JD Edwards World

Service Enablement Installation and Configuration Guide for A9.3

Release A9.3

E21965-04

March 2018



JD Edwards World Service Enablement Installation and Configuration Guide for A9.3, Release A9.3

E21965-04

Copyright © 2013, 2018, Oracle and/or its affiliates. All rights reserved.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Pr	eface		V			
	Audie	nce	. v			
		nentation Accessibility				
		d Documents				
	Conve	entions	. v			
1	Install Service Enablement					
	1.1	Overview	1-1			
	1.2	Installing Service Enablement	1-1			
2	WebLogic Application Server					
	2.1	Web Services Overview	2-1			
	2.2	WebLogic Application Server	2-1			
	2.2.1	Before You Begin	2-1			
	2.2.2	Configuring the WebLogic Application Server	2-1			
3	WebSphere Application Server					
	3.1	Installing the WebSphere Application Server	3-1			
Α	Install WebLogic Application Server					
	A.1	Installing WebLogic Application Server	A-1			
В	Create WebSphere Application Server					
	B.1	Creating Application Servers in WebSphere	B-1			
С	Code and Deploy your own Web Services					
	C.1	Coding and Deploying Your Own Web Services	C-1			
D	Add Web Services to Oracle Enterprise Repository					
	D.1	Web Services Deployment and Java Documents Location Update	D-1			

E Uninstall Service Enablement

E.1	Uninstalling Service Enablement	E-1
E.1.1	Oracle Universal Installer (OUI)	E-1

Preface

Welcome to the JD Edwards World Service Enablement Installation and Configuration Guide.

Audience

This guide is intended for implementers and end users of JD Edwards World Service Enablement Installation and Configuration.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit

http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Documents

You can access related documents from the JD Edwards World Release Documentation Overview pages on My Oracle Support. Access the main documentation overview page by searching for the document ID, which is 1362397.1, or by using this link:

https://support.oracle.com/CSP/main/article?cmd=show&type=NOT&id=1362397.
1

Conventions

The following text conventions are used in this document:

Convention	Meaning
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.

Convention	Meaning
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

Install Service Enablement

This chapter contains these topics:

- Section 1.1, "Overview,"
- Section 1.2, "Installing Service Enablement."

1.1 Overview

Thank you for ordering JD Edwards World A9.2.1 Service Enablement. This Java-based service enablement product is a statement of Oracle's continued commitment to the JD Edwards World product family. Service Enablement allows you to integrate your JD Edwards World Software with other software packages through the use of Java-based Web services.

This guide explains installation and configuration options and steps for JD Edwards World Service Enablement. The *JD Edwards World Web Enablement Installation and* Configuration Guide has general information about JD Edwards World Service Enablement.

Note: In this guide, the name System i includes IBM servers named AS/400, eServer iSeries, System i5, System i or Power Servers running the IBM i for Business operating system.

1.2 Installing Service Enablement

To install Service Enablement

1. Download and unzip the service enablement archive file.

Start the Oracle Universal Installer (OUI).

Run Disk1\oui\bin\setup.exe from your extract to location.

of Oracle Universal Installer: Welcome ORACLE JD EDWARDS WORLD Welcome The Oracle Universal Installer guides you through the installation and configuration of your Oracle products Click "Installed Products..." to see all installed products. Deinstall Products About Gracle Universal Installer...)

Next

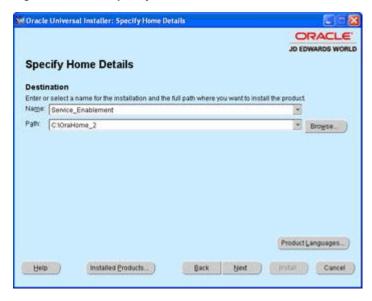
Figure 1-1 Oracle Universal Installer Welcome screen

2. On the Welcome screen, click Next.

Installed Products...)

Help)

Figure 1-2 OUI Specify Home Details screen



- On the Specify Home Details screen, enter a folder Name and Path for your installation. JD Edwards World recommends that you retain the OraHome name in some form for your path directory.
 - Using the OraHome name is an Oracle convention that facilitates consistent directory names among Oracle product installations.

Figure 1–3 OUI Summary screen



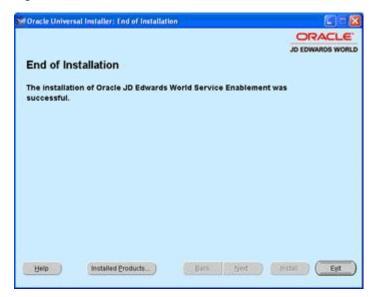
On the Summary screen, click Install.

Figure 1-4 OUI Install screen



The Install screen displays the Setup in progress.

Figure 1–5 OUI End of Installation screen



5. On the End of Installation screen, click Exit.

Figure 1-6 Exit window



6. On the Exit screen, click Yes.

WebLogic Application Server

This chapter contains these topics:

- Section 2.1, "Web Services Overview,"
- Section 2.2, "WebLogic Application Server."

2.1 Web Services Overview

You must deploy the World Web Service EAR file to an Oracle WebLogic or IBM WebSphere application server. For more information about release requirements, see the JD Edwards World Minimum Technical Requirements Guide and A9.2.1. All necessary Java security setup occurs after deployment. This guide contains specific deployment and security setup instructions for both application servers. Make sure you have installed and configured the application server before deploying the EAR file.

2.2 WebLogic Application Server

2.2.1 Before You Begin

You need to configure an appropriate WebLogic Application Server using the procedure in Appendix A, "Install WebLogic Application Server" in this guide.

2.2.2 Configuring the WebLogic Application Server

To configure the WebLogic Application Server

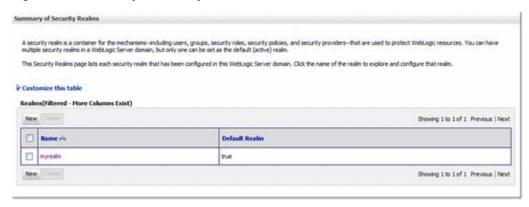
- **1.** Start the WebLogic Admin Server:
 - %SystemRoot%\system32\cmd.exe /k"C:\Oracle\Middleware\user_ projects\domains\base_domain\bin\startWebLogic.cmd"
- **2.** Launch the application server console:
 - http://localhost:7001/console
- **3.** From WebLogic console select Security Realms to create a Security Realm. Click New.

Figure 2-1 Create a New Realm screen



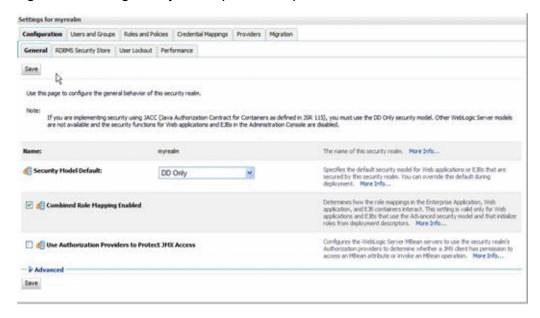
4. Enter a Realm Name and then click OK.

Figure 2-2 Summary of Security Realms screen



5. Click New to create a realm.

Figure 2-3 Settings for MyRealms (General Tab) screen



6. Select the Providers tab and then click New.

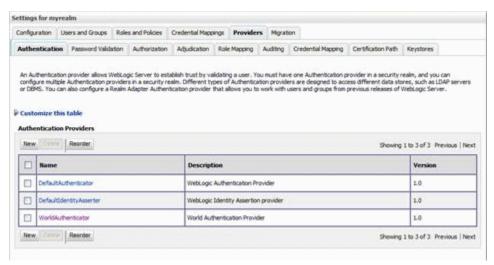
Figure 2-4 Create a New Authentication Provider screen



7. Enter the Name and select the Type WorldAuthenticator from the dropdown list. Click OK.

The WorldAuthenticator displays as one of the Authentication Providers.

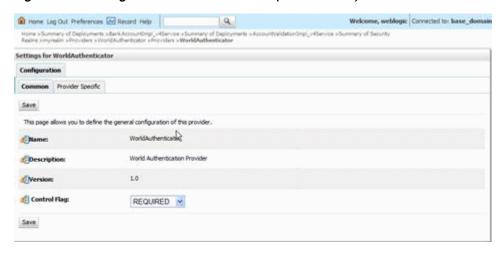
Figure 2-5 Settings for MyRealm (Authentication Tab) screen



Make sure the WLS DefaultAuthenticator is before the WorldAuthenticator.

