




Hands-on Workshop

Service Enable Oracle E-Business Suite with Oracle SOA Suite

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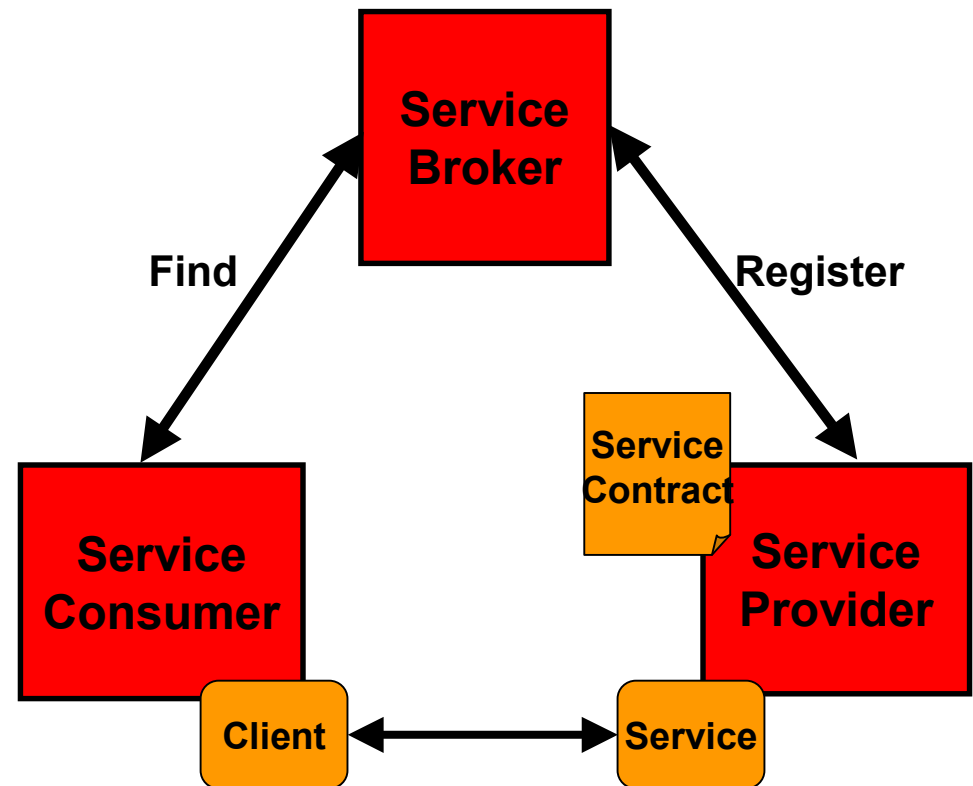
Agenda

- Service Oriented Architecture for E-Business Suite
- Certification
- Demonstration
- Hands-on Lab

What is Service Enablement?

It's all about...

- Capability to Provide Services
- Ability to Consume Services
- Abstracted Re-Usable Interfaces
- Standard Based Web Services
- Documented Services & API





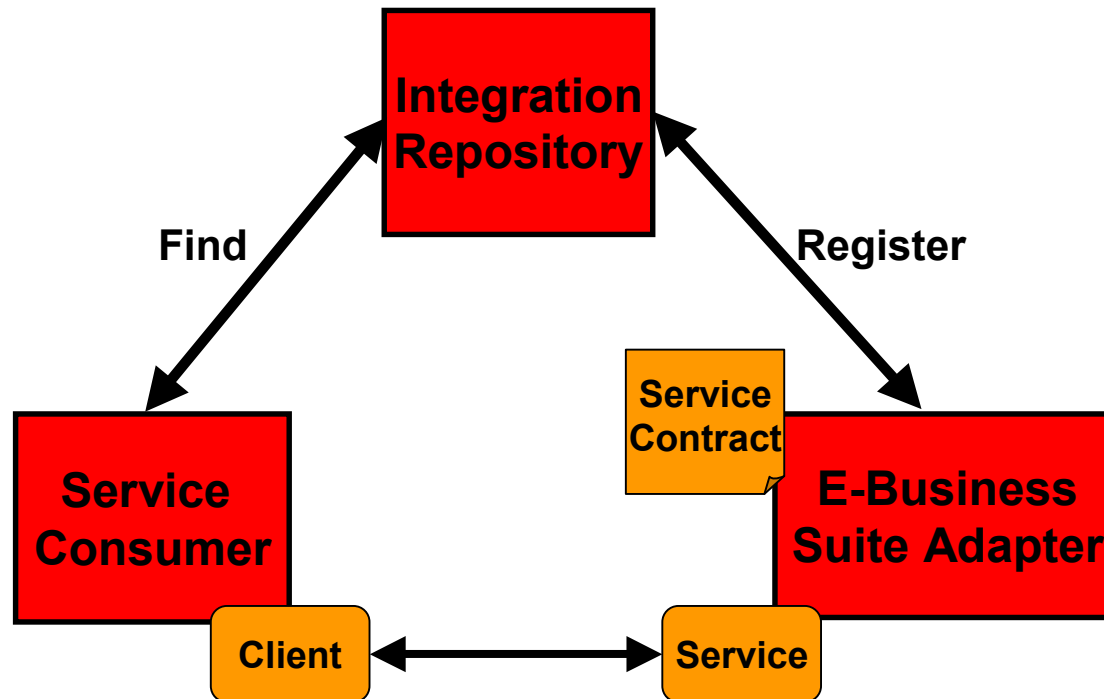
Why Service Enablement?

