

Enterprise Application Integration Practice



CASE STUDY - 1

ONLINE TRANSACTION GATEWAY

Using IBM-MQ middleware Solution



Case Study : OLT Gateway

The Customer

One of the fifth largest American Bank

Business Objectives

The project had the following requirements:-

- ✦ To mediate between heterogeneous environments spanning from mainframe to mid-range systems.
- ✦ To transform the messages from the different front-end applications received in the native format and carry out the posting of the transaction in the accounting application.
- ✦ Corporate customers can avail credit via an online interface
- ✦ In-built Decision Tables to define smart rules on the messages before processing
- ✦ Alert-based failure detection across interfacing systems
- ✦ Online / offline earmarking

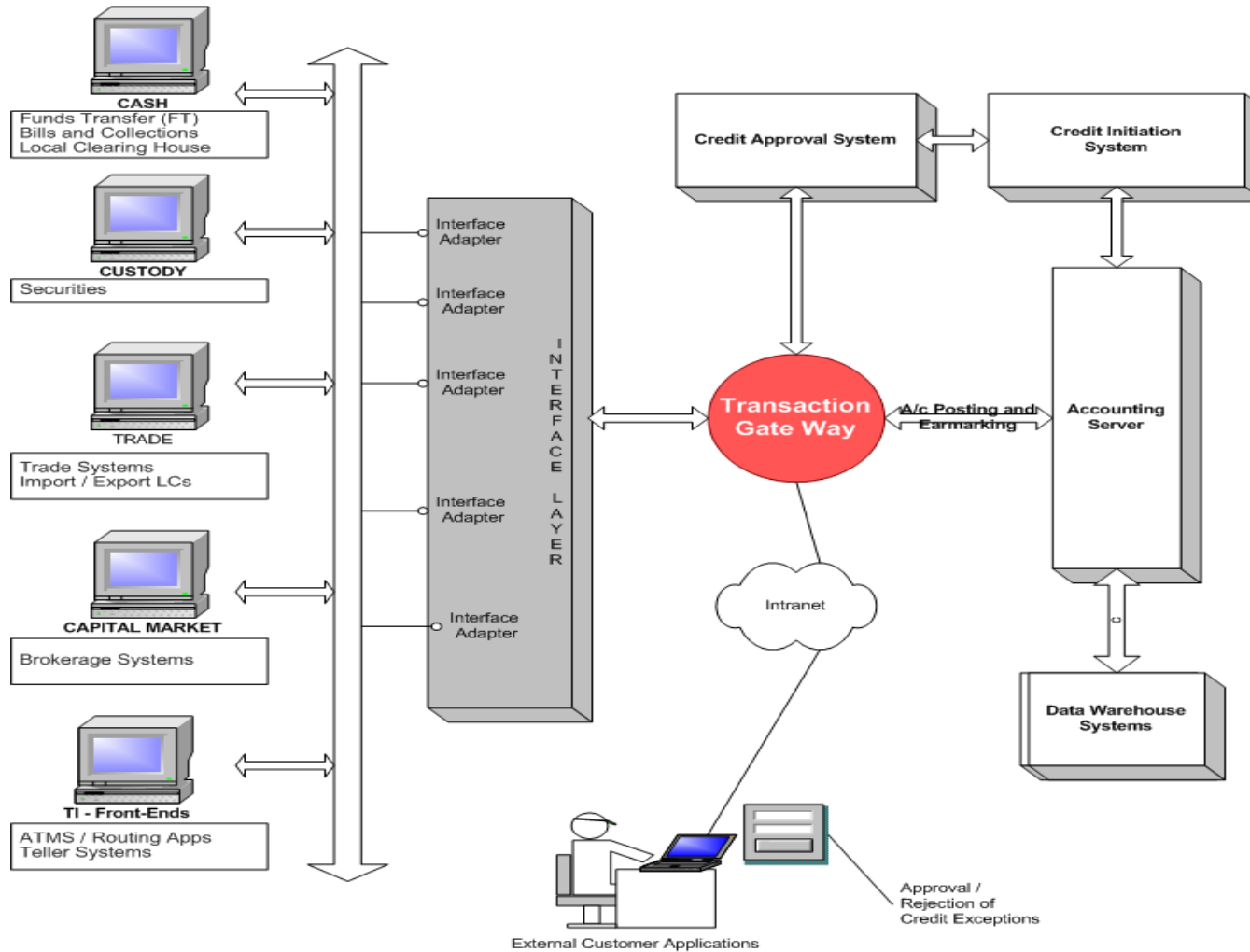
Implementation Highlights

- ✦ All corporate applications integrated in this infrastructure within the span of 8 months.
- ✦ Generic & Extensible MLI was conceived to ensure future needs to be taken care with minimal impact to existing systems.
- ✦ Web based system conceived & provided for business contingency.
- ✦ Integration with Accounting Server to carry out transactional updates from product processors at real-time.
- ✦ Priority messages and synchronous messages handled separately for faster responses.