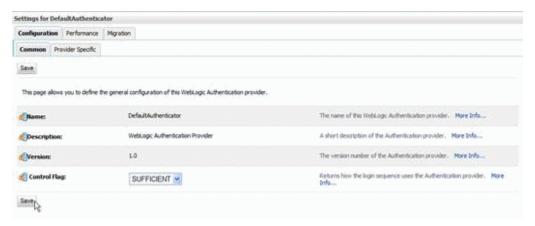
8. Click the WorldAuthenticator link.

Figure 2-6 Settings for WorldAuthentication (Common Tab) screen



Set the Control Flag to REQUIRED and then click Save.

Figure 2–7 Settings for Default Authenticator (Common Tab) screen



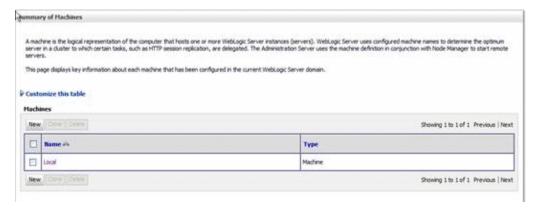
10. Select the DefaultAuthenticator link and Change the Control Flag of the DefaultAuthenticator to SUFFICIENT.

Click Save.

11. Create a machine. Use the default values.

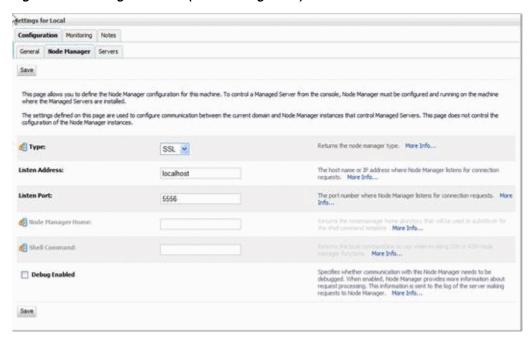
http://localhost:7001/consolehelp/console-help.portal?_nfpb=true&_ pageLabel=page&helpId=machines.ConfigureMachines

Figure 2-8 Summary of Machines screen



12. Select Local Machine.

Figure 2-9 Settings for Local (Mode Manager Tab) screen



13. Create a managed server for the Web Services.

http://localhost:7001/consolehelp/console-help.portal?_nfpb=true&_ pageLabel=page&helpId=domainconfig.CreateManagedServers

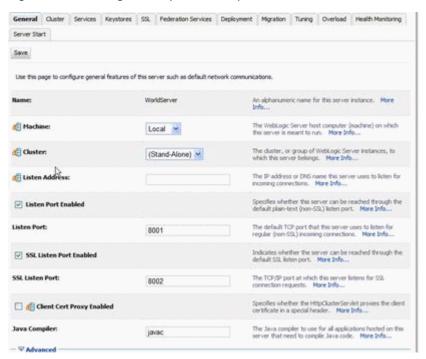
Summary of Servers Configuration Control A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (JVM) and has its own configuration. This page summarizes each server that has been configured in the current WebLogic Server domain. Customize this table Servers (Filtered - Hore Columns Exist) Showing 1 to 2 of 2 Previous | Next Name @ Cluster Hachine State Listen Port AdminServer (admin) RUNNING **₽**OK 7001 ☐ WorldServer Local UNIONOWN 8001 New Care Cress Showing 1 to 2 of 2 Previous | Next

Figure 2-10 Summary of Servers (Configuration Tab) screen

14. Select WorldServer.

Set Machine to machine configured in step 12.

Figure 2-11 Configuration (General tab) screen



Services use the SSL port (https://). Make sure to verify that the SSL Listen Port is Enabled.

If using NodeManager to start and stop the managed server, select the Server Start tab and configure as the following graphic displays:

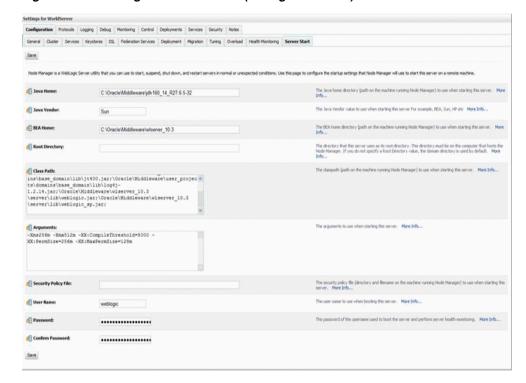


Figure 2–12 Settings for WorldServer (Configuration Tab) screen

Class Path:

\Oracle\Middleware\user_projects\domains\base_ domain\lib\BaseJar.jar;\Oracle\Middleware\user_projects\domain\base_ domain\lib\JDEWorldJDBC.jar;\Oracle\Middleware\user_ projects\domains\base_domain\lib\jt400.jar;\Oracle\Middleware\user_ projects\domains\base_ domain\lib\log4j-1.2.14.jar;\Oracle\Middleware\wlserver_ 10.3\server\lib\weblogic.jar;\Oracle\Middleware\wlserver_ 10.3\server\lib\weblogic_sp.jar;

Note: For details about the latest version supported for log4j, see Doc ID 2318897.1 in My Oracle Support. (WS: Instructions to Address JD Edwards World Security Vulnerabilities (Doc ID 2318897.1)(Release A9.3 Update)

Arguments:

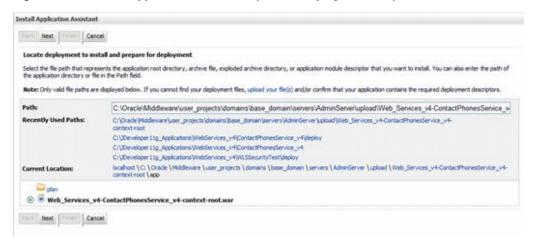
- -Xms256m -Xmx512m -XX:CompileThreshold=8000 -XX:PermSize=256m -XX:MaxPermSize=128m
- **15.** Deploy Services to managed server On Server Console, select Deployments.

Figure 2-13 Summary of Deployments (Control Tab) screen



16. Click Install.

Figure 2-14 Install Application Assistant (Locate Deployment Tab) screen



17. 17. Locate service WAR file and then click Next.

Figure 2–15 Install Application Assistant (Choose Targeting Style Tab) screen



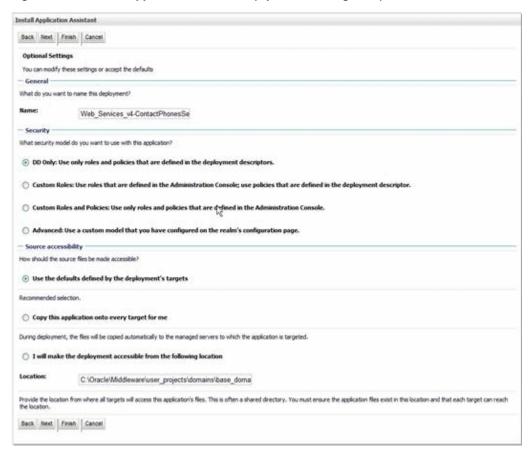
18. Select Install this deployment as an application and then click Next.

Figure 2–16 Install Application Assistant (Select Deployment Targets Tab) screen



19. Verify the managed server you created earlier, and click Next.

Figure 2–17 Install Application Assistant (Optional Settings Tab) screen



20. Click Finish.

Figure 2–18 Summary of Deployments (Control Tab) screen



The Summary of Deployments displays your service.

- **21.** Configure security for service (the service must be started).
- **22.** From the Deployments screen, expand the service you want to secure.

Figure 2-19 Expanded Service Deployment (Name) screen



23. Select the web service and then select the Configuration-> WS-Policy tab.

Figure 2-20 Settings for Contact Phones Implemented Service (Configuration Tab, WS-Policy Subtab) screen



24. Select the service.

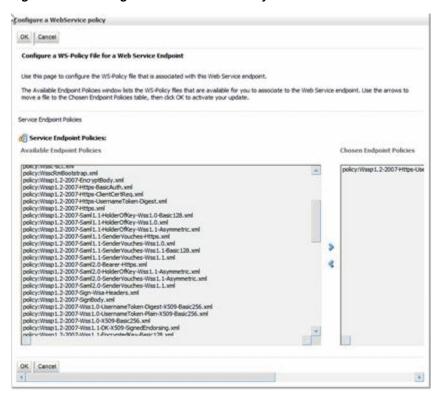


Figure 2-21 Configure a Web Service Policy screen

25. Select:

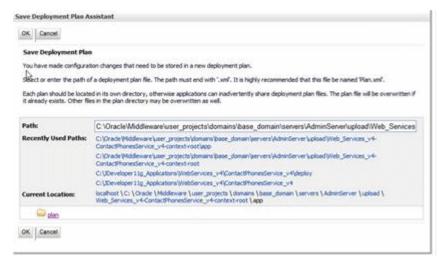
policy:Wssp1.2-2007-Https-UsernameToken-Plain.xml

Click the right arrow to move it from the Available Endpoint Policies to the Chosen Endpoint Policies area.

