



Abstracted Mainframe Data Streamlines Trust and Securities Settlement

BUSINESS BACKGROUND

This leading Global Investment Bank's Trust & Securities Services (TSS) unit provides an extensive range of trust, agency, depository, custody and related services on over U.S. \$5 trillion in debt and equity securities worldwide. It is organized in five globally integrated product groups to ensure that every service is provided by expert, specialist staff.

In addition to offering extensive services, capabilities and expertise to customers, with every transaction TSS expects to exceed customer demands for service delivery as well.

CASE STUDY BACKGROUND

The mainframe system is the primary repository for all securities setup, maintenance, and reporting. Over time, an eco-system of twelve separate applications was built to augment the mainframe capabilities.

The upstream work is primarily setup. Downstream activities include reporting and integration between settlements.

Estimated data volumes in U.S. Operations include: 250,000 transactions per month across multiple systems, 20,000 reports, and 75,000 payments. During peak days of the month, such as the 25th and the 1st, volumes are exceptionally high.

There are 400 data consumers using a .NET client application ("Deal Mgmt System") available from their computer desktop. On average, half of these users do one batch process daily. Fifteen operations people support all setup activities.

THE PROBLEM

The underlying data sources were so complex that TSS operations staff had to maintain the information on the mainframe. The mainframe system was batch-oriented for settlement transactions and reports. The need for constant reconciliation increased the risk of data quality problems.

With the old approach, end users could not directly access the information and it was difficult to extract intra-day/real-time data from the mainframe. The system was just too difficult to work with.

"When we decided we wanted to cut wasted time and resources out of our current securities settlement processes, improving the quality and speed of delivery to key TSS applications, we turned to Composite Software's data virtualization solution."

Project Manager,
Trust and Securities Services,
Leading Global Investment Bank

AT-A-GLANCE

Industry

Global Investment Bank

Business Problem Solved

Need to deliver intra-day transactions against a batch-oriented, legacy mainframe securities settlement system.

Data Integration Patterns

Establish a data abstraction layer to remove the complexity and connectivity issues that are currently obstacles to real-time, self-service settlement transacting.

Composite Software Products

Composite Information Server 4.6

Data Sources

- SAM-based mainframe system
- Oracle Data Mart

Data Consumers

400+ Trust and Securities operations people

Platform

RedHat Linux

OTHER ALTERNATIVES CONSIDERED

At first, a data warehouse solution was proposed. But after some investigation and analysis, this solution was discarded for the following reasons:

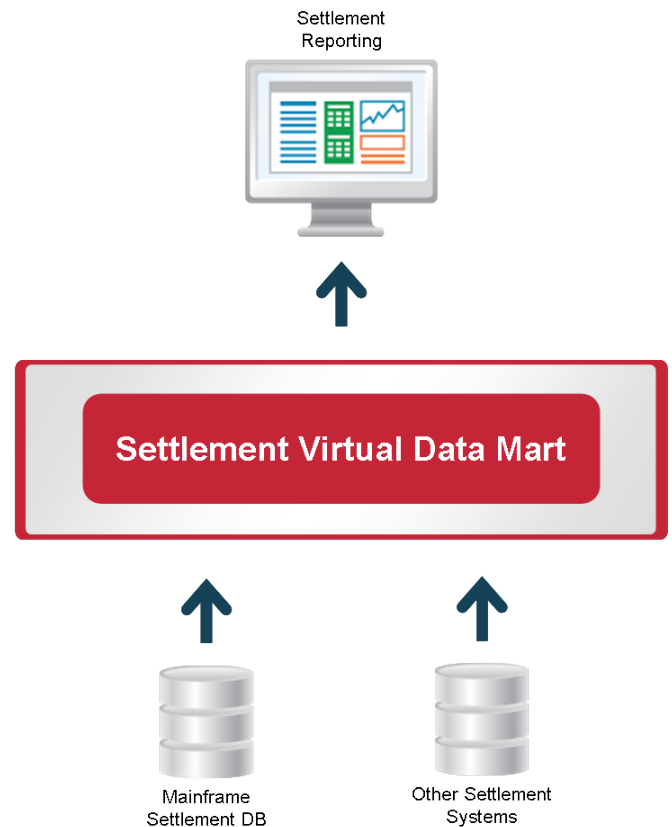
- Reconciliation activities were still be required so some data quality benefits would be lost.
- The development of new ETL scripts took over twice as long as the development of a data virtualization solution.
- The cost of maintaining data warehouses and marts was high, as much as \$40,000 each per year.

THE SOLUTION

The Composite Information Server was selected to provide federated views across multiple data sources, such as the mainframe and the VMS systems. Composite Software's data virtualization approach to data integration enables TSS to more efficiently and effectively leverage valuable data scattered throughout the organization. Composite integrated data from multiple, disparate sources, in a unified, logically virtualized manner for consumption by front-end business solutions including portals, reports, applications, search, and more. The abstraction layer protects the end users from the complexity, reducing the TSS operational steps and improving response time.

The Composite Information Server supports the strategy in several important ways:

1. Caching: Some of the reports have millions of records, and with CIS some data can persist as needed without having to go repeatedly to the underlying data source.
2. Query Performance: For this real-time solution, query processing time delivers the data virtually without affecting performance.
3. Abstraction: Settlement systems increase in variety and complexity without affecting the user experience.



A virtual layer based on the Composite Information Server.

THE RESULT

- 10% reduction in labor cost for the settlement processes in scope
- 150% ROI in 6 months
- Reports delivered in minutes instead of hours
- 50% less time needed to create new report templates and build business rules into existing reports
- 5% data quality improvement