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## System Integrations and Services Oriented Architecture (SOA)

Connecting your information systems can provide your users with valuable data. Done properly, it can reduce cost and risk for an organization, while allowing for a best of breed approach.

At AMC, we offer the following system integration services:

- Needs Assessment and Scorecard
- Systems Design
- Solution Implementation
- Training and Support

There are many choices in deciding how best to connect various "Information Silo's". The key is to understand your choices, determine your best fit, and implement appropriately.

### PeopleSoft Integration Overview

PeopleSoft can be used effectively as a repository of corporate data. There are many ways to integrate "Best of breed" systems with PeopleSoft. An integration point is an interface that is used to communicate with other PeopleSoft or external applications. An integration point provides integration details for PeopleSoft applications, including which technologies are involved, technology details, information for using PeopleSoft Integration Broker for messaging, and how different integration points are related.

An integration point can be implemented by using different technologies available in PeopleTools, such as messaging, component interfaces, business interlinks, XML links, and electronic data interchange (EDI). Every integration point is owned by at least one application, but can be used in multiple applications. Common tools to integrate with PeopleSoft are:

#### Business Interlinks

PeopleSoft Business Interlinks enables you to perform component-based, real-time integration from PeopleSoft to external systems. PeopleSoft Business Interlinks creates synchronous transactions that enable PeopleSoft applications to pass data to and receive data from the external system in real time. You can use PeopleSoft Business Interlinks to integrate PeopleSoft with third-party systems, with another PeopleSoft application, or with systems on the internet.

#### Integration Broker

PeopleSoft Integration Broker is a messaging system that enables you to synchronize data from one application or system with another.

PeopleSoft Integration Broker facilitates synchronous and asynchronous messaging among internal systems and trading partners, while managing message structure, message format, and transport disparities.

PeopleSoft Integration Broker comprises two high-level subsystems: the integration engine and the integration gateway. The integration engine runs on the PeopleSoft application server. It is tied closely to PeopleSoft applications and produces or consumes messages for these applications.

The integration gateway manages the receipt and delivery of messages passed among systems through PeopleSoft Integration Broker. It provides support for the leading TCP/IP protocols used in the

marketplace today, and more importantly, provides extensible interfaces for the development of new connectors for communication with legacy and internet-based systems.

### **Component Interface**

A component interface is a set of application programming interfaces (APIs) that you can use to access and modify PeopleSoft database information using a program instead of the PeopleSoft client. PeopleSoft Component Interfaces expose a PeopleSoft component (a set of pages grouped for a business purpose) for synchronous access from another application (PeopleCode, Java, C/C++, or Component Object Model [COM]). A PeopleCode program or an external program (Java, C/C++, or COM) can view, enter, manipulate, and access PeopleSoft component data, business logic, and functionality.

### **File Layouts**

A file layout is a definition (or mapping) of a file to be processed. It identifies where fields are located in file data. Once you create a file layout, you can write PeopleCode programs that ultimately use file layout, either to read data from or write data to a file.

In addition to manipulating transaction data, you can use file layouts and flat files to move data between your PeopleSoft database and external systems (data interchange).

## **New Tools in Peoplesoft 9.0**

PeopleSoft 9.0 application runs on PeopleTools 8.48 onwards. This document highlights some of the new features and enhancements in this release. For detail listing and in depth information related to any feature, refer to the appropriate release notes and PeopleBooks.

Enhanced Web Services and SOA support – features a services-oriented architecture for integrations. Users create services and service operations that contain message, routing information and processing logic. You create processing logic using application classes and then associate the logic to service operations using PeopleCode handlers. Users then use wizard-driven pages for generating, providing and consuming WSDL with integration partners.

This release of PeopleTools supports integration with BPEL process based services.

Several enhancements were added to services security, including the addition of web service security (WS-Security) and a unique transaction ID in a web services addressing (WS-Addressing) SOAP header.

PeopleSoft provides you with the ability to create inbound and outbound integrations with enterprise resource planning (ERP) systems. These integrations are accomplished using a combination of PeopleSoft Integration Broker and adapters included in a third-party tool, iWay SOAPswitch. IWay SOAPswitch is an installation option during the PeopleTools installation.

With this PeopleTools release flat file processing using service operations has replaced processing using messages.

The Oracle **XML Publisher** for PeopleSoft Enterprise is a template-based reporting solution that separates the data extraction process from the report layout and allows the reuse of extracted application data into multiple report layouts. Select features of the Oracle XML Publisher have been integrated into and enhanced for use with PeopleTools.

A number of performance and usability enhancements have been added toward providing more robust upgrade tools and to enable you to make rapid changes to environments.

There are several enhancements to the underlying architecture that increase end user productivity and improve the PeopleSoft user experience overall.