Click OK.

Save the deployment plan.

Figure 2-22 Save Deployment Plan Assistant screen



26. Click OK and then restart the server.

All web services need to specify a security string as part of the SOAP Header in the format DN=username, ADR=machineName, ENV=environment, for example:

<soapenv:Header>

<wsse:Security

xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecu rity-secext-1.0.xsd"

xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-s ecext-1.0.xsd" xmlns:env="http://schemas.xmlsoap.org/soap/envelope/" soapenv:mustUnderstand="1">

<wsse:UsernameToken

xmlns:wsse="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecu rity-secext-1.0.xsd"

xmlns="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-wssecurity-s ecext-1.0.xsd">

<username>DN=SOAPROXY,ADR=JDED, ENV=A93TS</username>

<wsse:Password

Type="http://docs.oasis-open.org/wss/2004/01/oasis-200401-wss-username-tok en-profile-1.0#PasswordText">edduser93</wsse:Password>

</wsse:UsernameToken>

</wsse:Security>

</soapenv:Header>

WebSphere Application Server

This chapter contains the topic:

Section 3.1, "Installing the WebSphere Application Server."

If you do not already have an appropriate WebSphere Application Server, create an application server. Refer to Appendix B, "Create WebSphere Application Server" in this guide.

3.1 Installing the WebSphere Application Server

To install the WebSphere Application Server

1. Start Application Server.

Launch the IBM Web Administrator for i: http://localhost:2001/HTTPAdmin

All HTTP Servers All Application Servers All ASI Tomcat Servers 15.0.2 18 Base # Stopped *2909.8880.9043.9080.9090 C debuttvervirt C SISSISTIONS VS 1.111 Express * 380pped *8220.6225.6229.6230.6231.6232 V50.29 ● Stopped **4521,4625,4629,4630,4631,4632 ALD70DOCWORLD70DOC V78.0.11 ND ◆ Stopped *19040,10041,10042,10043,10044,10045,10057,10057 Interfighers application server created by the Create Application 2007/81/27 0 2 V7.6.0.11 ND * Stopped * 10020, 10021, 10022, 10023, 10025, 10036, 10037 (Na6Ophere approals in server created by the Create Ap

Figure 3-1 IBM Web Administrator (Manage All Servers Tab) screen

Select the appropriate Application Server and then click Start.

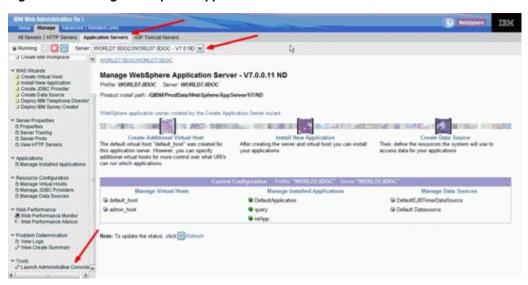
Figure 3-2 Start Page on the IBM Web Administrator screen



Click Start.

Launch Administrative Console.

Figure 3–3 Manage WebSphere Application Server screen



Select the Application Servers Tab then select the appropriate server from the Server dropdown box.

Click the Launch Administrative Console link.

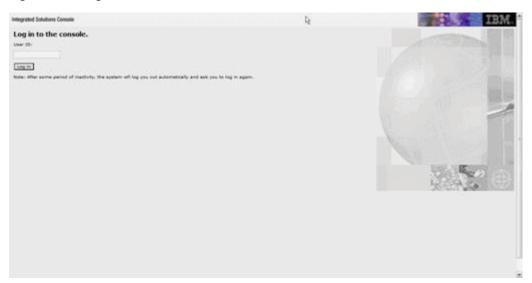
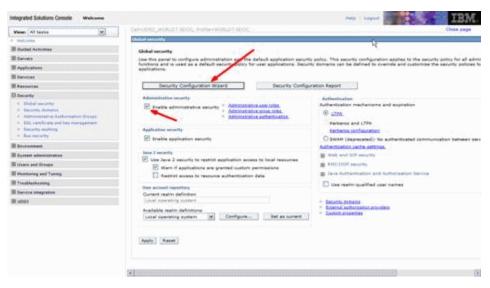


Figure 3-4 Log in to the Console screen

Leave the User ID blank and click Log in.

Figure 3-5 Global Security (Wizard Button) screen



Configure security for JAAS.

Open: Security - Global Security.

Select the Enable administrative security checkbox.

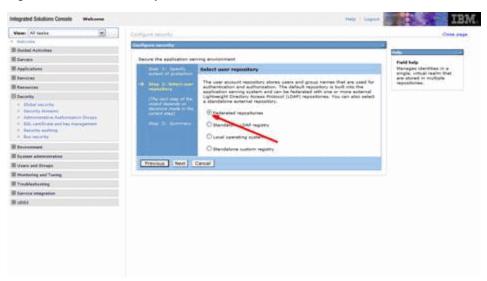
Click Security Configuration Wizard.

M. Applications III Hostoring and Turing Next Cancer Ill upoe

Figure 3–6 Specify Extent of Protection (Enable Application Security Button) screen

Select Enable application security and then click Next.

Figure 3-7 Federated Repositories Button



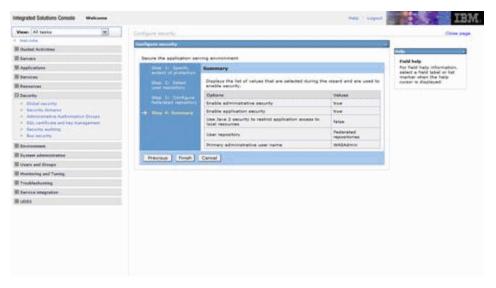
Select Federated repositories and then click Next.

III Applications III Heathering and Turing Ill upper

Figure 3-8 Primary Administrative User Name field

Enter Primary administrative user name and Password and then click Next.

Figure 3-9 Summary screen



10. Review settings and then click Finish.

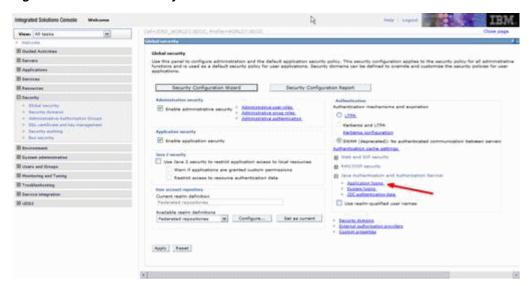
III Applications C LTDS. (2) Enable application security We larg 2 security to restrict as III Munitaring and Tuning M upper gin definitions repositories W Configure. But as current Apply Asset

Figure 3-10 SWAM Button on the Global Security screen

11. Select the Use SWAM -no authenticated communication between servers checkbox.

Click Apply and then click Save.

Figure 3-11 Global Security screen with Selection Noted



12. Add World Application login and configure custom login module.

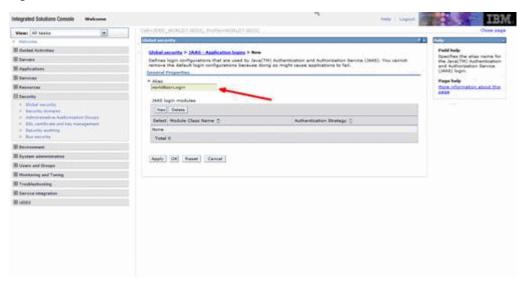
Open Security - Global Security - Java Authentication and Authorization Service -Application Logins.