Key Benefits

- ✦ Credit approvals cycle reduced to one business day from 3 business days earlier.
- ✦ Web based system provided for Manual Earmarking & Offering Ticket approval in case there is a downtime in online systems.
- ✦ Interfaces to external Credit Approval Systems, on-line approval or option to approve credits out-of-the-box
- ✦ Facilitates real-time data availability through data warehouse systems for quick and real-time reports on credit position to corporate customers.
- ✦ Business Logic and Interface logic kept separate for easier maintainability.
- ✦ Very high response time through using multi-threaded features.
- ✦ Support for high volumes of ~ 1 million transactions / day
- ✦ Easily extendable to use technologies like TIBCO and BEA Aqua Logic Service Bus.

Solution Overview



CASE STUDY - 2

MEDIATION & ORCHESTRATION ENABLED WEB SERVICES

Web Services to be orchestrated and mediated via TIBCO



Case Study : e-Delivery Channels

The Customer

One of the fifth largest American Bank

Business Objectives

The project had the following requirements:-

- ✦ To participate in their global initiative of technology and platform standardization.
- ✦ Expose business functionality of the client-server application in form of web services.
- ✦ Design & Build customized e-Delivery Channels to be interfaced with all types of applications on heterogeneous platforms
- ✦ Be able to orchestrate composite services via automated tools or via a custom application.

Implementation Highlights

- ✦ Implemented both the needs of creating Atomic Services and also provided scope for creating composite services using these.
- ✦ Provided the client with a custom-built orchestration module as an interim solution.
- ✦ Applications are exposed as web services mediated with the help of TIBCO-EMS.
- ✦ Applications can board the Enterprise Messaging platform with no change and would be able to mediate with all applications.

