

Business Integration Solution using WebSphere Process Server 6.0

The Project:

Development of a Business Integration Solution to demonstrate the features of WebSphere Process Server 6.0 by providing an end to end Integration between different Enterprise Information Systems(EIS) which includes Siebel , PeopleSoft and Oracle.

Client:

IBM

Solution:

Our team, consisting of a Portal/Integration Consultant teamed with the IBM team to develop a complete Integration solution between EIS's including Siebel, PeopleSoft and Oracle. The business scenario included product flow from PeopleSoft to Siebel through a BPEL process hosted in WebSphere Process Server. The BPEL process included automatic and manual cleansing tasks where manual cleaning was achieved with a Human Task component and automatic cleaning through a Business Ruleset. Once the product makes it to the Siebel system, it can be used by a shopping cart application hosted in WebSphere Portal to configure the product and submit an order. The products are pulled into the Portal server using Web Service calls (SOAP/HTTP) from WebSphere Process Server. Order submission happens through a Web Service call as well, and the order is sent to Oracle system through WebSphere Process Server. The front end for the demonstration is WebSphere Portal Server which talks to WebSphere Process Server for business processes and integration touch points.

- Installed and Configured WebSphere Portal Server 5.1.0.1 in a Virtual Machine(VM) Image.
- Installed and Configured WebSphere Process Server(WPS) 6.0 in a VM image.
- Incorporated Portal Themes & Skins WebSphere Portal.
- Developed Portlets for the front end of the Integration Demo using Rational Application Developer 6.0.
- Developed SCA components as BPEL in WPS 6.0 using WebSphere Integration Developer 6.0.
- Created Data and Interface Mappings for the Integration Module using WebSphere Integration Developer 6.0.
- Created Relationship in WPS to take care of ID mapping between the EIS's using WebSphere Integration Developer 6.0.
- Configured Adapters used in the demo which included:
 - JCA Adapter for Siebel.
 - WBI Adapter for PeopleSoft
 - WBI Adapter for Oracle.

Features of the site include:

- Seamless integration between Siebel, PeopleSoft and Oracle using WebSphere Process Server 6.0
- Integration between WebSphere Portal Server and WebSphere Process Server
- Demonstration of powerful WPS features like Relationships, BPEL, Data Mappings, Interface Mappings, WBI and JCA Adapter Integrations.

Technologies:

WebSphere Process Server 6.0, WebSphere Portal Server 5.1.0.1, WebSphere Application Server 6.0, Siebel 7.8, Oracle EBS, PeopleSoft, Rational Application Developer 6.0, Rational Integration Developer 6.0, WBI PeopleSoft Adapter, WBI Oracle JDBC Adapter, Siebel JCA Adapter and VMware Workstation.