Business Drivers

- Leveraging the investment of existing Applications
- Rapid time to design and deploy new solutions
- Interoperability in a heterogeneous ecosystem
- Integrated View of business processes
- Maximize ROI by re-usability of services
- Low TCO for implementation and deployment

Service Oriented Architecture

SOA Concept	E-Business Suite SOA
Service Broker: Describe Service's Location and Contract	Integration Repository
Service Provider: An appropriate agent to implement a particular service	Oracle E-Business Suite Adapter





Integration Repository


<http://irep.oracle.com>

- Catalog of all Public Interfaces – the single source of truth for Integration
- Common User Interface to search and browse E-Business Suite interfaces
- Embedded within the core E-Business Suite schema to leverage the standard security system
- Preconfigured for exposing & administering Interface Points as Web Services
- Automatically kept in step with source code, via standard patching technology
- Hosted in 11.5.10, packaged in 12.

Integration Repository

Single Source of Truth

- PL/SQL APIs (2650+)
- Open Interface Tables (147+)
- Concurrent Programs (214+)
- XML Gateway (170+)
- eCommerce Gateway (24+)
- Interface Views
- Java
- Web Service



The screenshot displays the Oracle Integration Repository interface. On the left, a tree view shows the 'Product Family' structure, with 'Sales Order' selected under 'Order Management'. The main content area shows the details for the 'Process Order API'.

Process Order API

Internal Name: OE_ORDER_PUB
Type: PL/SQL
Owning Product: Order Management
Business Entity: Sales Order
Metalink: [Order Management Suite Documentation](#)
Source File: patch/115/sql/OEXPORDS.pls
Source Version: 115.154.11510.9
Source Product: OMT

Status: Active
Scope: Public

Description
This public API allows users to perform various operations on sales orders in the Order Management system.

Procedures and Functions

Name /	Internal Name	Status	Description
Delete Order	DELETE_ORDER	Active	Use this procedure to delete a sales order in the Order Management system.
Delete Order Line	DELETE_LINE	Active	Use this procedure to delete a sales order line in the Order Management system.
Get Sales Order	GET_ORDER	Active	Use this procedure to retrieve the information about a Sales Order.
ID To Value	ID_TO_VALUE	Active	Use this procedure to retrieve sales order attribute values when supplying the ID information for those attributes.
Lock Sales Order	LOCK_ORDER	Active	Use this procedure to lock a sales order in the Order Management System.
Maintain Sales Order	PROCESS_ORDER	Active	Use this procedure to create, update or delete Sales Orders in the Order Management system.
Process Order Header	PROCESS_HEADER	Active	Use this procedure to process the creation, update, or deletion of a sales order header in the Order Management system.
Process Order	PROCESS_LINE	Active	Use this procedure to process the creation, update, and deletion of sales

