



Case Study

Global Clients: ABN Amro Bank | Barclays | Capita | Citigroup | DBS Bank | GE Consumer Finance | HBOS | HDFC Bank | TransUnion | True Credit | UOB Bank | Vodafone | Wausau Financial Systems

Electronic Clearance System

The Client

The client is primarily engaged in Transaction Processing Service for various mutual fund houses. It is the market leader in mutual fund back office segment. The client has now outsourced some of the transaction processing functions (Primarily electronic clearance requests) to Third party service providers (TPSP).

Since the volume of the Electronic clearance requests was increasing consistently, the client formed a new business unit to cater to the functionalities offered by the third party service providers. The Client engaged Saksoft to provide a software solution for the new business unit.

The Requirement

The client manages data for 18 Asset Management Companies (AMC). The preferred mode of payment for the investors is through electronic clearance system (ECS). There was a need to automate this unit. The proposed system should address the following key functionalities.

- Mandate Registration and Customer portfolio maintenance
- Automatic batch process for managing feed files
- Sophisticated reconciliation process



The Solution

The functional requirements were addressed through a system that consisted of the following loosely coupled modules:

Mandate Registration Process

All the data related to mandate registrations are handled by this module. A workflow is created to ensure the data flows through a pre-defined process flow. This module automatically creates and maintains the customer portfolio based on the transactions. A MAKER/CHECKER process is implemented to minimize the data entry errors.

Batch Processes

A set of batch processes are executed to process/generate the feed file that is shared with various AMCs & RBI. This module logs all the actions that can be audited. These modules are completely automated using windows scheduler.

Reconciliation Process

This module is built with the combination of batch processes and user interaction. The primary reconciliation is done by the batch process, which can be reviewed and corrected by the administrative users.

Solution Architecture

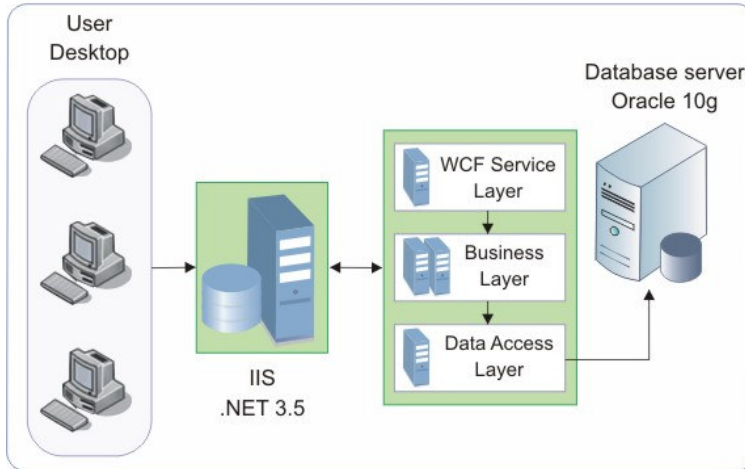
Saksoft suggested and implemented 3-tier client-server architecture using the following technologies.

- Front-end : .NET Win forms (semi-thick layer)
- Business layer : .NET components running with Windows Communication Foundation (WCF)
- Database : Oracle 10g. With Oradirect.NET as a data provider

CMMI Processes ensured effective "project monitoring & control"



PHYSICAL ARCHITECTURE



Inventory of reusable components to reduce project execution time

Advantages

- Vertical and horizontal scalability
- Data caching technique to optimize the performance
- Easy deployment of enhancements without affecting the system availability

Key Benefits

- Productivity of the ECS unit is increased by 100%
- Equipped to handle more volume thus saving the cost (of TPSPs) by 30% approximately.
- Centralized database thus eliminating data scattered in Excel, DBF etc
- High level of Data Accuracy
- Application Scalability –The client is venturing into Insurance segment as well.
- Ease of maintenance

The Result

The solution has provided a wide range of immediate business benefits. Automating some of the process has reduced the data entry which resulted in good productivity. The MAKER/CHECKER concept has minimized the data entry errors and rework. The architecture manages the current volume and highly scalable. The application response time has increased the data entry operator’s productivity which has enabled the new business unit to handle more volume efficiently.

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