

**Oracle Business Approvals Connector for  
Sales Managers**

Configuration Guide

Release 1.1

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## Oracle Business Approvals Connector for Sales Managers Configuration Guide Release 1.1

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# Overview

This chapter includes the following topics:

- About the Oracle Business Approvals for Sales Managers Configuration
- Prerequisites

## About the Oracle Business Approvals Connector for Sales Managers Configuration

This guide provides information about the Oracle Service-Oriented Architecture Suite configuration for Oracle Business Approvals Connector for Sales Managers (hereafter referred to as Connector).

This configuration is required to use Oracle Business Approvals for Sales Managers (hereafter referred to as Sales Managers), which is the corresponding Apple iPhone client application.

### Information for End Users

In addition to following the instructions in this guide, a system administrator must inform users of Sales Managers of the endpoint URL for the BPEL server. This URL provides the connection to the Siebel application through Oracle SOA Suite.

### Access to Analytical Reports from Oracle Business Intelligence Suite Enterprise Edition Plus

Users can set up analytic reports in Oracle Business Intelligence Suite Enterprise Edition Plus (Oracle BI EE Plus) that can be accessed from Sales Managers. This configuration is optional and is not required to use Sales Managers.

See the *Oracle Business Approvals for Sales Managers User Guide* for information about this configuration.

## Prerequisites

You must install the following prerequisites:

## Overview

- Oracle SOA Suite 10.1.3.1  
See *Oracle Application Server Installation Guide 10g Release 3 (10.1.3.1.0)*
- Oracle SOA Suite 10.1.3.3 Patch and higher  
See Oracle Application Server Patch Set Notes 10g Release 3 (10.1.3) Patch Set 3 (10.1.3.3.0)
- Oracle's Siebel Quote 8.1 or Oracle's Siebel Quote and Order 8.1

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# Configuring Oracle Business Approvals Connector for Sales Managers

This chapter includes an architectural overview and the following topics:

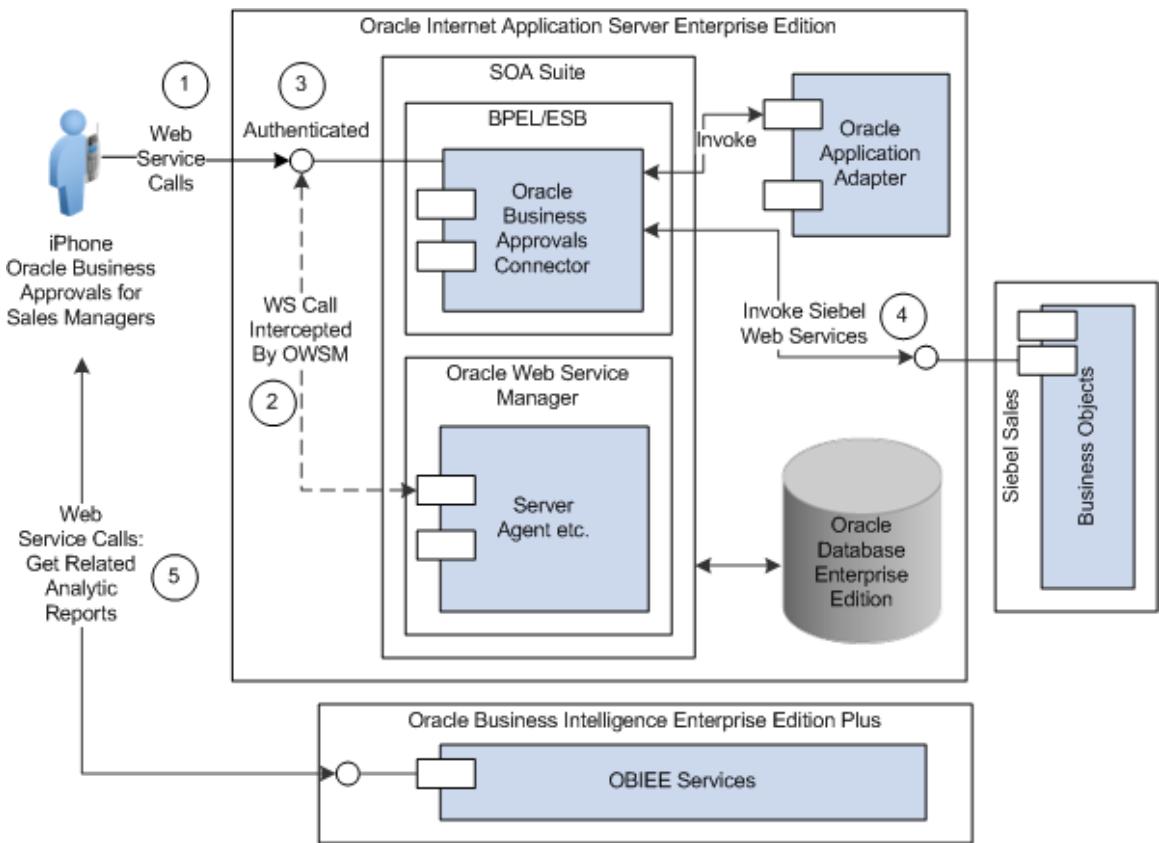
- Configuring Web Services for Sales Managers
- Deploying the Connector BPEL Flows
- Importing Domain Value Maps (DVMs)
- Testing the Connector BPEL Flows

**Note:** Some topics in this chapter do not provide step-by-step instructions. Instead, they refer to other guides that provide the applicable information.

## Architectural Overview

This diagram shows the interaction between the Sales Managers application on the Apple iPhone and the servers that support the integration.

## Configuring Oracle Business Approvals Connector for Sales Managers



Interaction between Oracle Business Approvals Connector for Sales Managers and Oracle SOA Suite

Oracle SOA Suite, running on Oracle's application server, handles the main worklist functionality and the subsequent back-end integration with Siebel. In addition, if access to analytic reports is enabled in Sales Managers, Oracle BI EE Plus handles the request for business intelligence data that supports each worklist item.

## Configuring Web Services for Sales Managers

Sales Managers uses Siebel Customer Relationship Management (Siebel CRM) web services to receive approval requests from Siebel CRM. All web services used by Sales Manager must have SOAP\_DOC\_LITERAL bindings and all operations invoked must have 'Username/Password – clear text' authentication.

You must configure and activate these web services:

Service	Port	Operations Used
http://siebel.com/OrderManagement/Quote – QuoteWebService	QuotePort	GetQuoteById
http://siebel.com/asi/ – Siebel Quote	Default	SiebelQuoteQueryById
http://siebel.com/CustomUI – Universal Inbox	Universal Inbox	UniversalInboxCallAction
http://siebel.com/CustomUI – UIInbox Contact Item	UIInbox Contact Item	UIInboxContactItemExecute UIInboxContactItemQueryPage

See “Web Services” in *Oracle’s Siebel Integration Platform Technologies: Siebel Enterprise Application Integration Guide*.

## Deploying the Connector BPEL Flows

This section provides an overview and includes the following topics:

- Using an Ant Script to Deploy the Connector BPEL Flows
- Using JDeveloper to Deploy the Connector BPEL Flows

### Overview

Oracle provides the following two sets of Connector BPEL flows to deploy to an Oracle BPEL Process Manager (BPEL PM) server:

- A foundation set of BPEL flows for use with all Oracle Business Approvals applications.
- A set of application-specific BPEL flows for the Sales Managers application.

You can use an ant script or JDeveloper to deploy the BPEL flows. Both methods are described in this section.

### Using an Ant Script to Deploy the Connector BPEL Flows

You must install the following prerequisites before using an ant script.

#### Prerequisites

- Ant 1.6 or later version
- Oracle BPEL PM (or Oracle SOA Suite) 10.1.3.3 or later version for ant task libraries only
- Functioning BPEL PM (or Oracle SOA Suite) server 10.1.3.3 or later version

- A valid URL to Siebel 8.1 CRM On-Premise.

To use an ant script to deploy Connector BPEL flows:

1. In the root directory of the installation, open the AUBI.properties file and modify it as follows for your environment:

**Note:** This file is similar to the standard deployment properties file generated by JDeveloper when creating a new BPEL project.

- a. Set the bpel.home with a path to the bpel directory, for example:

`\Oracle\product\10.1.3.1\OracleAS_1\bpel`

This path is only used to access the necessary ant tasks to successfully deploy the BPEL flows. This home does not need to be part of the target BPEL PM server.

- b. Uncomment the 'domain' property if you are deploying to a domain other than the 'default' domain.
- c. Leave the 'rev' property commented out.
- d. Enter the admin user and password and the BPEL PM server hostname and port.
- e. Enter the opmn port of the BPEL server.

f. Change the oc4jinstancename property if the target OC4J instance on your server has a name other than "home".

g. Configure other properties if your installation is more complex.

For more information about these properties and deployment with ant, see "BPEL Process Deployment and Domain Management" in the *Oracle BPEL Process Manager Developer's Guide*.

