

Business Intelligence Solution Helps Improve Performance Of Equity Aggregation System



Our client is the investment banking arm of a leading US bank, with offices throughout North America and lending facilities across the world. They offer trading and brokerage services; debt and securities underwriting; debt and equity research; and advice on public offerings, leveraged buyouts, and mergers and acquisitions.

Their specialty units focus on prime brokerage, derivatives, and securitization services. Customers include corporations, institutional investors, and government entities.

The Need

Our client had an Equity Aggregation System designed to meet the requirements of Sections 13 and 16 of the US Securities Exchange Act, 1934. The system aggregated and tracked equity positions from domestic data feeds.

Due to new and changing regulations in the US and other countries, they needed to enhance the system to receive and process global data feeds.

The system also was required to comply with global regulations in order to avoid penalties.

Marlabs Solution

Marlabs built a business intelligence (BI) solution that consolidated information on equity positions from all over the world. The new system aggregated data from 20 different feed providers located across various time zones. This called for a standardized data feed supply format that addressed fluctuations in data arrival times from these varied time zones.

To satisfy the filing rules of different securities exchanges, we created a flexible system. Data validation was constantly monitored to ensure 100% accuracy of the system.

After carefully analyzing all client requirements, Marlabs designed a new data model, developed extensive reports and analytics, and undertook unit testing in the development environment. Data was aggregated using Informatica 8 and loaded into an Oracle data warehouse after the Extract, Transform and Load (ETL) process.

Marlabs provided support to move all reports into the production / user acceptance test (UAT) environment. All bugs in the existing system were fixed. The outcome was a more flexible and responsive system that met their changing needs.

Client:

Leading US bank

Technology Platform:

- MicroStrategy 8.0.1
- Oracle 9i
- Informatica 8
- Windows 2000 Server

Benefits

- Complete and accurate aggregation of international equity positions was achieved within the targeted time frame.
- The reporting system helped meet regulatory compliance requirements of the US SEC, New York Stock Exchange (NYSE), NASD, and UK's FSA.
- System response time improved by 20% - 30% since most of the calculation was performed at the ETL level while loading data into the Oracle data warehouse.