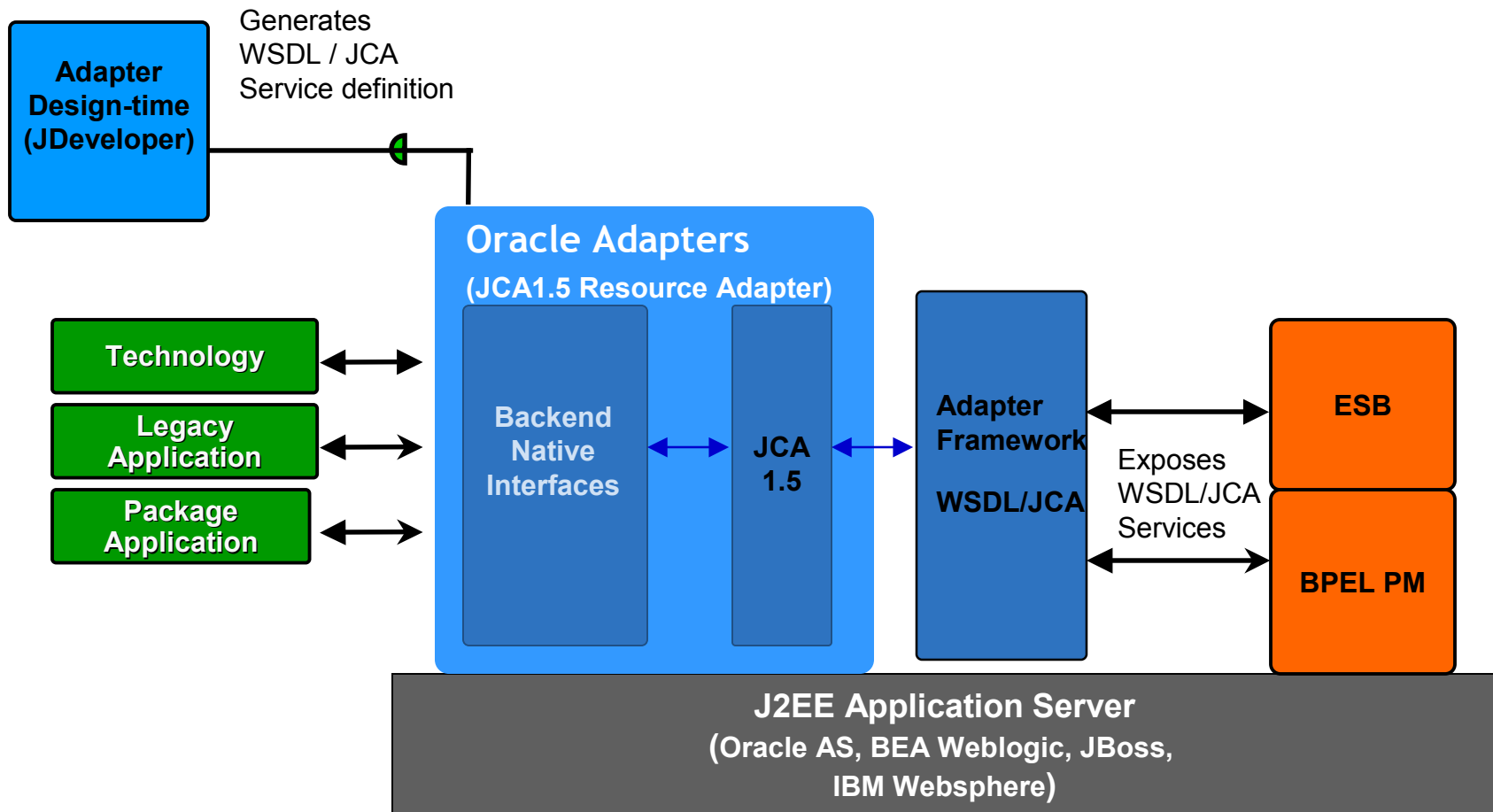


Oracle E-Business Suite Adapter

Salient Features

- Leverages Integration Repository for 11.5.10
 - Expose only recommended public interfaces
- Version aware design-time
 - Packaged IREP content for 11.5.10
 - Direct Application connectivity for pre 11.5.10
- Completely standards based product
- XA Support
- Automatic Application Context Initialization

Oracle Adapter Architecture





Oracle E-Business Suite Adapter

Benefits

- Exposes E-Business Suite Integration Interfaces as standard Web Services for 1.5.x versions
 - Supports multiple versions of Oracle Apps in a heterogeneous ecosystem
 - Supports most-used interface types
- Intuitive UI
 - Simplifies design-time experience
- Faster design to deploy time
 - Declarative development of integration solutions



Oracle E-Business Suite Adapter

Standards Based

- Based on J2CA 1.5 standards
- Deployed as a resource adapter in the same Oracle AS Server Containers for J2EE (OC4J)
- Supports open standards, such as
 - J2EE Connector Architecture (**J2CA**)
 - Extensible Markup Language (**XML**)
 - Web Service Invocation Framework (**WSIF**)
 - Web Service Inspection Language (**WSIL**)
 - Web Service Definition Language (**WSDL**)
- Uses JDeveloper based design-time environment
- Generates Adapter metadata as WSDL files with J2CA extension



Supported Interfaces

- **Business Events**
 - Seeded and custom events for outbound
 - Only custom events for inbound
- **PL/SQL APIs**
 - Packaged IREP annotated for 11.5.10 (public APIs)
 - All for pre-11.5.10
 - Custom + Ones still not annotated in IREP
- **XML Gateway Interfaces**
 - Seeded + custom maps
- **Open Interface Tables & Concurrent Programs**
- **ECommerce Gateway Interfaces**