IBM. Sobal accepts > SAAS - Application logins
Delines login configurations that are used by Israe(SM) Authentication and Authentication and Authentication that are used by Israe(SM) Authentication and Authentication is the surface should be surface application of the surface should be surface. Eleves B Applications II farmen COTTO D facility Delet Men 2 You are advantable the following resources: [] Dela-Manageltacom [] Anterioffsonts [] Installation Ill System administration C MANAGEMENT III Hostoring and Toming Total 6 Bucce

Figure 3-12 Global Security JAAS Application Login screen

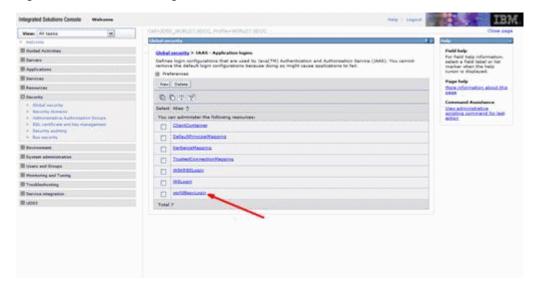
13. Click New.

Figure 3-13 Alias Field



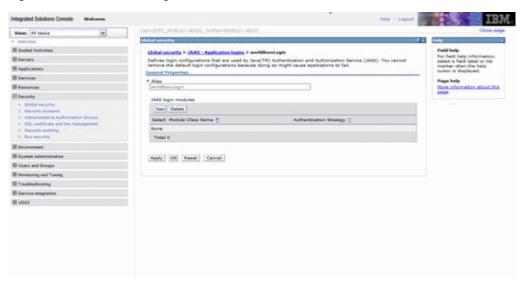
14. Enter the Alias: worldBssvLogin Click Apply.

Figure 3-14 WorldBssvLogin link



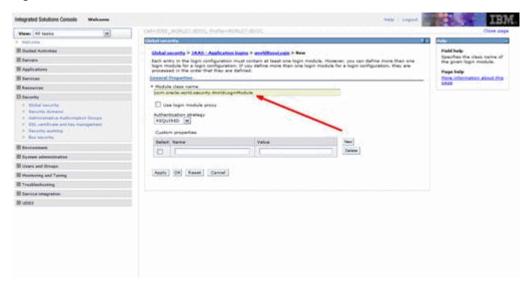
15. Click the worldBssvLogin link.

Figure 3-15 WorldBssvLogin screen



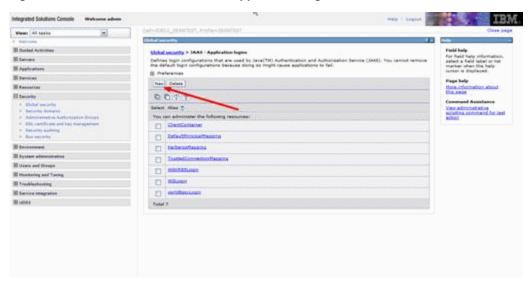
16. Click New.

Figure 3-16 Module Class Name field



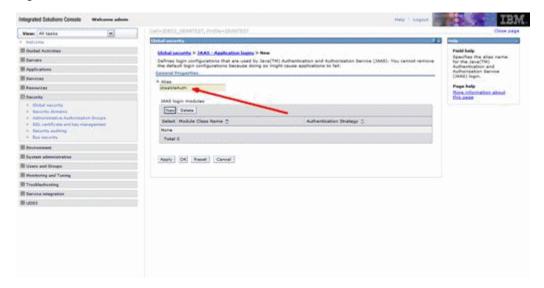
17. Enter full pathname for custom login module in the Module class name field. com. or a cle. world. security. World Login ModuleClick Apply.

Figure 3-17 New Button on the JAAS Application Login screen



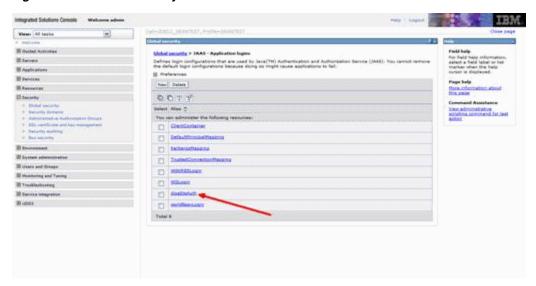
18. Navigate back to the JAAS - Application logins screen and then click New.

Figure 3–18 Alias field



19. Enter the Alias: disableAuth Click Apply.

Figure 3–19 Global Security screen with Selection Noted



20. Click the disableAuth link.

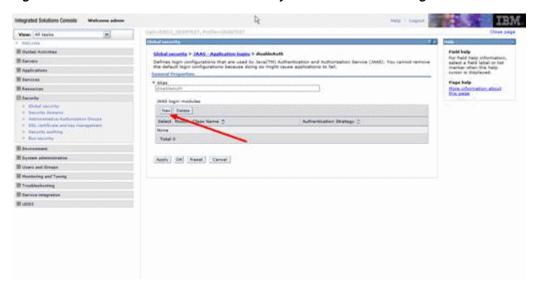
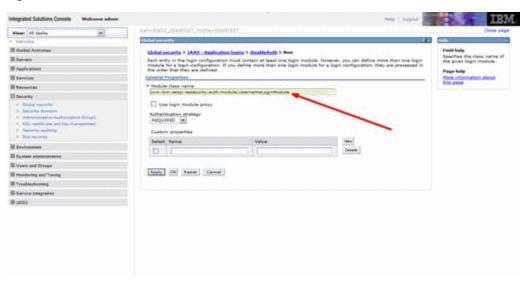


Figure 3-20 New button on the Global Security JAAS Authorization Login screen

21. Click New.

Figure 3-21 Module Class Name field



22. Enter full pathname for custom login module in the Module class name field. com.ibm.ws security. auth. module. Username Login Module

Click Apply.

You must logout of the Console and restart the server for these changes to take effect.

Click the Logout link in the upper right-hand corner of the Console.

Restart the server. Refer to Step 1, Start Application Server section of this document. Use the User name and Password you created when logging in after restarting the server.

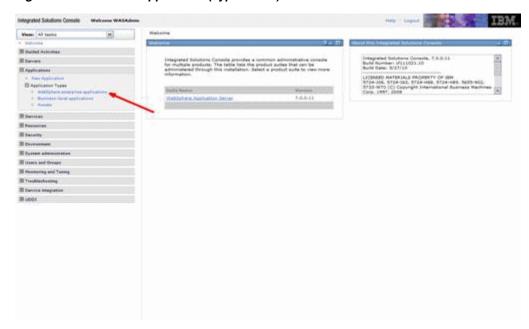
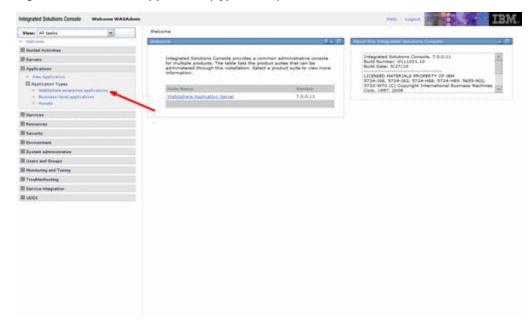


Figure 3–22 Correct Application (Type Noted) screen

23. Deploy Web Services EAR file.





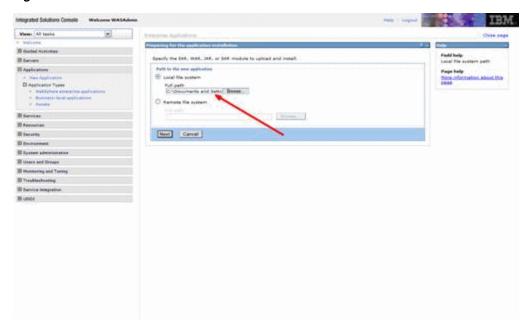
24. Open the Applications then click the WebSphere enterprise applications link.

Enterprise Applications Use the page to manage Blaves III Applications BOTT [1] Mass E frequence III tieses and Droger III Montaring and Turning El Darrica Integration

Figure 3-24 Enterprise Applications screen

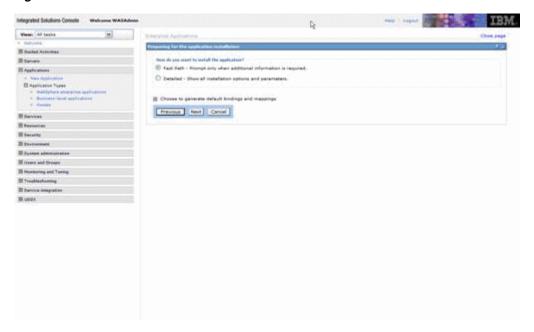
25. Click Install.

