

PeopleTools v8.5x Integration Integration Broker Course

Agenda

➤ Introductions

➤ Course Overview

➤ Course Lessons

- Architecture
- Configuration
- Create Integrations
- Troubleshooting

➤ Additional Q&A

- Throughout sessions, and at the end of each day

Introductions

Course Instructor – Todd Kummer



- PeopleSoft Developer
 - Project Costing (Release v8.9)
 - Contracts (Releases v8.4, v9.1)

- Expertise
 - User Experience
 - Software Architecture
 - Upgrades

- Responsible for first application implementation of IB pre-cursor Application Messaging

About this Course

- **Overview of PeopleSoft Integration Broker**

- **Question for the class:**

- When does configuration end and transactional logic begin?

- **Hands-on activities**

- **Interactive and Dynamically paced**

What is the Integration Broker?

➤ **Functionally, it allows systems to talk to each other. Here are some examples:**

- a PeopleSoft Financials system talking to a PeopleSoft Human Resources system
- a PeopleSoft system writing out a flat file
- a vendor (third-party system) sending a purchase order to a PeopleSoft financials system
- a PeopleSoft system talking to itself
- a PeopleSoft system getting currency exchange rates from a web service

➤ **Technically, it is an application that sits in a web server. Here are the two main parts of the Integration Broker:**

- Integration Gateway (think web server)
- Integration Engine (think app server)

➤ **It's middleware.**

Middleware

What is middleware? Plumbing.

- it's mostly invisible
- it provides a standard way of doing things
- it ties together parts of complex systems
- it let's you worry about other things

Source: <http://magazine.redhat.com/2008/03/11/what-is-middleware-in-plain-english-please/>

And sometimes, the Integration Broker talks to middleware.

Question: What middleware do you currently use?

Integration Broker Architecture

- Integration Gateway
- Integration Engine

Integration Gateway



The gateway uses connectors to talk to other systems. For incoming messages, it does some basic validations and logging then turns the message over to the Integration Engine.

The following elements make up the Integration Gateway

- **Connectors**
- **Gateway Manager**
- **Gateway Services**

Integration Gateway—Connectors

Listening Connectors

- PeopleSoft
- HTTP
- PeopleSoft Services
- PeopleSoft 8.1
- JMS
- AS2

Target Connectors

- PeopleSoft
- HTTP
- PeopleSoft 8.1
- JMS
- AS2
- Simple File
- FTP
- SMTP

Want to talk to another type of system? Check out the PeopleSoft Integration Broker Connector SDK.

Integration Gateway—Gateway Manager

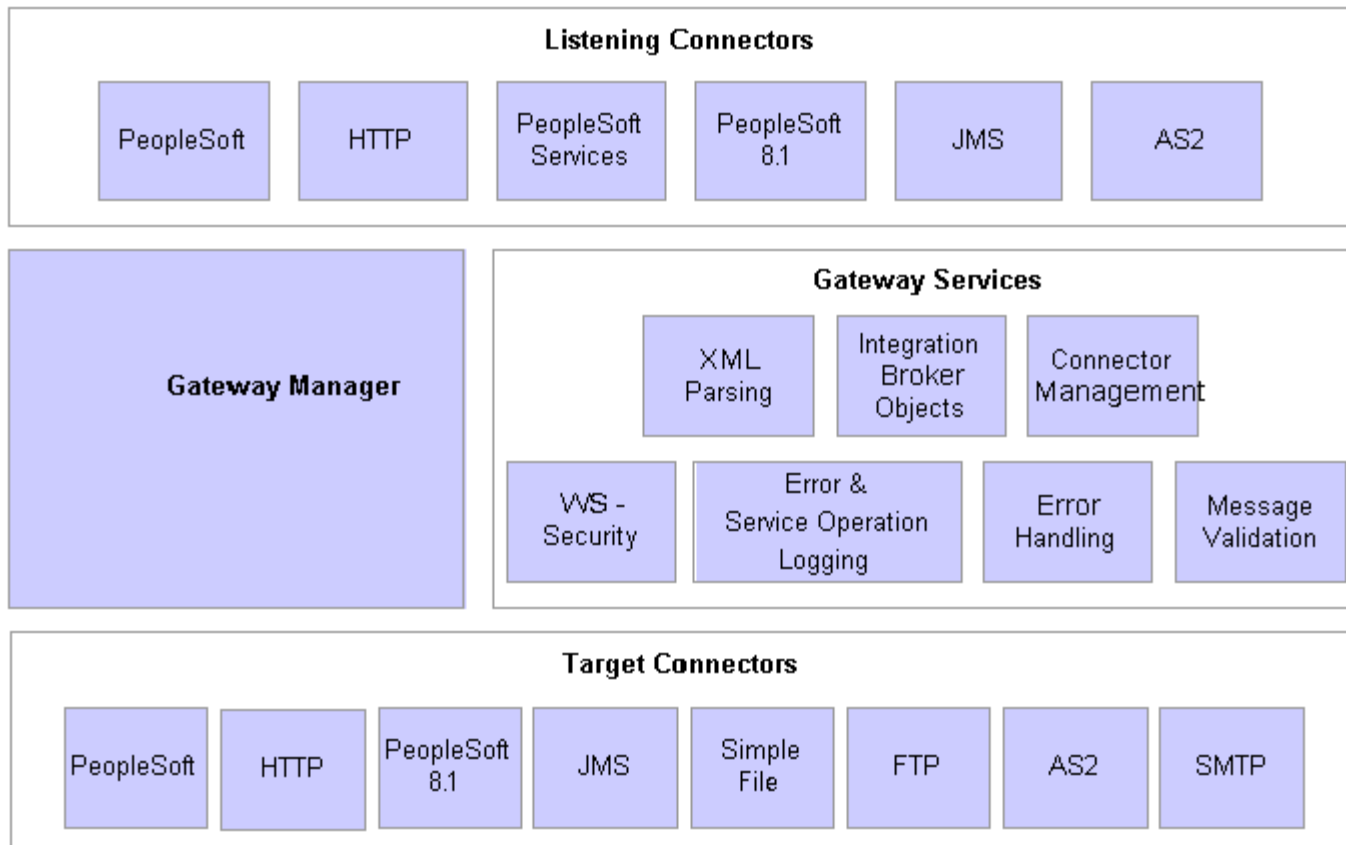
The Gateway Manager is the traffic cop of the Integration Gateway.

- **Listening Connectors invoke the Gateway Manager**
- **Gateway Manager invokes the Gateway Services**
- **Gateway Manager invokes appropriate Target Connector**

Integration Gateway—Gateway Services

- XML Parsing
- Message Validation
- Connector Management
- Error and Message Logging
- Web Services Security

Integration Gateway



Integration Engine

➤ Data Handling

- XML Doc
- SOAP Doc
- PeopleCode Rowset
- Message Segments

➤ Event Handlers

- Component Interface
- Application Class
- Data Mover

➤ Integration Broker Events

- OnNotify
- OnSend
- OnRequest
- OnRoute
- OnAckReceive

Integration Engine (Cont'd)

➤ Security

- Node Authentication
- User Authentication
- Digital Certificates
- Web Services Security
- PeopleSoft Tokens

➤ Performance Throttling

- Multi-threaded Processes
- Load Balancing
- Master/Slave

➤ Transformation Engine

- XSLT
- Codesets

➤ Routing Management

➤ Error Handling and Monitoring

➤ Queue Management