JD Edwards EnterpriseOne Tools

Application Development Framework (ADF) Configuration Guide

9.2

9.2

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Preface

Welcome to the JD Edwards EnterpriseOne documentation.

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 Information

For additional information about JD Edwards EnterpriseOne applications, features, content, and training, visit the JD Edwards EnterpriseOne pages on the JD Edwards Resource Library located at:

http://learnjde.com

Conventions

The following text conventions are used in this document:

Convention	Meaning
Bold	Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary.
Italics	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
Monospace	Monospace type indicates commands within a paragraph, URLs, code examples, text that appears on a screen, or text that you enter.
> Oracle by Example	Indicates a link to an Oracle by Example (OBE). OBEs provide hands-on, step- by-step instructions, including screen captures that guide you through a process using your own environment. Access to OBEs requires a valid Oracle account.





1 Introduction

Overview

This guide describes the configuration of the Application Interface Services (AIS) Server which provides the communication interface between JD Edwards EnterpriseOne ADF enterprise applications and JD Edwards EnterpriseOne. It also contains information about additional setup tasks that must be performed in EnterpriseOne to determine the data that ADF users can access and work with in ADF enterprise applications.

Configuration Checklist

As you read through the contents of this guide and the Oracle® Fusion Middleware: Developing Applications for Oracle Weblogic Server 12c Release 1 (12.1.1) guide, use the following list of tasks as a checklist for setting up ADF enterprise applications:

- Setting Up and Configuring AIS Server
- Setting Up and Configuring ADF
- Building and Deploying EnterpriseOne ADF Applications
- Building and Deploying EnterpriseOne ADF Container
- Updating Safari Settings to Display EnterpriseOne ADF Applications on Mobile Devices (Release 9.2.0.2)

Accessing Minimum Technical Requirements (Certifications)

The following list contains references to the minimum technical requirements for the AIS Server for ADF:

 Customers must conform to the supported platforms for the AIS Server, which can be found in the Certifications tab on My Oracle Support: <u>https://support.oracle.com</u>.

For more information about JD Edwards EnterpriseOne Minimum Technical Requirements, see the following document on My Oracle Support:

JD Edwards EnterpriseOne Minimum Technical Requirements Reference:

https://support.oracle.com/epmos/faces/CertifyHome?_adf.ctrlstate=15rchn2zj3_14&_afrLoop=384218244947223

See certifications for JD Edwards EnterpriseOne ADF Foundation.





2 Configuring the Application Interface Services (AIS) Server

Overview of the AIS Server Configuration for EnterpriseOne ADF Enterprise Applications

The Application Interface Services (AIS) Server provides a JSON over REST interface to EnterpriseOne applications and forms through the EnterpriseOne HTML Server. The AIS Server exposes this interface to enable communication between ADF applications and EnterpriseOne.

The AIS Server includes support for JSON representation of form service requests so ADF applications can easily format requests. The AIS Server submits these ADF application requests to the EnterpriseOne HTML server.

The AIS Server maintains sessions for ADF applications. You can configure the session timeouts for the AIS Server through Server Manager following this guideline:

EnterpriseOne HTML server session timeout < EnterpriseOne ADF Container session timeout < AIS server session timeout

The following illustration shows how the AIS Server functions as the interface between ADF applications and the EnterpriseOne HTML Server.





Deploying and Managing the AIS Server through Server Manager

Deploy the AIS Server as a managed instance through Server Manager. You can deploy the AIS Server on Oracle Weblogic Server.

When deploying the AIS Server, remember the URL because it will be used during configuration/deployment of the ADF Container. You will need to populate this into the build.properties file. See *Table 4*: .

For instructions on how to deploy the AIS Server as a managed instance, see "Create an Application Interface Services (AIS) Server as a New Managed Instance" in the JD Edwards EnterpriseOne Tools Server Manager Guide

Managing the AIS Server through Server Manager

Server Manager provides settings and features that enable you to configure and manage the AIS Server. These include:

Configuration group settings to determine whether the Environment and Role fields and the Single Sign On
option are displayed or hidden on the ADF application login screen. The configuration group settings also
include settings for controlling session timeouts and other configuration options.

See "Configuration Groups" in the JD Edwards EnterpriseOne Tools Server Manager Guide for more information about configuration groups for all EnterpriseOne server types.

• Starting with Tools Release 9.1 Update 5, runtime metrics to show various user and server-related information, which enable you to view a list of users connected to the AIS Server and monitor user activity.

See "Application Interface Services Server Runtime Metrics" in the JD Edwards EnterpriseOne Tools Server Manager Guide for more information.