Figure 3-25 Full Path field



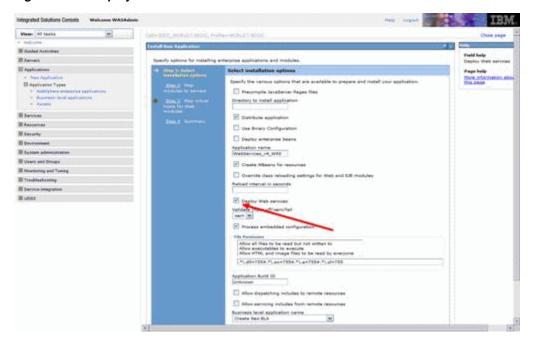
26. Enter the Full path to WebServices_v4_WAS.ear file and then click Next.

Figure 3-26 Next button



27. Click Next.

Figure 3-27 Deploy Web Services checkbox



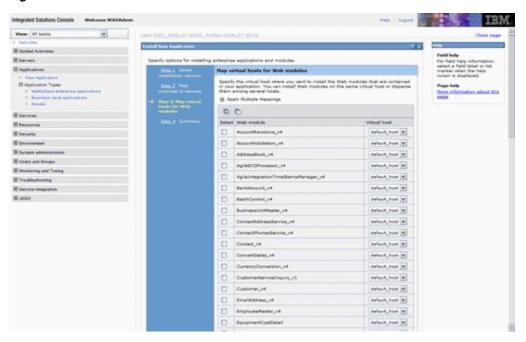
28. Select Deploy Web services and then click Next.

Ill farrers III Applications Outlier and several well-step, workprispop, workprispop, workprispop, sever-workprispop Apply III decrease 0.0 El Sacuray E Continued III Users and Droops El Hustoring and Toming Agricitothorsess/_v4 III Troublackooting Ryfel negration TimeStampManager_r4 Aging progration TimeStampManager_r4 is an WSB 387/web.sml El Sarvice integration ###Account_v4 Sariskessuri, pt. nat 1915-197 vals and ☐ SwetCores/Let Balan Central, yellows MRB-DW/was work Business/introductor_vil Summary of the Will Of task and | Authors/Hillington/4 | Submass/Hillington/Auto-Allin Diffred-And
| ContactAddressEarce_4 | ContactAddressEarce_54.act.9055 (Mired-and Weldshare cel 0 Convertibles, int. ser. WEB-187/web.com CurrentyConservor,y4 CurrencyConversion_v4.nac WSR-DV/valls.cml Continue_ot EmployeeMaster_i-5.ner/WEB-DV/veb.ord

Figure 3-28 Map Modules to Servers screen

29. Click Next.

Figure 3-29 Next screen



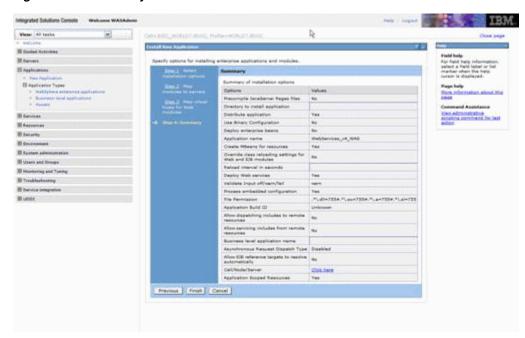
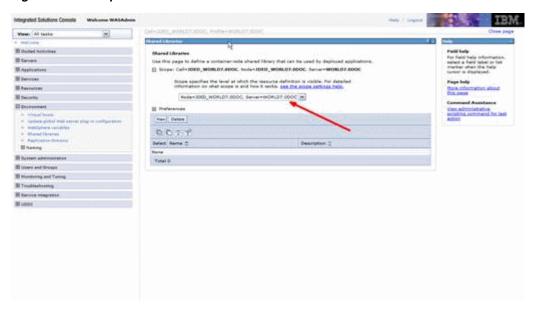


Figure 3-30 Summary screen with Finish button

- **31.** Click Finish.
- 32. Create Shared Libraries.

Figure 3-31 Dropdown List



33. Open the Environment and then click the Shared Libraries link. Select the appropriate Scope from the dropdown list and then click New.

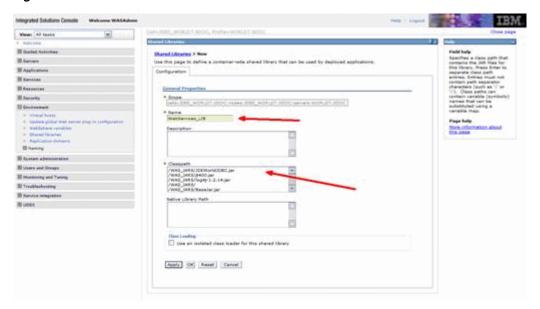


Figure 3-32 Shared Libraries screen

34. Enter WebServices_LIB in the Name field.

Enter the location of the JDEWorldJDBC.jar, jt400.jar, log4j jar, and the BaseJar.jar in the Classpath field.

Click OK.

For details about the latest version supported for log4j, see Doc ID 2318897.1 in My Oracle Support. (WS: Instructions to Address JD Edwards World Security Vulnerabilities (Doc ID 2318897.1)(Release A9.3 Update)

35. Copy jt400.jar, JDEWorldJDBC.jar, log4j jar, and BaseJar.jar to the IFS.

Copy all four files to the directory you specified in the Classpath field.

The JDEWorldJDBC.jar and the BaseJar.jar are included in the Web Services .zip file downloaded from the MyOracleSupport Web site.

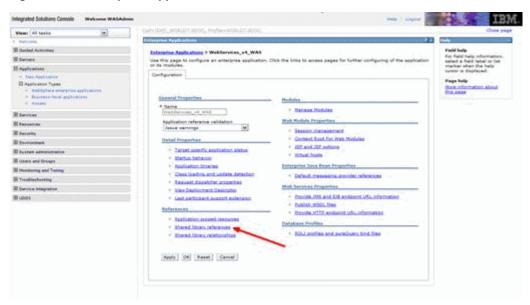
36. Associate WebSeverices_LIB Shared Library with the WebServices_v4_WAS Application.

III Shalled Automate Enterprise Applications Use this page to manage Il tavers El Applications E frequence III circum and Groups Mil Huntaring and Tuning III Service Integration.

Figure 3-33 Enterprise Applications screen

37. Open the Applications and then select the WebSphere enterprise applications link. Click the WebServices_v4_WAS link.

Figure 3–34 Enterprise Applications WebServices_v4_WAS screen



38. Click the Shared Library References link under References.

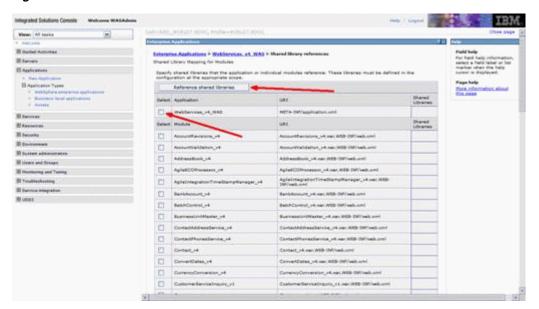
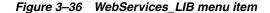
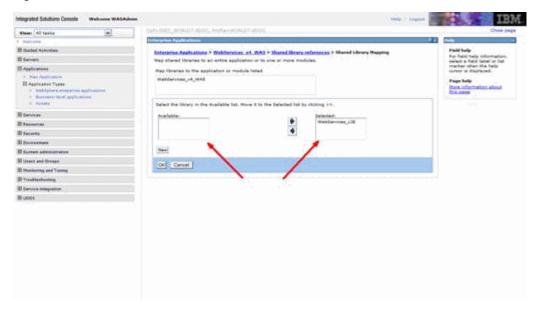


Figure 3-35 Reference Shared Libraries button

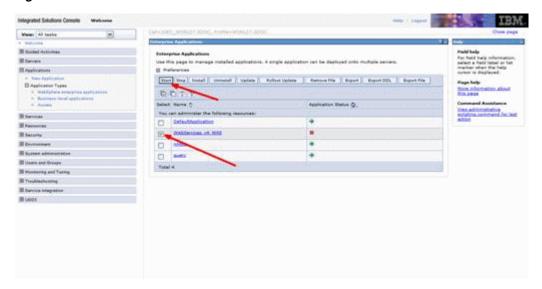
39. Select the WebServices_v4_WAS application box. Click Reference Shared Libraries.





- **40.** Select the WebServices_LIB Shared Library Reference using the arrow button Click OK.
- **41.** Start WebServices_v4_WAS application

Figure 3–37 Start button



42. Open Applications and then select the WebSphere enterprise applications link. $Select\ the\ WebServices_v4_WAS\ application.$ Click Start.

