

PORTIA Case Study Synopsis

The following projects highlight different roles Sindex has undertaken for the Portia PMS.

Project Management of Portfolio Management and Predator Trading Systems Conversion

For a \$50 billion manager, Sindex managed the all technical aspects of the implementation of Thomson Financial Software Service's Portia and The MacGregor Group's Predator. This was the first implementation of the client server version of Portia, and best practices established during this project became "standards" implemented by other firms engaging in similar conversions.

Distributed Performance Measurement System

For a \$50 billion manager with 4000 accounts, designed, and implemented a distributed performance measurement dashboard. The client's performance calculation needs outstripped Portia's ability to calculate performance in a timely fashion. The solution implemented used bi-directional Sybase replication between the production Portia database server and a database server dedicated to running Portia performance calculation 24 hours a day. Sindex has advised many clients on implementing similar distributed solutions.

Portia Straight-Through Processing

For several clients, designed and developed the PTK Confirm Matcher, a matching engine that paired DTC confirms with trades in Portia. Due to a proprietary trade-matching algorithm, Confirm Matcher can run through trade matches many times faster than Portia's internal matching engine, while applying more sophisticated business rules to get a higher automatic match rate. The end result was settlement personnel reduced the amount of time spent researching DTC confirm matching exceptions by more than two thirds.

Portia Data Warehouse (DWH) Integration

Involved in all aspects of design, development and support of a distributed DWH architecture through multiple release cycles. The data warehouse provided both start-of-day snapshots for portfolio managers' tactical analysis, and historical archives for both internal and client reporting. The multi-currency data warehouse handled reporting of domestic and international equity and fixed income instruments, as well as, additional views in the portfolio's base currency for non-USD clients.

Data was made universally available via a proprietary user interface that allowed canned and user-customized filters and views of the data. For external clients, report generation was integrated with a contact management database and an accountant's workflow application that allowed report packages to be generated automatically when the portfolios were reconciled.

This data warehouse was implemented on a distributed architecture using high-frequency replication to provide redundancy in the event of server failure, and to balance processing across a multi-server topology.

Load balancing applications queried multiple servers to provide end-users faster response time. The distributed architecture was also leveraged to implement internally developed daily Rate of Return (ROR) calculations and other business calculations at a volume and speed that the portfolio management system could not manage in a stand-alone environment.

Portia-Eagle Integration

Sindex helped the client design its strategy for integration of its Portia installation with Eagle's Pace DWH product. Sindex did needs analysis and data mapping for the client's multiple portfolio management system. Sindex was also responsible for developing the business logic that would pre-calculate data prior to loading the DWH, including realized gain loss, fixed income analytics, amortization, and gross, after-tax, and tax-equivalent performance.