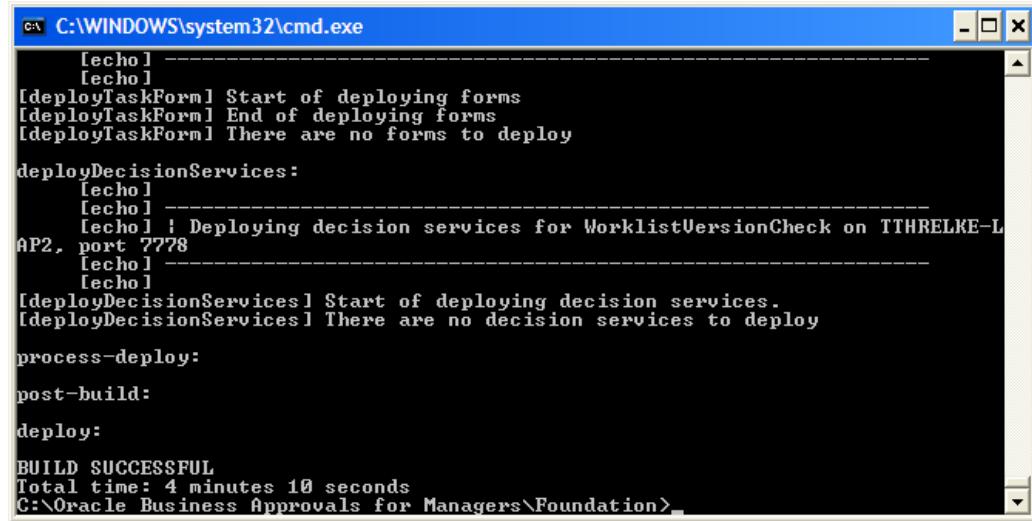
2. Open the siebel.properties file in the SalesQuote folder and set the Siebel web services URI. For example:

`http://<Siebel_8.1_or_later_server>/eai_anon_enu/start.swe?SWEExtSource=SecureWebService&SWEExtCmd=Execute`

3. Open a command prompt in the following directories and execute the ant command:

`/Foundation`

`/Sales Quotes`



```
C:\WINDOWS\system32\cmd.exe
[echo] -----
[echo]
[deployTaskForm] Start of deploying forms
[deployTaskForm] End of deploying forms
[deployTaskForm] There are no forms to deploy

deployDecisionServices:
[echo]
[echo] -----
[echo] ! Deploying decision services for WorklistVersionCheck on TTHRELKE-L
AP2, port 7778
[echo]
[echo]
[deployDecisionServices] Start of deploying decision services.
[deployDecisionServices] There are no decision services to deploy

process-deploy:
post-build:
deploy:
BUILD SUCCESSFUL
Total time: 4 minutes 10 seconds
C:\Oracle Business Approvals for Managers\Foundation>
```

## Using JDeveloper to Deploy the Connector BPEL Flows

These instructions assume you know how to administer BPEL flows with JDeveloper.

See “Overview of BPEL Project Creation and Oracle JDeveloper” in the *Oracle BPEL Process Manager Developer’s Guide* for more information.

To use JDeveloper to deploy Connector BPEL flows:

1. Create a BPEL project using the source of one of the BPEL flows, for example:

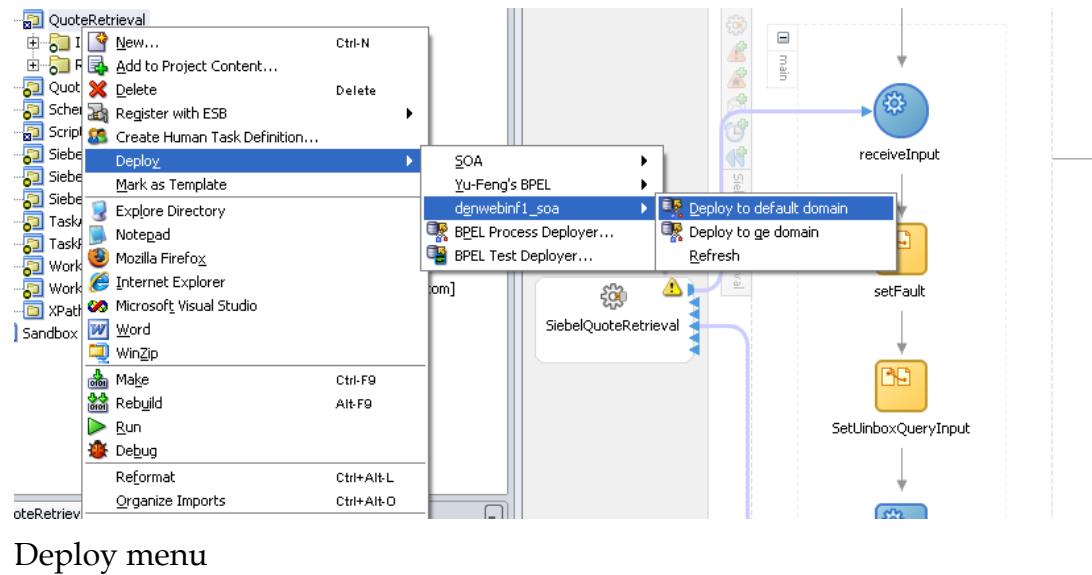
<install root>/foundation/WorklistRetrieval

You can do this by using the import tool on the JDeveloper File menu or by manually creating a new project and copying the BPEL flows to the new project. The latter choice is sometimes more reliable, although less convenient.

2. Create an integration connection to your BPEL PM server.

See the Connection Navigator on the View menu.

3. Right-click the BPEL project in the Application Navigator.
4. Select the server from the Deploy menu.



## Importing Domain Value Maps

This section includes an overview and the following topics:

- Importing DVMs for the Connector
- Importing Values into an Existing DVM

### Overview

Oracle provides the following DVMs that you must import for this configuration:

- **AUBI\_LOOKUP.xml.**  
Maps the codes used by the Connector to access the back-end Siebel Sales Quotes system.
- **AUBI\_SERVICE\_PROVIDER.xml.**  
Identifies, by functionality, the logical back-end enterprise information system to use. This enables the Connector to be hosted on one Oracle SOA Suite server.
- **AUBI\_CONF.xml**  
The DVM includes a MaxRecord parameter that is used to limit the total records returned to the Apple iPhone. The default setting for this parameter is 50. You can increase or decrease this number as needed. Because there is limited space for applications on the Apple iPhone, this setting can help reduce the limited space available on the Apple iPhone by limiting the number of records returned.

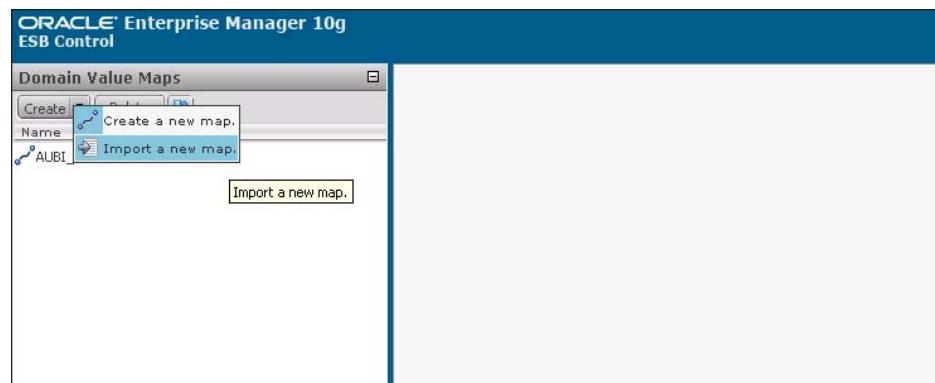
DVMs are global for the entire BPEL PM server. If you deploy the BPEL flows to multiple domains on the same BPEL PM Server, be aware that these settings will be used by all the flows. However, these settings should be static over time and can be safely shared between domains.

### Importing DVMs for the Connector

When installing the Oracle Business Approvals Connector for Sales Managers, you might have already imported the DVMs. This section describes how to import DVM maps that you did not import during the installation. If the maps were already imported, skip this section and proceed to the “Importing the Values into and Existing DVM” section.