Install WebLogic Application Server

This appendix contains the topic:

Section A.1, "Installing WebLogic Application Server."

A.1 Installing WebLogic Application Server

To install WebLogic Application Server

1. Download Required Jars:

jt400.jar - retrieve from: http://jt400.sourceforge.net/

log4j - for details about the latest version supported for log4j, see Doc ID 2318897.1 in My Oracle Support. Use the following URL to access and sign in to My Oracle Support:

https://support.oracle.com

(WS: Instructions to Address JD Edwards World Security Vulnerabilities (Doc ID 2318897.1) (Release A9.3 Update)

WebLogic Installation Instructions

Download the WLS server installation file from OTN and install. Use the default values.

Figure A-1 Choose Middleware Home Directory screen

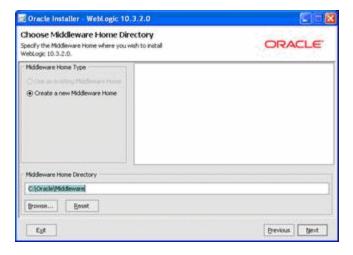
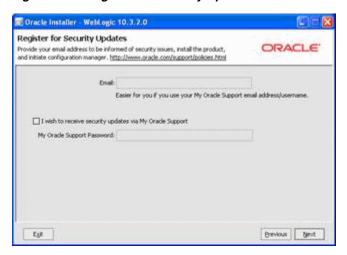


Figure A-2 Register for Security Updates screen



3. Click Next.

Figure A-3 Specify Download Options screen

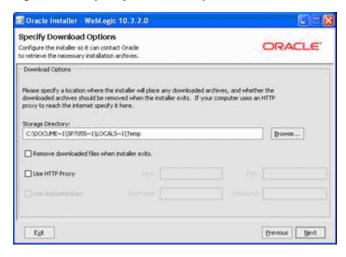
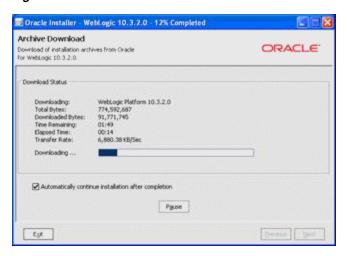


Figure A-4 Choose Install Type screen



Select Typical and then click Next.

Figure A-5 Archive Download screen



6. Click Next.

Figure A-6 Choose Product Installation Directories screen

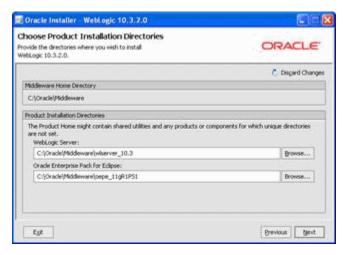
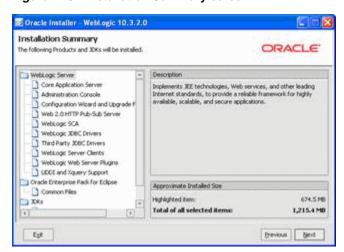


Figure A-7 Choose Shortcut Location screen



Click Next.

Figure A-8 Installation Summary screen



Configure the base_domain.

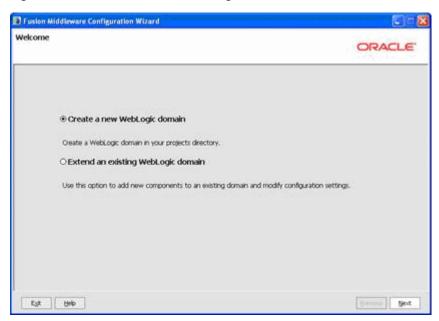
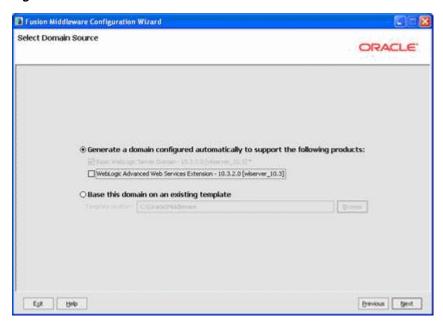


Figure A-9 Fusion Middleware Configuration Wizard Welcome screen

Start > Programs > Oracle Fusion Middleware 11.1.1.2.0 > WebnLogic Server 11gR1 > Tools > Configuration Wizard

Click Next.

Figure A-10 Select Domain Source screen

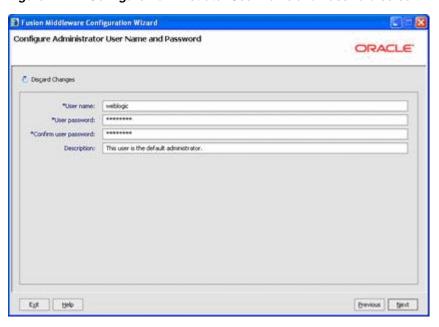


Tusion Middleware Configuration Wizard Specify Domain Name and Location ORACLE" Enter the name and location for the domain: Domain name: base_domain Domain location: C:\Oracle\Middle+\are\user_projects\u00e4domains Browse Brevious Next Eyz Heb

Figure A-11 Specify Domain Name and Location screen

11. Click Next.

Figure A-12 Configure Administrator User Name and Password screen



User Password:

"welcome1"

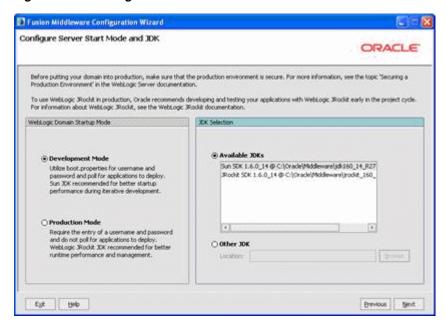
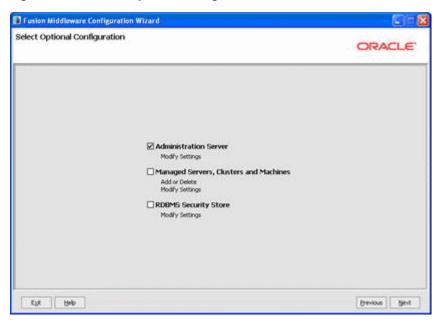


Figure A-13 Configure Server Start Mode and JDK screen

13. Click Next.

Figure A-14 Select Optional Configuration screen



14. Select:

Administration Server

Tusion Middleware Configuration Wizard Configure the Administration Server ORACLE! C Discard Changes "Name: AdminServer *Listen address: All Local Addresses SSL listers port: 7.7% SSL enabled:

Brevious Next

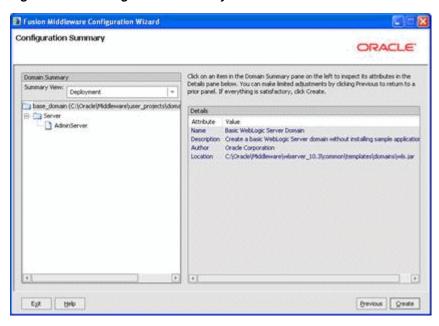
Figure A-15 Configure the Administration Server screen

15. Use defaults.

Eye Help

Click Next.

Figure A-16 Configuration Summary screen



16. Click Create.

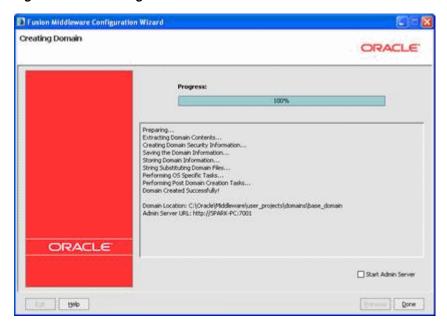


Figure A-17 Creating Domain screen

17. Copy jt400.jar, JDEWorldJDBC.jar, log4j jar, and BaseJar.jar to WebLogic server library.

(WLS_Home\Middleware\user_projects\domains\base_domain\lib

The JDEWorldJDBC.jar and the BaseJar.jar are included in the Web Services .zip file downloaded from the MyOracleSupport website.

For details about the latest version supported for log4j, see Doc ID 2318897.1 in My Oracle Support. (WS: Instructions to Address JD Edwards World Security Vulnerabilities (Doc ID 2318897.1)(Release A9.3 Update)

18. Install the custom security authenticator into WebLogic server environment.

Copy the MJF (e.g. WorldAuthenticator.jar) to <WL_ HOME>/server/lib/mbeantypes.

The WorldAuthenticator.jar file is included in the Web Services .zip file downloaded from the MyOracleSupport website.