E-Business Suite – FMW Certification

	Release 11i	Release 12
Oracle Containers for J2EE and OHS		Embedded
Oracle Portal and WebCenter	Certified	Certified
Oracle BPEL Process Manager	Certified	Certified
Oracle Enterprise Service Bus	Certified	Certified
E-Business Suite Adapter	Certified	Certified
Business Activity Monitoring	Supported	Supported
Business Process Analysis Suite	Supported	Supported
Oracle BI Publisher	Certified	Certified
Oracle BI EE	Certified	Certified
Oracle BI Applications	Certified ²	Certified ²
Oracle Image and Process Management	Certified ³	Certified
Oracle Single Sign-On	Certified	Certified
Oracle Internet Directory	Certified	Certified
Oracle Identity Manager	Certified	Certified
Oracle Access Manager	Certified	Certified ⁴
Oracle UDDI Registry	Certified	Certified
Oracle Web Cache	Certified	Certified
Enterprise Manager + Mgmt Pack for EBS	Certified	Certified
Oracle Database + Partitioning + Spatial: 10G	Embedded	Embedded
Oracle RAC + Data Guard + TDE: 10G	Certified	Certified

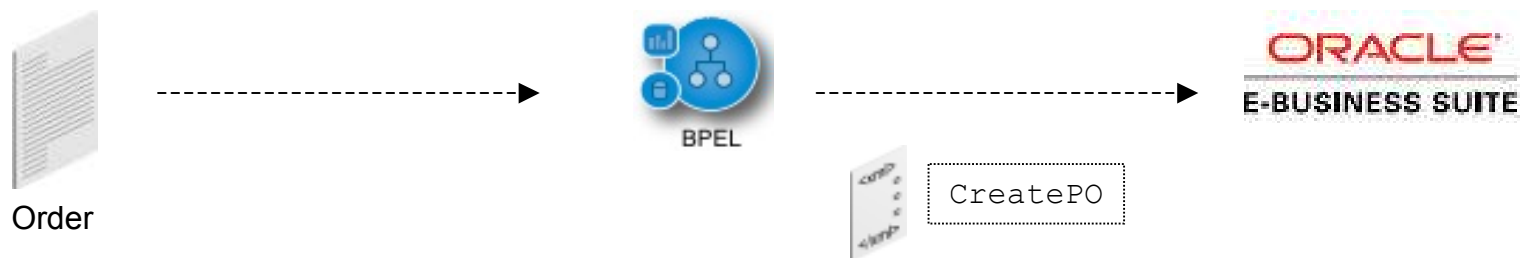


D E M O N S T R A T I O N

Hands-on Lab: Service Enabling Oracle E-Business Suite

Objective:

- Build “CreatePO” Service to pass Purchase Orders to E-Business Suite using E-Business Suite Adapter and XML Gateway





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Steps:

1. Prerequisites - > Configure 3 listeners in Oracle Applications
2. Create new BPEL Project -> “OrderAssets”
3. Configure E-Business Suite Adapter Partner Link -> “CreatePO”
4. Build BPEL Process:
 - Create “Invoke_CreatePO” activity to send messages to the Partner Link
 - Add “Assign” activity to populate parameters that pass context to Oracle Applications
 - Create a Transformation to transform the process input into the format needed by the CreatePO Adapter (created in step#3)
5. Deploy and Test your BPEL Process
6. Verify your records in Oracle Applications



Best Practice Centers

- Check out the recently launched Best Practice Centers on OTN
 - Technical hands-on content geared to Developers, and Technologists
 - "Best Practices" on how to service-enable your applications to build integrations, business processes and composite applications using Fusion Middleware
- E-Business Suite Best Practice Center
- <http://www.oracle.com/technology/tech/fmw4apps/ebs/index.html>
- Scheduled Webcasts:
 - 20-May-08 "Service Enabling E-Business Suite"
 - 22-Jul-08 "Using Enterprise Service Bus with E-Business Suite"
- PeopleSoft Best Practice Center
- <http://www.oracle.com/technology/tech/fmw4apps/peoplesoft/index.html>
- Scheduled Webcasts:
 - 21-May-08 "Service Enabling PeopleSoft"
 - 23-Jul-08 "Consuming PeopleSoft Web Services in WebCenter"
- Siebel Best Practice Center
- <http://www.oracle.com/technology/tech/fmw4apps/siebel/index.html>
- Scheduled Webcasts:
 - 23-Apr-08 "Consuming Siebel Web Services in WebCenter"
 - 18-Jun-08 "Using Enterprise Service Bus with Siebel"



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