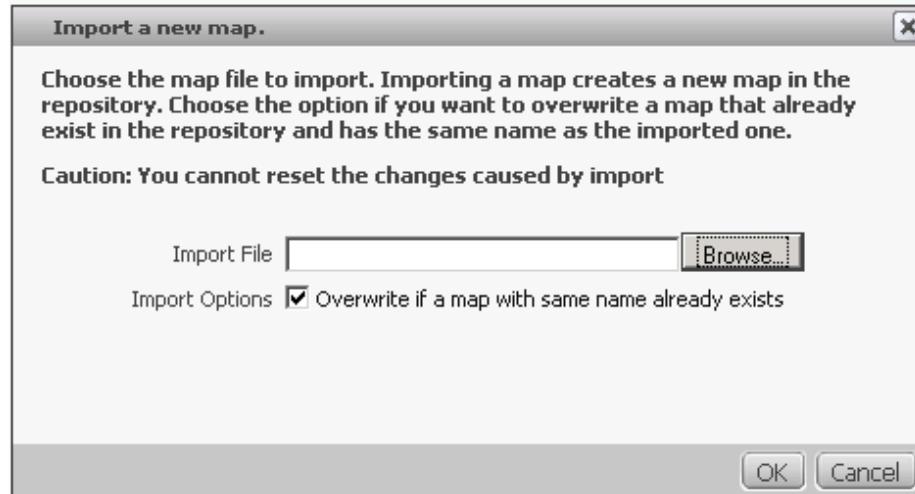
To import the DVMs:

1. Log in to Oracle Enterprise Manager and access the ESB Control.
2. At the top of the ESB Control, click the Map icon.
3. On ESB Control, click the Create drop-down menu and select Import a new map.



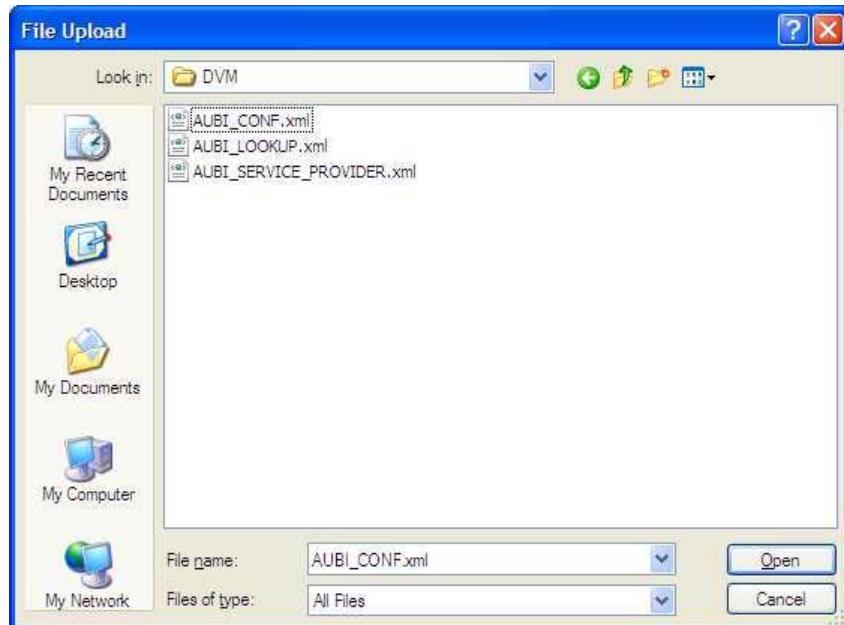
ESB Control – Import a new map

4. On Import a new map, click the Browse button to locate the map that you want to import.
5. On Import a new map, click the Browse button to locate the map that you want to import.
6. Select the option to overwrite a map if you want to overwrite a map that already exists in the repository.



### Import a new map

7. Click OK to import a new map.
8. Repeat these steps for all the lookup mappings in the DVM folder that do not already exist on the server. The sequence in which you import the mappings is not important.



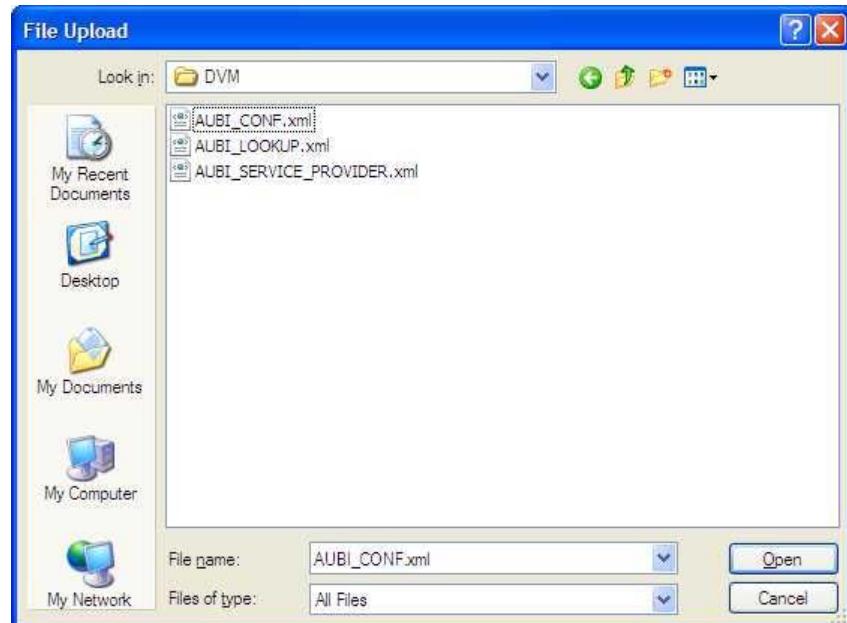
### File Upload – Upload DVM mappings.

## Importing Values into an Existing DVM

If you already installed the Oracle Business Approvals Connector for Sales Managers DVMs and need to import values, complete the following steps.

To import values into an existing DVM:

1. In Oracle Enterprise Manager, access the ESB Control.
2. Select a map and click the Import button in the upper right-hand corner.
3. On Import into an Existing Map, click the Browse button to locate the map that matches the map you selected.
4. Select the “Add conflicting rows” option to avoid overriding any customizations that might have occurred.
5. Click OK to import the new rows.
6. Repeat these steps for all the lookup mappings in the DVM folder that already exist on the server. The sequence in which you import the mappings is not important.



File Upload – Upload DVM mappings.

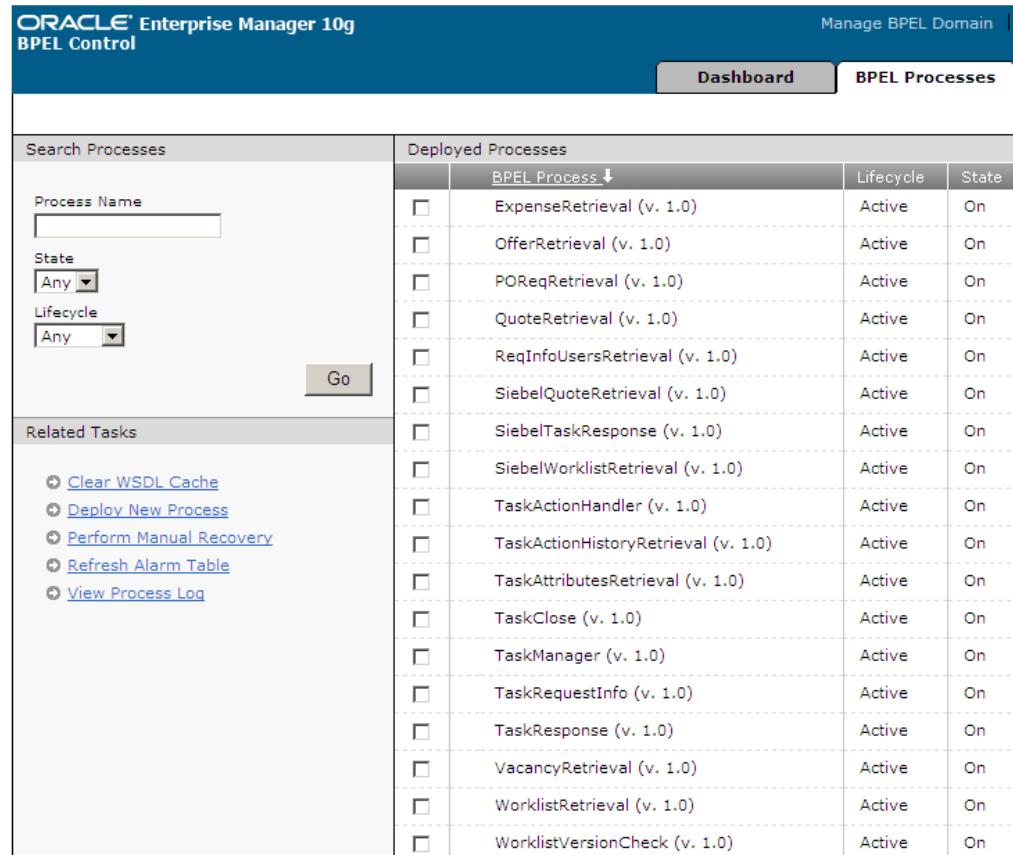
## Testing the Connector BPEL Flows

After you deploy the Connector BPEL flows, you should test them to ensure that they operate correctly in your environment.

To test the Connector BPEL flows:

1. On BPEL Control, click the BPEL Processes tab.

## Configuring Oracle Business Approvals Connector for Sales Managers



The screenshot shows the Oracle Enterprise Manager 10g BPEL Control interface. The top navigation bar includes 'Manage BPEL Domain', 'Dashboard' (which is selected), and 'BPEL Processes'. The main content area is divided into two sections: 'Search Processes' on the left and 'Deployed Processes' on the right.