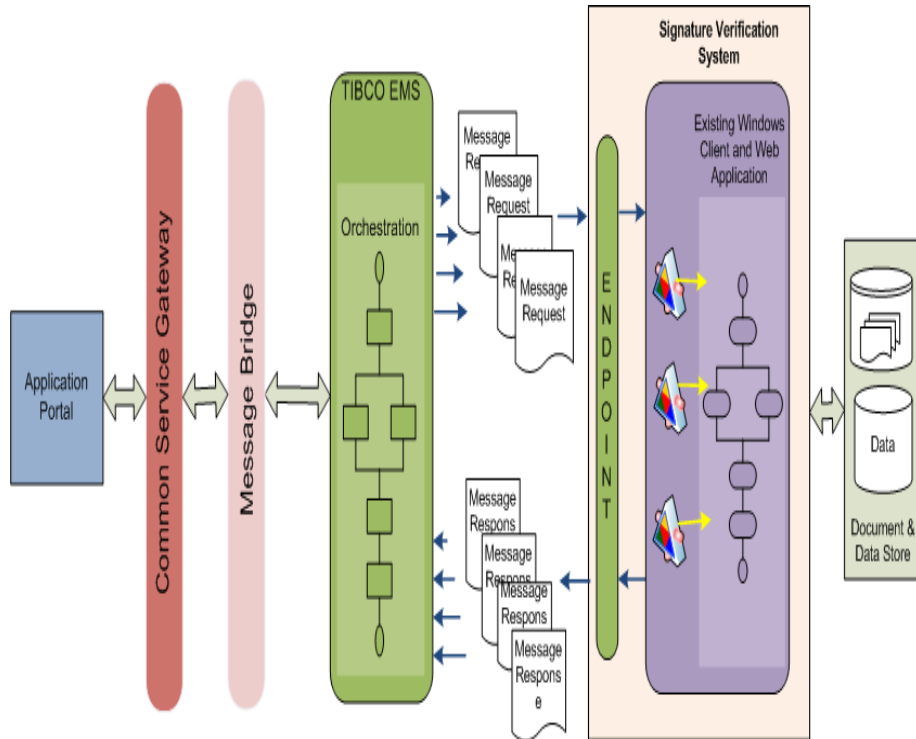
Key Benefits

- ✦ Web Services wrapper built around the existing application in case of client-server application.
- ✦ Confidential information of customer provided on-demand after proper authentication and authorization.
- ✦ System designed to function to support event based asynchronous conversation.
- ✦ Can converse with multiple delivery channels.
- ✦ Service Oriented Design with loosely coupled modules orchestrated by a manager based on business rules defined.
- ✦ Process Orchestration Manager capable of tweaking the business logic or perform additional functions with no impact to base code.
- ✦ Initial benchmark shows the processing time of around 100 requests / second for the e-Delivery Channel.
- ✦ Uses WCF (Windows Communication Framework) to perform Asynchronous communications.

Solution Overview

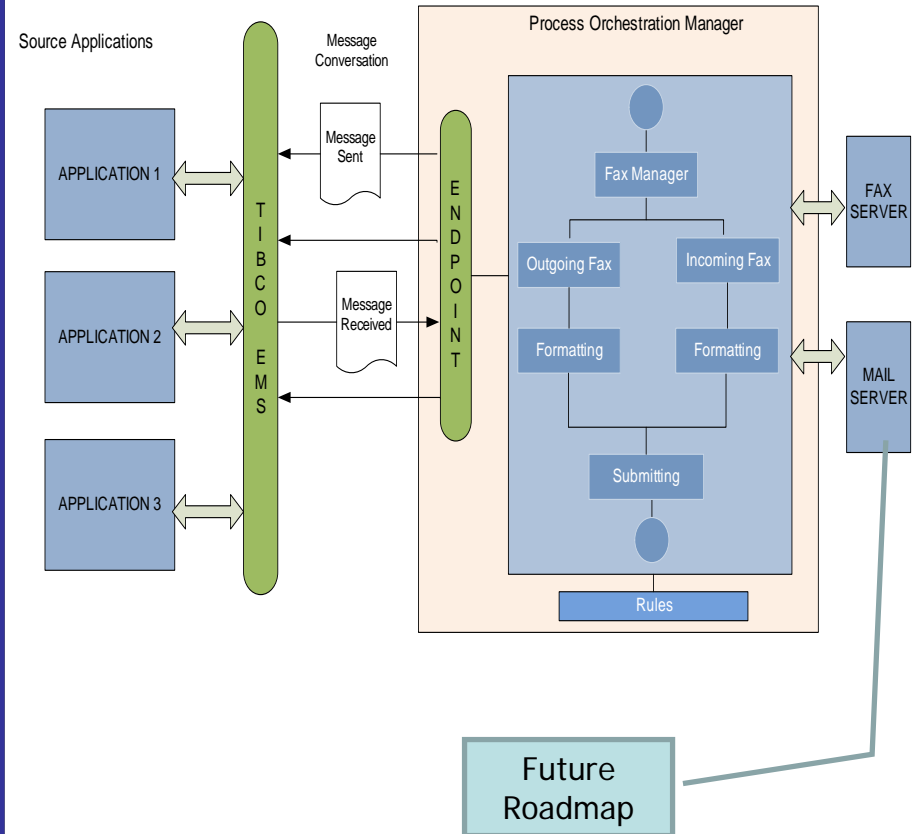
Signature Verification System

(Web Services Orchestration in TIBCO)



Regional e-Delivery Hub

(Proprietary Process Orchestration & Mediation through TIBCO)



Partnering with Nucleus



- ❖ Leveraging on Nucleus's partnership with Oracle & TIBCO for right mix of right priced products
- ❖ Matured Onsite-Offshore Model to leverage cost advantages to client
- ❖ Certified professionals being deployed for effective leverage of the same
- ❖ Significant Experience in technologies like .Net and Java for effective and comprehensive solutions to integrate existing applications
- ❖ Experience in implementing, enhancing and maintaining Enterprise Integration Application for the 10 yrs.
- ❖ Experience in Business Process Re-engineering, to arrive at business specific integrations
- ❖ Expertise in wide variety of business domains for customized business solutions
- ❖ Experience in integrating multi-country and multi-region systems

Thank You
With you until success & beyond...



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