Installing W	/ebLoaic	Application	Server
--------------	----------	-------------	--------

Create WebSphere Application Server

This appendix contains the topic:

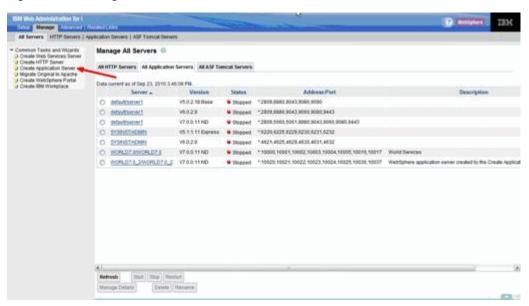
Section B.1, "Creating Application Servers in WebSphere."

B.1 Creating Application Servers in WebSphere

To create Application Servers in WebSphere

1. Launch the IBM Web Administrator for i: http://localhost:2001/HTTPAdmin

Figure B-1 Manage All Servers screen



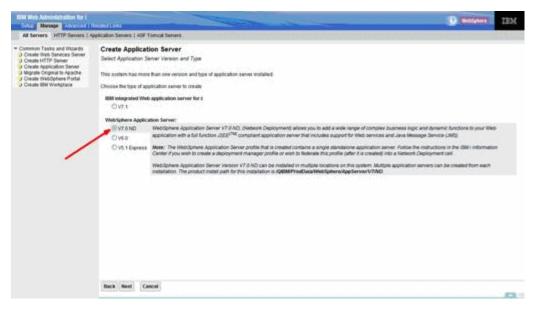
Click Create Application Server.

Figure B-2 Create Application Server screen



3. Click Next.

Figure B-3 Create Application Server screen, Select Application Server and Type page



4. Select V7.0 ND and then click Next.

Figure B-4 Create WebSphere Application Server screen, Specify Application Server Name page



Enter Application Server Name and Description and then click Next.

Figure B-5 Do Not Associate an External HTTP server ... Radio button



Select Do not associate an external HTTP server with this application server and then click Next.

Figure B-6 Create WebSphere Application Server screen



7. Click Next.

Figure B-7 Create WebSphere Application Server screen, Sample Applications page

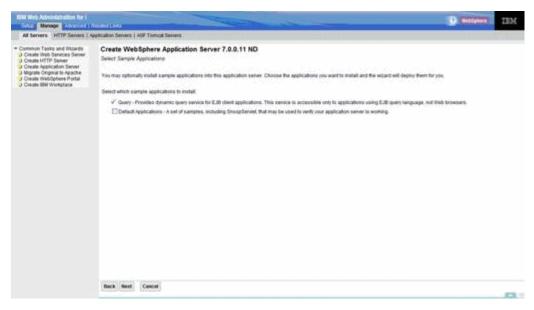
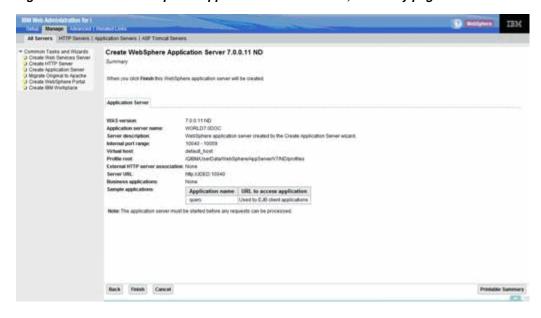


Figure B-8 Create WebSphere Application Server screen, Configure Identity Tokens page



Click Next.

Figure B-9 Create WebSphere Application Server screen, Summary page



10. Click Finish.

	Creating	Application	Servers in	WebSphere
--	----------	-------------	------------	-----------

Code and Deploy your own Web Services

This appendix contains the topic:

Section C.1, "Coding and Deploying Your Own Web Services."

C.1 Coding and Deploying Your Own Web Services

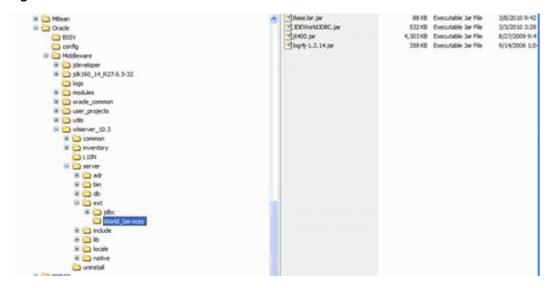
To code and deploy your own Web Services

- Use the WebServiceBase_v4 and WebServiceBaseImpl_v4 classes to create custom web services
- Both classes exist in the BaseJar.jar file
- Extending one of the base classes (WebServiceBase_v4 and WebServiceBaseImpl_ v4) gives you an RPGInvoke and Connection
- Use the RPGInvoke to call an RPG program on the JDEdwards World system
- Use the Connection to access the JDEdwards World database
- Extend WebServiceBase_v4 when creating services that only require executing a JD Edwards World program
- Extend WebServiceBaseImpl_v4 when creating a web service that requires database access
- Refer to the source zip file for examples on how to create web services using the BaseJar.jar file

Deployment Profiles

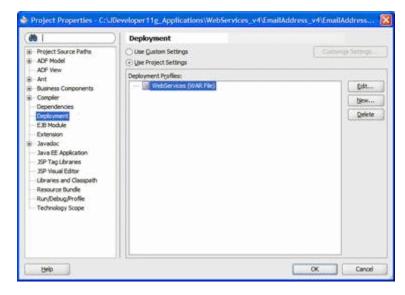
The jar files required for the Web Services were configured in the previous procedure by adding the jar files to the World_Services folder and setting the server classpath to include these jars.

Figure C-1 Location of World Services folder



In Jdeveloper, the individual projects only need to deploy those files that are required by the web service.

Figure C-2 Project Properties screen



Highlight WebServices(WAR File) and then click Edit.

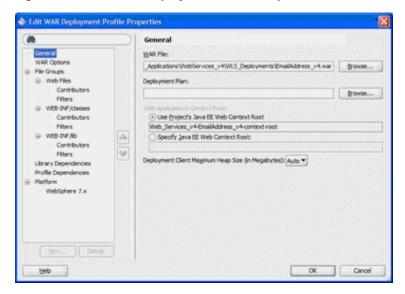
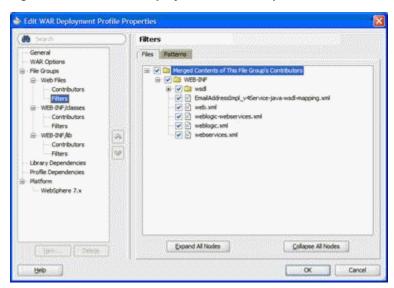


Figure C-3 Edit WAR Deployment Profile Properties screen, General page

Enter a path where you want your WAR file created.

Figure C-4 Edit WAR Deployment Profile Properties screen, Filtering tab



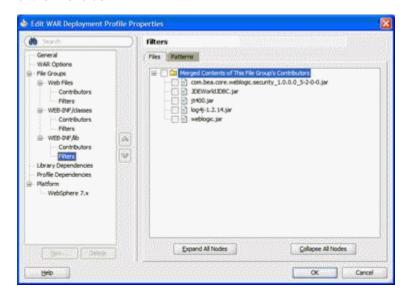
Under Web Files > Filters, select all files.

Edit WAR Deployment Profile Properties WAR Options This file group includes the project output directory as a contributor. You may need to compile the project to see all files coming from the output directory. ⇒ File Groups ⊖ Web Files Contributors Filters Geta 😂 📑 😑 ₩ 🗒 😩 00000000 R- WFR-INF (Hasses Contributors. - BrailAddress_v4.cd_javac
WebServices8ASE_v4.cd_javac O WED-DY AN - Contributors ⊞ 🗑 🔠 orade Filters 8 F a world Library Dependencies 🖹 📝 🍱 addressbook Profile Dependencies ├── ☐ EmalAddressImpl_v4.dass ├── ☐ EmalAddressImpl_v4PortType.dass Platform. WebSphere 7.x ② □ EnaRequest_v4.dass ② □ EnaResponse_v4.dass © RPGInvoke.dass Expand All Nodes Collapse All Nodes Help

Figure C-5 Edit WAR Deployment Profile Properties screen, Filter location in file structure

Under WEB-INF/classes, only select the files specific to this service. The files under base are included in the BaseJar.jar, so they do not need to be included here.