**Search Processes:**

- Process Name:
- State:
- Lifecycle:
- 

**Related Tasks:**

- 
- 
- 
- 
- 

**Deployed Processes:**

	BPEL Process	Lifecycle	State
<input type="checkbox"/>	ExpenseRetrieval (v. 1.0)	Active	On
<input type="checkbox"/>	OfferRetrieval (v. 1.0)	Active	On
<input type="checkbox"/>	POReqRetrieval (v. 1.0)	Active	On
<input type="checkbox"/>	QuoteRetrieval (v. 1.0)	Active	On
<input type="checkbox"/>	ReqInfoUsersRetrieval (v. 1.0)	Active	On
<input type="checkbox"/>	SiebelQuoteRetrieval (v. 1.0)	Active	On
<input type="checkbox"/>	SiebelTaskResponse (v. 1.0)	Active	On
<input type="checkbox"/>	SiebelWorklistRetrieval (v. 1.0)	Active	On
<input type="checkbox"/>	TaskActionHandler (v. 1.0)	Active	On
<input type="checkbox"/>	TaskActionHistoryRetrieval (v. 1.0)	Active	On
<input type="checkbox"/>	TaskAttributesRetrieval (v. 1.0)	Active	On
<input type="checkbox"/>	TaskClose (v. 1.0)	Active	On
<input type="checkbox"/>	TaskManager (v. 1.0)	Active	On
<input type="checkbox"/>	TaskRequestInfo (v. 1.0)	Active	On
<input type="checkbox"/>	TaskResponse (v. 1.0)	Active	On
<input type="checkbox"/>	VacancyRetrieval (v. 1.0)	Active	On
<input type="checkbox"/>	WorklistRetrieval (v. 1.0)	Active	On
<input type="checkbox"/>	WorklistVersionCheck (v. 1.0)	Active	On

The BPEL Processes tab lists all the deployed processes

2. Click the BPEL process that you want to test.
3. Click the Initiate tab.
4. On the Initiate tab, click the Include in Header checkbox next to WS-Security and expand the section.

## Configuring Oracle Business Approvals Connector for Sales Managers

BPEL Process: WorklistVersionCheck Version: 1.0 Lifecycle: Active  
Statistics: 0 Open Instances | 588 Closed Instances

Manage	Initiate	Descriptor	WSDL	Sensors	Source	Test Suites
Testing this BPEL Process						
<b>Initiating a test instance</b> To create a new 'test' instance of this BPEL Process, fill this form and click on the 'Post XML Message' button.						
<input type="radio"/> Operation process <input checked="" type="radio"/> HTML Form <input type="radio"/> XML Source						
<input type="checkbox"/> WS-Security <input checked="" type="checkbox"/> Include In Header						
<input type="text"/> User Name xsd:string						
<input type="text"/> Password xsd:string						
<input type="checkbox"/> WS-Addressing <input type="checkbox"/> Include In Header						
<input type="checkbox"/> payload						
<input type="text"/> CheckMode CONNECTOR string						
<i>Note: XML source view contents will not be reflected in the HTML form view</i>						
<input type="checkbox"/> Save Test						
<input type="checkbox"/> Perform stress test						
<input type="button" value="Post XML Message"/>						

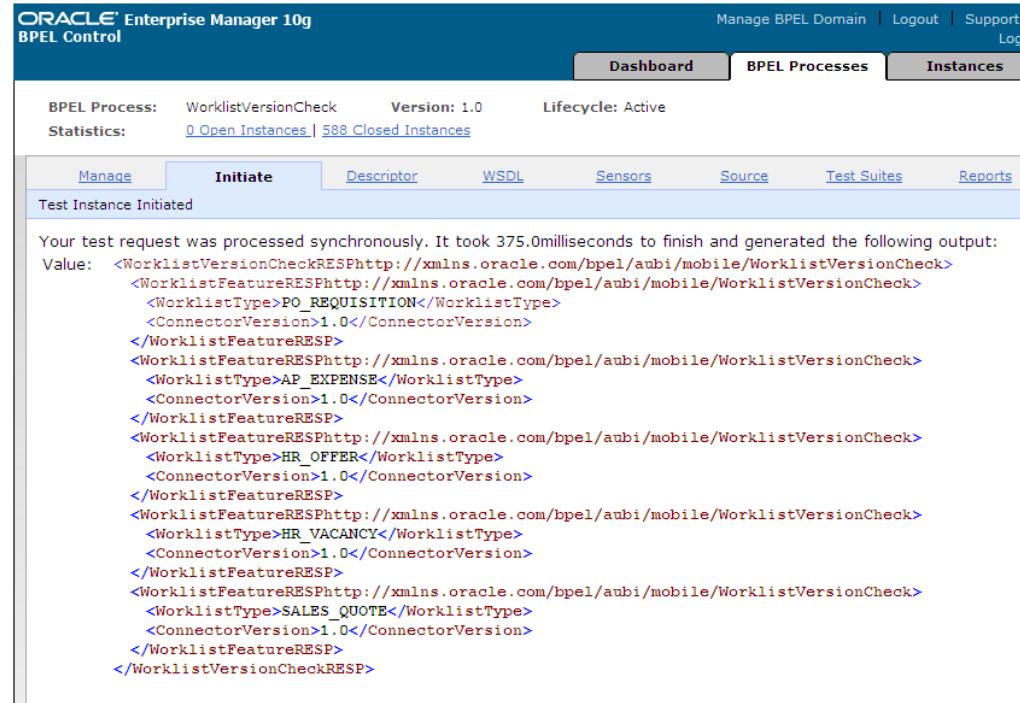
### Example of testing the BPEL process – WorklistVersionCheck

**Note:** If Siebel 8.1 is the back-end EIS, you cannot use the user/password HTML form. Instead, you must use the 2002 draft version of the WS-Security header. Siebel will ignore the OASIS name-spaced WS-Security element. For example:

```
<wsse:Security
  xmlns:wsse="http://schemas.xmlsoap.org/ws/2002/07/secext"
  xmlns="http://schemas.xmlsoap.org/ws/2002/07/secext"
  xmlns:env="http://schemas.xmlsoap.org/soap/envelope/"
  soap:mustUnderstand="1">
  <wsse:UsernameToken
    xmlns:wsse="http://schemas.xmlsoap.org/ws/2002/07/secext"
    xmlns="http://schemas.xmlsoap.org/ws/2002/07/secext">
    <wsse:Username>MSTERN</wsse:Username>
    <wsse:Password
      Type="wsse:PasswordText">MSSQL</wsse:Password>
  </wsse:UsernameToken>
```

5. Enter a user name and password to test if the BPEL process will retrieve the appropriate information.

## Configuring Oracle Business Approvals Connector for Sales Managers



The screenshot shows the Oracle Enterprise Manager 10g BPEL Control interface. The top navigation bar includes links for 'Manage BPEL Domain', 'Logout', 'Support Log', and 'Instances'. Below the navigation is a sub-menu with 'Dashboard', 'BPEL Processes', and 'Instances'. The main content area displays a BPEL Process named 'WorklistVersionCheck' with a Version of 1.0 and an Active Lifecycle. It shows 0 Open Instances and 588 Closed Instances. Below this, a sub-menu has 'Manage' (selected), 'Initiate', 'Descriptor', 'WSDL', 'Sensors', 'Source', 'Test Suites', and 'Reports'. A message 'Test Instance Initiated' is displayed. The main content area contains a large block of XML code representing the test output, which includes various worklist types and connector versions.

```
Value: <WorklistVersionCheckRESP>http://xmlns.oracle.com/bpel/aubi/mobile/WorklistVersionCheck</WorklistVersionCheckRESP>
<WorklistFeatureRESP>http://xmlns.oracle.com/bpel/aubi/mobile/WorklistVersionCheck</WorklistFeatureRESP>
<WorklistType>PO_REQUSITION</WorklistType>
<ConnectorVersion>1.0</ConnectorVersion>
</WorklistFeatureRESP>
<WorklistFeatureRESP>http://xmlns.oracle.com/bpel/aubi/mobile/WorklistVersionCheck</WorklistFeatureRESP>
<WorklistType>AP_EXPENSE</WorklistType>
<ConnectorVersion>1.0</ConnectorVersion>
</WorklistFeatureRESP>
<WorklistFeatureRESP>http://xmlns.oracle.com/bpel/aubi/mobile/WorklistVersionCheck</WorklistFeatureRESP>
<WorklistType>HR_OFFER</WorklistType>
<ConnectorVersion>1.0</ConnectorVersion>
</WorklistFeatureRESP>
<WorklistFeatureRESP>http://xmlns.oracle.com/bpel/aubi/mobile/WorklistVersionCheck</WorklistFeatureRESP>
<WorklistType>HR_VACANCY</WorklistType>
<ConnectorVersion>1.0</ConnectorVersion>
</WorklistFeatureRESP>
<WorklistFeatureRESP>http://xmlns.oracle.com/bpel/aubi/mobile/WorklistVersionCheck</WorklistFeatureRESP>
<WorklistType>SALES_QUOTE</WorklistType>
<ConnectorVersion>1.0</ConnectorVersion>
</WorklistFeatureRESP>
</WorklistVersionCheckRESP>
```

Successful example of testing WorklistVersionCheck – the BPEL process retrieved information about the application version

---

# Configuring Connector Security

This chapter includes an overview and the following topic:

- Configuring Access to BPEL Web Service Processes

## Overview

Oracle Business Approvals for Sales Managers client application on the Apple iPhone sends the user and password to the server using standard WS-Security UsernameToken elements. The password is in plain-text in the SOAP headers. Therefore, the connection from the Apple iPhone to the servers must use HTTPS over SSL. In addition, you should ensure that the server log settings do not log incoming SOAP header information, especially for production servers.

