service Analytics

Using LiveView's 150+ pre-built connectivity options, integration with live data is quick and easy. Once installed, users are given self-service access to live data, and can compose their own ad hoc queries, create alert rules, and interact with live data through highly configurable tables, graphs, drill downs and aggregate views of real-time continuously updating data.

exported27Jan2014