Figure C-6 Edit WAR Deployment Profile Properties screen Showing Merged Contents of the File folder



Under WEB-INF/lib no classes should be selected, these jars are either part of the WLS install or were included in the server classpath in the installation instructions above.

Add Web Services to Oracle Enterprise Repository

This appendix contains these topics:

- Section D.1, "Web Services Deployment and Java Documents Location Update,"
- Section D.2, "CAR XML Documents Builder."

Follow the procedures in this appendix if you have purchased Oracle Enterprise Repository (OER) and you want to register your JD Edwards World Web Services in your OER instance. A batch import facility, Converged Application Repository (CAR), is provided in the JD Edwards World Service Enablement Software Update for importing the services into OER. See the JD Edwards World Service Enablement Guidefor more information.

After you run the Software Update self-extracting archive file, you can access the WorldCARV1.zip file from the extract to location. The .zip file contains the CARv1 objects.

Unzip WorldCARV1.zip into the root directory, which creates the folder WorldCARV1. This folder contains the following objects:

- 58 xml documents contained in WorldCARv1xml
- Source for the Java programs
- Commands and Java classes

To prepare the supplied xmls for the OER Harvester, refer to Web Services Deployment and Java Documents Location Update in this guide.

To register your own Web Services into OER:

- CAR XML documents builder
- Web Services deployment and java Documents location update

JD Edwards World Converged Application Repository (CAR) - Service Enablement XML documents.

D.1 Web Services Deployment and Java Documents Location Update

JD Edwards World CAR XML documents must be updated with the Web Services deployment and Java Documents location before being harvested by OER (Oracle Enterprise Repository).

CAR XML documents are updated through the execution (from MS Windows Command Prompt) of WorldCARLoc.bat command.

The system updates the following CAR XML document elements:

Service location:

<LocationURL>#wsdeployment#/WorldServices-ServiceName v4-context-root/ServiceNameImplPort?WSDL</LocationURL>

Java Document location:

<Value>#javadocdeployment#\com\oracle\world\application\ServiceNameImpl.ht ml</Value>

Each token (Service: #wsdeploymet# and Java Document: #javadocdeployment#) are replaced by the corresponding root location value.

Service root location

Replaced by the http address and port where the Services were deployed. For example:

http://localhost:7101

XML <LocationURL> element after update:

<LocationURL>http://localhost:7101/WorldServices-ServiceName_ v4-context-root/ServiceNameImplPort?WSDL</LocationURL>

Java Documents root location

Replaced by the directory path where the Java Documents were created. For example:

C:\JDeveloper11g_Applications\JavaDocTest\Javadoc

XML <Value> element after update:

<Value>C:\JDeveloper11g_

Applications\JavaDocTest\Javadoc\com\oracle\world\utilities\BatchCtrlImpl.html </Value>

WorldCARLoc.bat command execution

Note: Java Runtime Environment (JRE) 1.6 or higher is required. You can download the latest JRE version from:

http://www.oracle.com/technetwork/java/javase/downloads/inde x.html

 Create a backup copy of the CAR XML documents in a new directory/folder outside of the current CAR XML directory.

Use the backup in case the XML documents are updated with the wrong values.

- 2. Open MS Windows Command Prompt.
- **3.** Access the WorldCARV1 directory:

CD\WorldCARV1 <Enter>

4. Execute WorldCARLoc.bat command:

WorldCARLoc "Drive:\CAR_XML_Documents_Directory" "Services_ Deployment_Address:Port" "Drive:\Java_Documents_Root_Path"

Where:

Drive:\CAR_XML_Documents_Directory: drive and directory where the CAR XML documents have been deployed.

Services_Deployment_Address:Port: http address where the Services have been deployed.

Drive:\Java_Documents_Root_Path: drive and directory path where the Java Documents have been created.

Note: Enter each one of the three parameters required separated by a blank character. For example: WorldCARLoc "C:\CARv1xml" "http://localhost:7001" "C:\JDeveloper11g_ Applications\JavaDocTest\Javadoc'

Verify that all World CAR XML documents were properly updated. Execute the OER Harvester following OER Service Registry instructions.

D.2 CAR XML Documents Builder

You use the CAR XML documents builder to generate CAR XML documents to register customers Web Services (as part of JD Edwards World Service Enablement) in OER.

The Web Services information, contained in the CAR XML documents required by OER, is collected from custom Java Doc tags that need to be added to each Web Service that will be registered in OER.

Java Doc custom tags description

Note: The CAR XML documents builder collects information from Implementations and Managers classes. ("Impl" and "Manager" texts must be part of the source class name. For example, AddressBookImpl_v4.java

Update the Impl/Manager class with the following tags:

Web Service tags - must be entered before the class declaration statement.

@wsname: Web Service name.

@wsdesc: Web Service description.

@version: Web Service version.

@applname: Application name.

@prodcode: JD Edwards product code.

@applrelease: JD Edwards application release

@prodcodedesc: JD Edwards product code description

@wsdlurl: #wsdeployment# + deployment location

Note: #wsdeplyment# token is not required if the deployment http address is entered as part of the URL.

Example:

/**

- * Description of AddressBook Impl Class
- * @wsname Address Book
- *@wsdesc Web service for maintaining Address Book information.

- * @version v4
- * @applname JD Edwards World
- * @applrelease A9.2
- * @prodcode 01
- * @prodcodedesc Address Book
- *@wsdlurl#wsdeployment#/Web_Services_v4-AddressBook_ v4-context-root/AddressBookImpl_v4Port?WSDL

*/

Exposed/public methods tags must be entered before each exposed/public method declaration:

@pubmethodname: public method name

@pubmethoddesc: public method description

Example:

- * This method retrieves Address Book records by querying the Address Book
- * Master (F0101) and related files.
- * @param getRequest Structure containing input values.
- * @return AddressBookResponse_v4 Structure containing output values.
- * @pubmethodname getAddressBook
- * @pubmethoddesc This method retrieves Address Book records by
- * querying the Address Book Master(F0101) and related files.

*/

General Rules

- Enter the text associated to each tag leaving two blank characters, between the tag and the text.
- Java Doc custom tags can be used together with Java standard Java Doc tags as for example @param.
- Description tags (@wsdesc and @pubmethoddesc) require "
" (break a line) tag at the end of the entire description. If more the one line of text is needed, the text can be wrapped in the next line(s).
- Execute CAR XML Builder:

After all custom tags have been added to the Web Services execute WorldCARXMLB.bat command to build CAR XML documents. This process generates one XML document for each Web Service (Impl/Manager class) to be registered in

- Open MS Windows Command Prompt.
- Access the WorldCARV1 directory:

CD\WorldCARV1 <Enter>

Execute WorldCARXMLB.bat command:

WorldCARXMLB "Drive:\Web_Services_Source_Directory" "Drive:\CAR_XML_ Documents_Directory"

Where:

Drive:\Web_Service_Source_Directory: drive and directory location of Web Services sources. Only the parent directory needs to be specified. For example specifying "C:\Services" will traverse all subdirectories to retrieve source files.

Drive:\CAR_XML_Documents_Directory: drive and directory where the XML documents will be created. If the directory doesn't exist it will be created.

Note: Enter both parameters required separated by a blank character.

After, you verify that all XML documents were properly created, execute the command described in the Web Services deployment and Java Documents location update section of this document.

Uninstall Service Enablement

This appendix contains the topic:

Section E.1, "Uninstalling Service Enablement."

E.1 Uninstalling Service Enablement

E.1.1 Oracle Universal Installer (OUI)

If you need to uninstall JD Edwards World Service Enablement, use the OUI installer.

Figure E-1 Oracle Universal Installer Welcome screen



1. Start the OUI installer.

Run Disk1\oui\bin\setup.exe and click Deinstall Products on the Welcome screen.

Figure E-2 Inventory window



Select the checkbox of the Service Enablement folder name you created and then click Remove.

Figure E-3 Confirmation screen



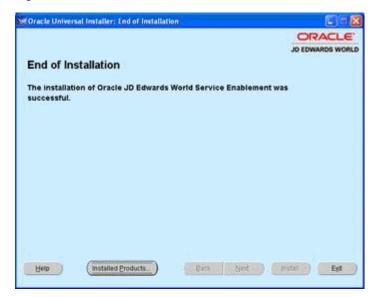
3. On the Confirmation screen, click Yes.

Figure E-4 Inventory screen



On the Inventory screen, click Close.

Figure E-5 End of Installation screen



On the End of Installation screen, click Exit.

Figure E-6 Exit window



6. On the Exit screen, click Yes.

Uninstalling	Service	Enablement
--------------	---------	------------