The 2002 draft WS-Security standard is used to format the user name and password in the SOAP header. Siebel 8.1 does not yet support the official version. However, WSM handles this standard transparently.

The WS-Security header is propagated to Siebel for authentication. The BPEL flow does not inspect this header, it only propagates it. Therefore, a filter system, such as WSM, can reformat this header if Siebel is set up to expect a different WS-Security scheme.

## Configuring Access to BPEL Web Service Processes

Use Oracle Web Services Manager to set up security for clients to access BPEL web service processes. This setup involves these tasks:

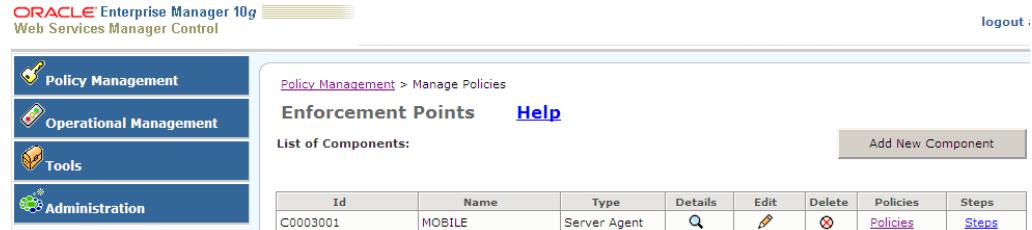
- Adding a New Server Agent Component
- Adding a Policy
- Enabling Server Agent Components
- Associating a Web Service with this Server Agent

## Configuring Connector Security

### Adding a New Server Agent Component

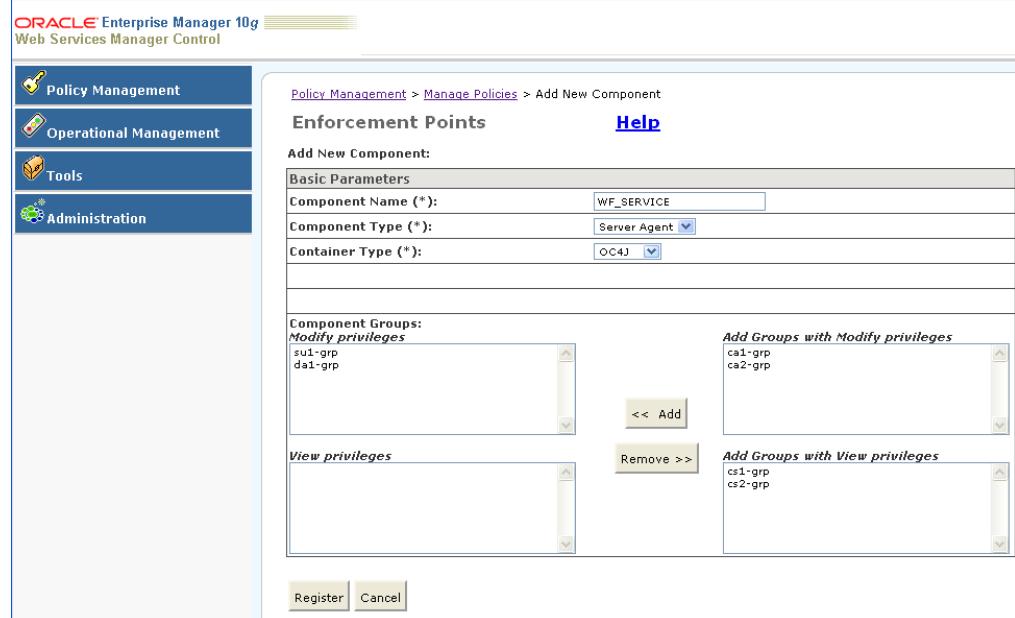
To add a new server agent component:

1. Log in to Oracle Enterprise Manager.
2. Click the Add New Component button.



List of Components:							
Id	Name	Type	Details	Edit	Delete	Policies	Steps
C0003001	MOBILE	Server Agent				<a href="#">Policies</a>	<a href="#">Steps</a>

3. On Enforcement Points, click the drop-down menu for Component Type and select Server Agent.



4. Click the Register button.

Oracle Enterprise Manager adds the new server agent component.



List of Components:							
Id	Name	Type	Details	Edit	Delete	Policies	Steps
C0003001	MOBILE	Server Agent				<a href="#">Policies</a>	<a href="#">Steps</a>
C0003003	WF_SERVICE	Server Agent				<a href="#">Policies</a>	<a href="#">Steps</a>

## Adding a Policy

To add a policy:

1. On Enforcement Points, click Policies next to the component to which you want to add a policy.
2. Click the Edit icon (pencil) next to Default Policy.

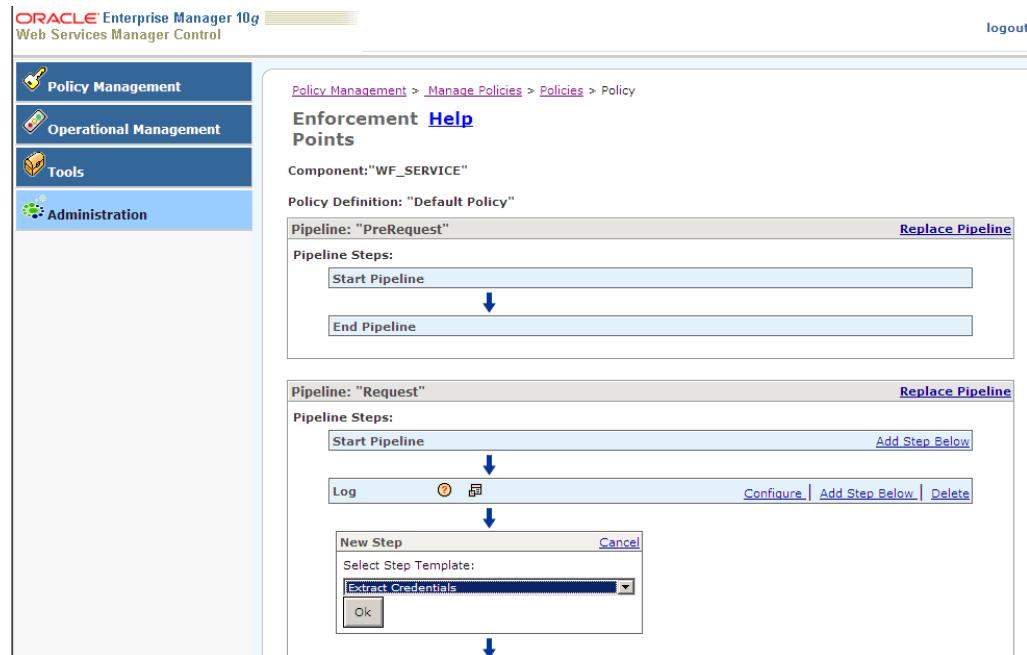
The screenshot shows the Oracle Enterprise Manager 10g Web Services Manager Control interface. The left sidebar has 'Policy Management' selected. The main content area shows an 'Enforcement Points' section for 'WF\_SERVICE' (Type: Server Agent). A table lists a 'Default Policy' with options to 'View Details', 'Edit', or 'Delete'. Below this is a 'Policy Set for Component: "C0003003"' table with a single row for 'Default Policy' and a 'Edit Mappings' button. The URL pattern '\*' is mapped to the policy name 'Default Policy'.

3. In the Pipeline: "Request" section, on the Log line, click Add Step Below.

The screenshot shows the Oracle Enterprise Manager 10g Web Services Manager Control interface. The left sidebar has 'Policy Management' selected. The main content area shows the 'Pipeline: "Request"' section. It contains a 'Pipeline Steps' list with 'Start Pipeline' at the top, followed by 'Log', 'Extract Credentials', 'Insert WS BASIC Credentials Step', and 'File Authenticate'. Each step has 'Configure', 'Add Step Below', and 'Delete' options.

