



# Securities Data warehouse

## Case Study

## Description

### Client

The client is one of the leading banks in the world

### Industry Sector

Financial Services (Investment Banking)

### Technology

VC++, VB, COM+, SQL Server as database in the staging area as well as the data warehouse.

The objective was to receive, cleanse, validate and transform securities transaction, positions and accounts data streaming in from 22 locations worldwide and load the data into their Securities Data warehouse. The data was received in 105 different streams originating from diverse systems in the form of text files, MSMQ or MQ Series queues, FTP feeds, etc

### Process

Listener component was used to listen into queues, folders or ftp sites and pick up the data as it was received. The data was stripped of protocol, parsed, and loaded into temporary tables in the staging database. The data was then validated, enriched and loaded into the staging tables. Later it was loaded into the data warehouse. The entire process was controlled by the workflow engine.

Zenith Software Limited (ZSL) responsibility was to configure the source of data to the listener, write custom adapters where the listener did not directly support the incoming protocol, create the mapping data from the input format to the temporary tables and from there to the staging tables and DW tables, write custom hooks where the tool did not support certain format transformations and create workflows for the entire process.

### Development Process

The development model adopted for this was RAD.