## Configuring Connector Security

4. In the New Step area, click the Select Step Template drop-down menu and select Extract Credentials.



5. Click OK.
6. Click Configure next to Extract Credentials and enter WS-BASIC for the value.
7. Click OK.

## Configuring Connector Security

Configure Step Help

Pipeline: "Request"

Configure pipeline step

Pipeline Step Name: Extract Credentials

Extract Credentials				Environment Properties
Basic Properties	Type	Default	Value	
Enabled (*)	boolean	true	<input checked="" type="radio"/> true <input type="radio"/> false	
<b>Extract Credentials Properties</b>				
Properties	Type	Default	Value	
Credentials location (*)	string	HTTP	WS-BASIC	
Namespaces	string			
UserID xpath	string			
Password xpath	string			

Faults and Fault Handlers

Fault Code: <http://schemas.xmlsoap.org/ws/2003/08/Faults:AuthenticationFault> [Add Handler](#)

Ok Cancel

- For the Extract Credentials step, click Add Step Below, and select "Insert WS Basic Credentials Step."

Component: "WF\_SERVICE"

Policy Definition: "Default Policy"

Pipeline: "PreRequest" Replace Pipeline

Pipeline Steps:

Start Pipeline Replace Pipeline

End Pipeline

Pipeline: "Request" Replace Pipeline

Pipeline Steps:

Start Pipeline Add Step Below

Log Configure | Add Step Below | Delete

Extract Credentials Configure | Add Step Below | Delete

New Step Cancel

Select Step Template:

Insert WS BASIC Credentials Step

Ok

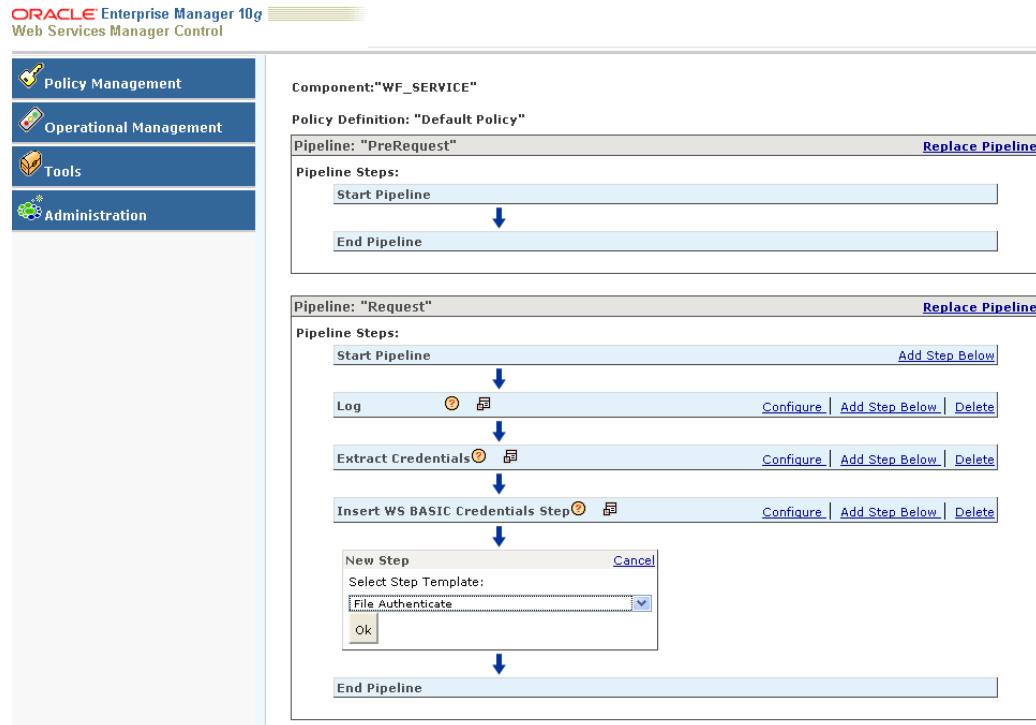
End Pipeline

- Click Ok.

## Configuring Connector Security

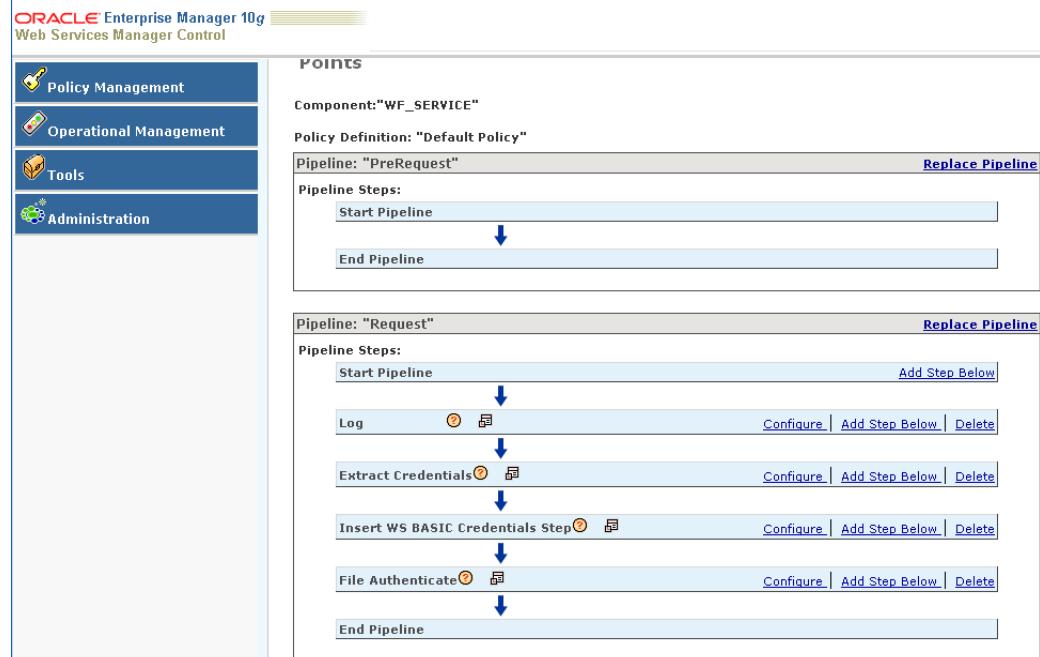
10. On the Insert WS Basic Credentials Step, click the Add Step Below link and then insert a step to authenticate, such as File Authenticate.

**Important!** Oracle Web Services Manager (OWSM) supports several authentication protocols. Your security policies might require more stringent security requirements.



11. Click OK.

12. On the File Authenticate step, click the Configure link.



13. On Configure Step, click Ok.

ORACLE Enterprise Manager 10g Web Services Manager Control

Policy Management > Manage Policies > Policies > Policy

**Configure Step** [Help](#)

Pipeline: "Request"

Configure pipeline step

Pipeline Step Name: File Authenticate

File Authenticate [Configure](#) [Add Step Below](#) [Delete](#)

Basic Properties	Type	Default	Value
Enabled (*)	boolean	true	<input checked="" type="radio"/> true <input type="radio"/> false

Authentication Properties	Type	Default	Value
Passwd file location (*)	string	.htpasswd	c:\passwd.txt
.htpasswd file format (*)	string	mixed	md5

Faults and Fault Handlers

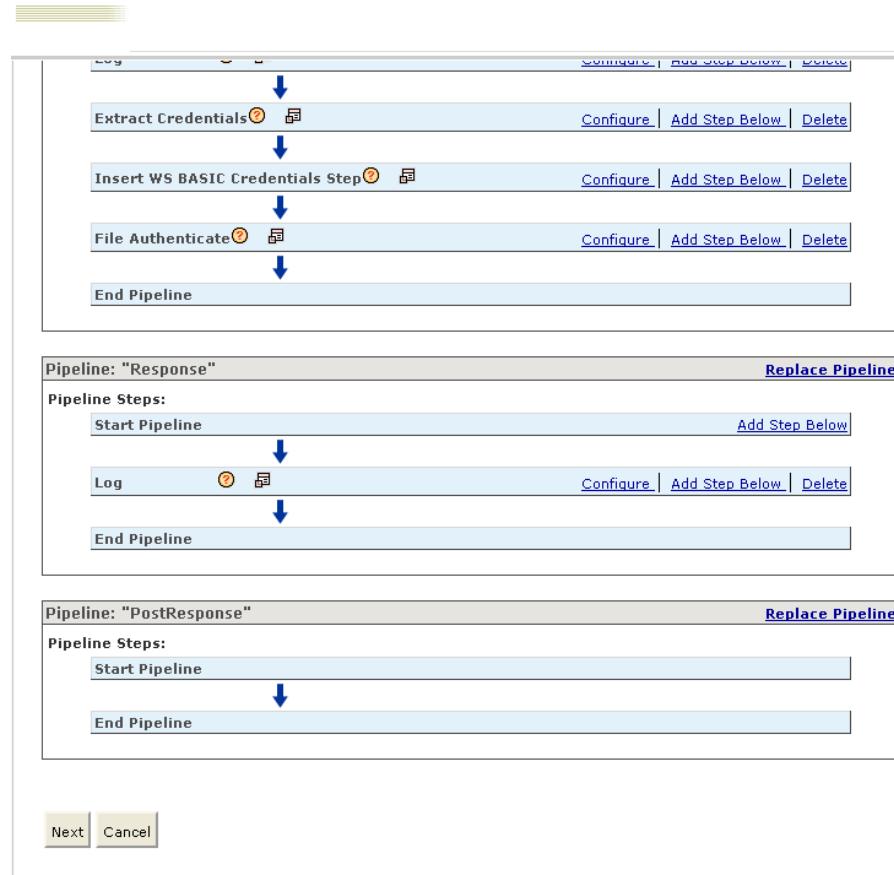
Fault code: <http://schemas.xmlsoap.org/ws/2003/08/Faults:AuthenticationFault> [Add Handler](#)

Ok Cancel

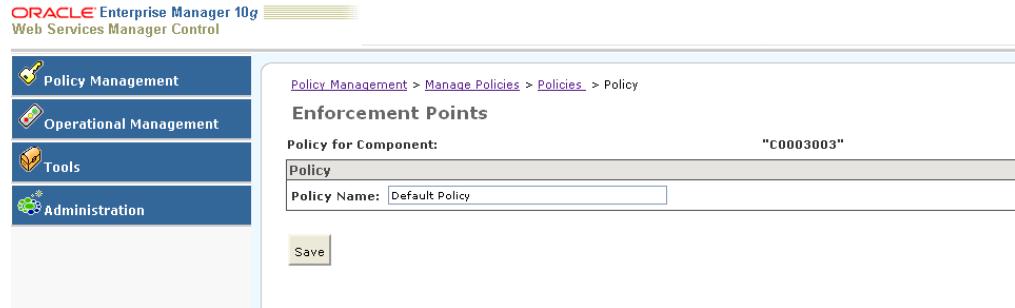
See "Using Oracle Web Services Manager to Secure Your Web Services" in the Oracle Web Services Manager Quick Start Guide for information about configuring various authentication methods, including setting up and encrypting a flat file (or text file) password.

14. Click Next.

## Configuring Connector Security



15. On Enforcement Points, click Save.



16. Next to Commit Policy, click Commit.

### Enforcement Points – Commit Policy

## Enabling Server Agent Components

After you commit the policy, run the script described in this section to enable the server agent components.

To enable server agent components:

1. On the OWSM server machine, set the `agent.component.id` property in the `agent.properties` file to the ID of the policy you created in the previous section. The `agent.properties` file is located in this directory:

`\SOA_Install\owsm\bin\`

For example, change the property to `C0003001`.

2. On the OWSM server machine, open the command line and run the following script:

Run `<SOA_Install>\owsm\bin\wsmadmin installAgent`

**Note:** The script prompts you to enter a password.

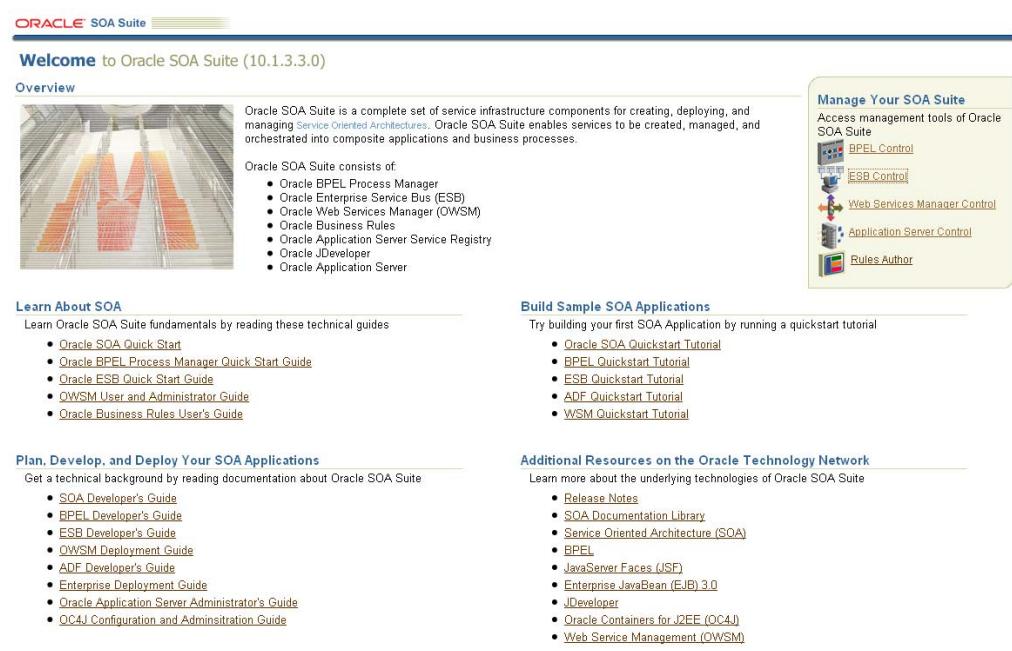
## Associating a Web Service to the Server Agent

You must associate a web service with the server agent that you created in the previous section.

To associate a web service to the server agent:

## Configuring Connector Security

1. On the Oracle SOA Suite Welcome page, click Application Server Control.



ORACLE SOA Suite

Welcome to Oracle SOA Suite (10.1.3.3.0)

Overview

Oracle SOA Suite is a complete set of service infrastructure components for creating, deploying, and managing Service Oriented Architectures. Oracle SOA Suite enables services to be created, managed, and orchestrated into composite applications and business processes.

Oracle SOA Suite consists of:

- Oracle BPEL Process Manager
- Oracle Enterprise Service Bus (ESB)
- Oracle Web Services Manager (OWSM)
- Oracle Business Rules
- Oracle Application Server Service Registry
- Oracle JDeveloper
- Oracle Application Server

Learn About SOA

Learn Oracle SOA Suite fundamentals by reading these technical guides

- [Oracle SOA Quick Start](#)
- [Oracle BPEL Process Manager Quick Start Guide](#)
- [Oracle ESB Quick Start Guide](#)
- [OWSM User and Administrator Guide](#)
- [Oracle Business Rules User's Guide](#)

Plan, Develop, and Deploy Your SOA Applications

Get a technical background by reading documentation about Oracle SOA Suite

- [SOA Developer's Guide](#)
- [BPEL Developer's Guide](#)
- [ESB Developer's Guide](#)
- [OWSM Deployment Guide](#)
- [ADF Developer's Guide](#)
- [Enterprise Deployment Guide](#)
- [Oracle Application Server Administrator's Guide](#)
- [OC4J Configuration and Administration Guide](#)

Build Sample SOA Applications

Try building your first SOA Application by running a quickstart tutorial

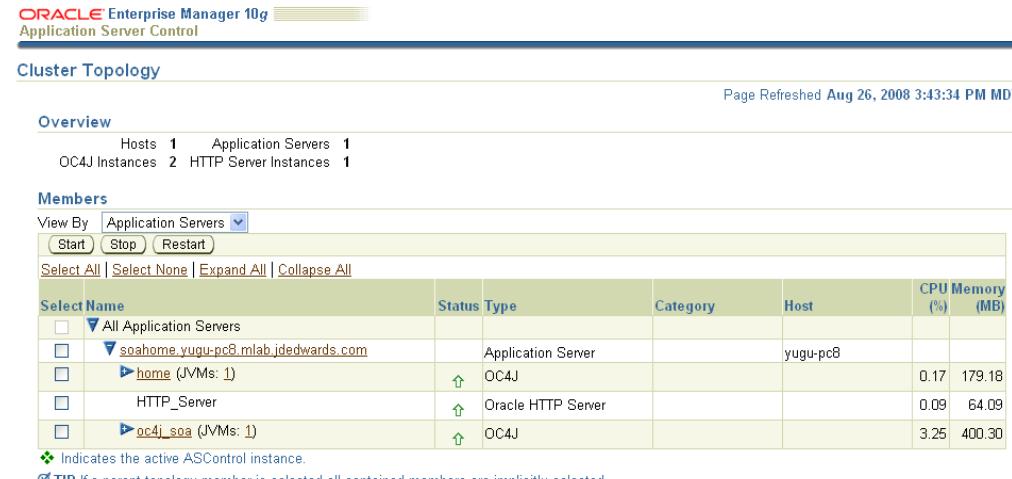
- [Oracle SOA Quickstart Tutorial](#)
- [BPEL Quickstart Tutorial](#)
- [ESB Quickstart Tutorial](#)
- [ADF Quickstart Tutorial](#)
- [WSM Quickstart Tutorial](#)

Additional Resources on the Oracle Technology Network

Learn more about the underlying technologies of Oracle SOA Suite

- [Release Notes](#)
- [SOA Documentation Library](#)
- [Service Oriented Architecture \(SOA\)](#)
- [BPEL](#)
- [JavaServer Faces \(JSF\)](#)
- [Enterprise JavaBean \(EJB\) 3.0](#)
- [JDeveloper](#)
- [Oracle Containers for J2EE \(OC4J\)](#)
- [Web Service Management \(OWSM\)](#)

2. Click the Application Server instance, which in this example is `oc4j_soa`



ORACLE Enterprise Manager 10g

Application Server Control

Cluster Topology

Page Refreshed Aug 26, 2008 3:43:34 PM PDT

Overview

Hosts 1 Application Servers 1  
OC4J Instances 2 HTTP Server Instances 1

Members

View By Application Servers

Start Stop Restart

Select All | Select None | Expand All | Collapse All

Select Name	Status	Type	Category	Host	CPU (%)	Memory (MB)
▼ All Application Servers						
soahome.yugu-pc8.mlab.jdedwards.com		Application Server		yugu-pc8		
▶ home (JVMs: 1)	▲	OC4J			0.17	179.18
HTTP_Server	▲	Oracle HTTP Server			0.09	64.09
▶ oc4j_soa (JVMs: 1)	▲	OC4J			3.25	400.30

❖ Indicates the active ASControl instance.

⌚ TIP If a parent topology member is selected all contained members are implicitly selected.

3. Click the Web Services tab.

ORACLE Enterprise Manager 10g Application Server Control

Cluster Topology > Application Server: soahome.yugu-pc8.mlab.jdedwards.com > OC4J: oc4j\_soa

Page: 1 of 1

Home Applications Web Services Performance Administration

Application: All

Test Service

Select	Port Name	Web Service	Application	Application Status	Port Enabled	Start Time	Invocation Count
<input checked="" type="radio"/>	ExpenseRetrievalPort	ExpenseRetrieval	orabpel			Aug 26, 2008 3:34:59 PM MDT	
<input type="radio"/>	IdentityConfigServicePort	IdentityService	hw_services			Aug 25, 2008 4:05:17 PM MDT	
<input type="radio"/>	IdentityServicePort	IdentityService	hw_services			Aug 25, 2008 4:05:17 PM MDT	
<input type="radio"/>	OfferRetrievalPort	OfferRetrieval	orabpel			Aug 25, 2008 5:44:25 PM MDT	
<input type="radio"/>	POReqRetrievalPort	POReqRetrieval	orabpel			Aug 25, 2008 4:04:44 PM MDT	
<input type="radio"/>	ReqInfoUsersRetrievalPort	ReqInfoUsersRetrieval	orabpel			Aug 25, 2008 4:04:43 PM MDT	
<input type="radio"/>	TaskActionHandlerPort	TaskActionHandler	orabpel			Aug 25, 2008 4:04:47 PM MDT	
<input type="radio"/>	TaskActionHistoryRetrievalPort	TaskActionHistoryRetrieval	orabpel			Aug 25, 2008 4:04:42 PM MDT	
<input type="radio"/>	TaskAttributesRetrievalPort	TaskAttributesRetrieval	orabpel			Aug 25, 2008 4:04:41 PM MDT	
<input type="radio"/>	TaskClosePort	TaskClose	orabpel			Aug 25, 2008 4:04:41 PM MDT	
<input type="radio"/>	TaskManagerPort	TaskManager	orabpel			Aug 25, 2008 4:04:47 PM MDT	
<input type="radio"/>	TaskMetadataServicePort	TaskMetadataService	hw_services			Aug 25, 2008 4:04:59 PM MDT	
<input type="radio"/>	TaskQueryServicePort	TaskQueryService	hw_services			Aug 25, 2008 4:04:59 PM MDT	

The Web Services tab lists all the BPEL web services that you deployed and need secured by OWSM.

4. Secure all BPEL web services, except for TaskActionHandler and TaskManager, by completing these steps:
  - a. Select a port name associated with a web service, and then click the Administration tab.

ORACLE Enterprise Manager 10g Application Server Control

Cluster Topology > Application Server: soahome.yugu-pc8.mlab.jdedwards.com > OC4J: oc4j\_soa > Application: orabpel >

Confirmation

Your changes have been applied.

Web Service: ExpenseRetrievalPort

Home Operations Administration

This table lists the management features available. You can customize the configuration of these management features and selectively enable/disable feature management feature will only affect the runtime when the feature is enabled.

Enable/Disable Features			
Feature	Edit Configuration	Enabled	Description
Auditing			Record message contents for purpose of auditing and/or non-repudiation.
Reliability			Configure port level reliability characteristics for web service messages.
Security			Configure security features to be applied to web service requests and responses.
Tracing			Extract contents of messages and store them.
Web Services Agent			Configure the Web Services agent for Oracle Web Services Manager.

Diagnostics

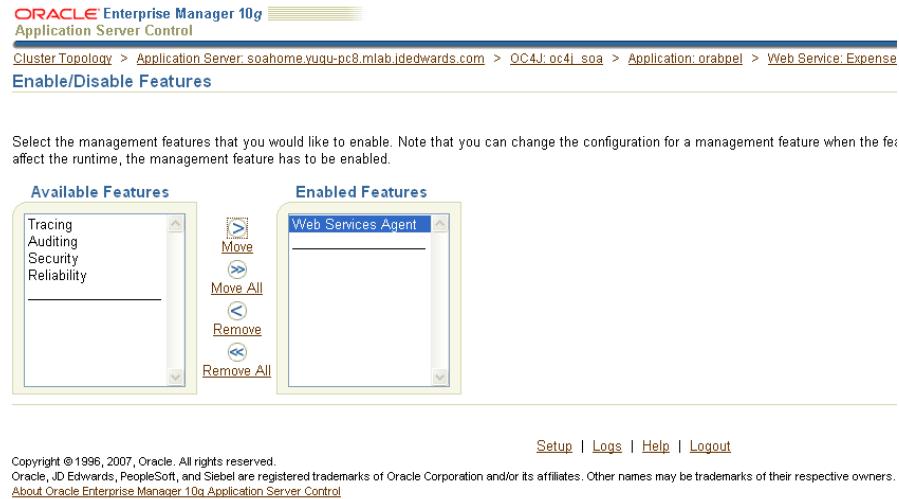
Diagnostic Logger Configuration

Home Operations Administration

- b. Click the Enable/Disable Features button to enable the port.

## Configuring Connector Security

c. On Enable/Disable Features, move the Web Services Agent to the Enabled Features box.



Select the management features that you would like to enable. Note that you can change the configuration for a management feature when the feature is enabled. The configuration changes will only affect the runtime, the management feature has to be enabled.

Available Features

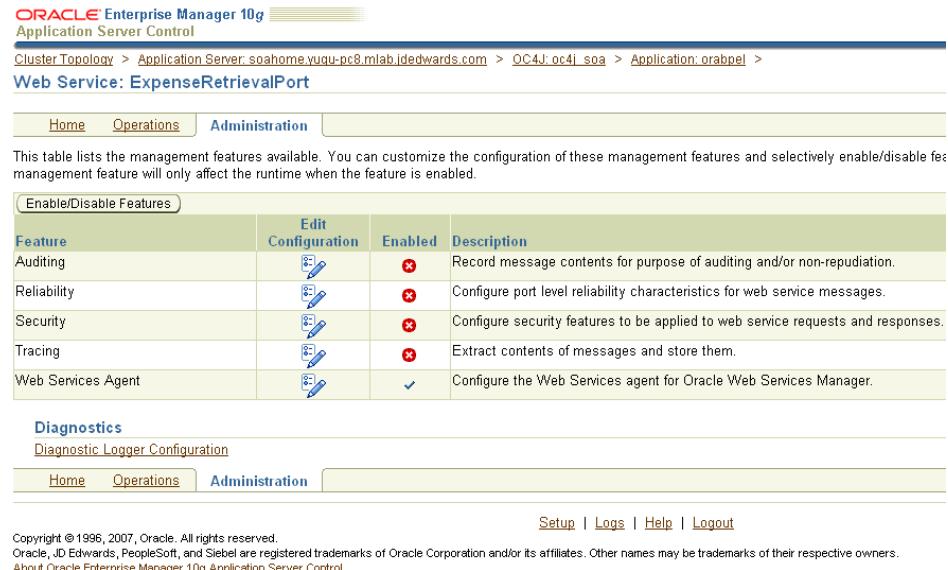
Enabled Features

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About Oracle Enterprise Manager 10g Application Server Control

Setup | Logs | Help | Logout

d. Click OK.

e. In the Web Services Agent row, click the Edit Configuration icon.



Available Features

Enabled Features

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About Oracle Enterprise Manager 10g Application Server Control

Setup | Logs | Help | Logout

f. Enter the server agent ID and click Ok.

g. Repeat these steps for each BPEL web service before continuing.

5. When finished securing the BPEL web services, restart Oracle SOA Suite.