• Starting with Tools Release 9.1 Update 5, configuration group settings for the AIS Server. These settings include display options, AIS Server and HTML Server communication options, security options, and logging options.

See "EnterpriseOne Application Interface Services" in the JD Edwards EnterpriseOne Tools Server Manager Guide for more information.

Additional Required Server Configurations

After deploying the AIS Server through Server Manager, perform the following tasks in this section to complete the configuration between the AIS Server and EnterpriseOne HTML Server:

- Configuring the Allowed Hosts Setting for the EnterpriseOne HTML Server
- Configuring SSL for the AIS Server

Configuring the Allowed Hosts Setting for the EnterpriseOne HTML Server

In Server Manager, configure the Allowed Hosts setting for the EnterpriseOne HTML Server to specify the AIS Server host from which the EnterpriseOne HTML Server will receive requests.

- 1. In Server Manager, access the EnterpriseOne HTML Server managed instance.
- 2. Expand the Form Service area, and in the Allowed Hosts field, enter the IP Address of the AIS Server.
- **3.** Restart the server for the changes to take effect.

Note: If the ADF enterprise application fails to connect to the server, verify that the IP Address of the AIS Server has been entered correctly in the Allowed Hosts field. If the IP Address is correct and the connection still fails, then enter an * (asterisk) in the Allowed Hosts setting, which enables the EnterpriseOne HTML Server to accept requests from any host.



Configuring the Keep JAS Session Open Setting for the AIS Server

In Server Manager, ensure that the Keep JAS Session Open setting for the AIS Server is set to True/Checked.

Configuring SSL for the AIS Server

The availability of the AIS Server port number can enable ADF client access to the AIS Server without the use of a VPN. To protect information sent between the ADF client and the AIS Server, you should use SSL when configuring the AIS Server. If you enable the AIS Server for SSL (HTTPS), you must use a valid certificate. The encryption algorithm for the certificate must be supported in Java 1.6.

Note: If you are using the same AIS server for EnterpriseOne ADF and EnterpriseOne Mobile support, you must use one of the following three types of encryption algorithm for the certificate:

- Signature.MD2withRSA
- Signature.MD5withRSA
- Signature.SHA1withRSA



3 Setting Up and Configuring Application Development Framework (ADF)

Downloading ADF Runtime

Access the download using the following link:

http://www.oracle.com/technetwork/developer-tools/adf/downloads/index.html

From the drop-down menu, select the release that corresponds to the MTRs located in this section, and then click the Download File button.

The appropriate Oracle ADF Runtime Distribution will download.

Installing ADF Runtime Libraries on Weblogic (WLS)

Now, to Weblogic, install the ADF Runtime Libraries you downloaded in *Downloading ADF Runtime*.

Installing ADF Runtime

To install ADF Runtime:

1. Change directory to java\bin folder.



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2. Execute java-jar fmw_12.1.3.0.0_infrastructure.jar file.

elcome	cicome		ORACLE	
	_1		FUSION MIDDLEWARE	×
Welcome				
Create Repository	Welcome to Repository Creation	on Utility 12.1.3.0.0 for Oracle F	usion Middleware.	
Database Connection Details	The Department Creation Utility			ived for
Select Components	Oracle Fusion Middleware produ	enables you to create and drop Jcts.	database schemas that are requ	Jirea ror
Schema Passwords				
Map Tablespaces				
Summary				
Completion Summary				
	Skip this Page Next Time			
Help			< Back	Einish Cance
Help			< Back Next >	Finish Cano

Application Development Framework (ADF) Configuration Guide

3. Click Next on the Welcome screen.

Oracle Fusion Middleware 12c I	nfrastructure Installation - Step 2 of 7	
installation Location		
Welcome	<u>O</u> racle Home:	
Installation Location	Z:\Oracle\Middleware	▼ Browse
Installation Type	Feature Sets Installed At Selected Oracle Home: View	
Prerequisite Checks		
Installation Summary		
Installation Progress		
Installation Complete		
	Oracle Home may only contain alphanumeric, underscore (_), hyphen (-) or dot(.) characters a alphanumeric character.	nd it must begin with an
Help	< Back Next >	Finish Cancel



4. Enter the existing Oracle Home, for example, Oracle\Middleware)

Oracle Fusion Middleware 12c Installation Type	nfrastructure Installation - Step 3 of 7	
	Eusion Middleware Infrastructure Fusion Middleware Infrastructure With Examples	
Installation Summary Installation Progress Installation Complete	 □ Oracle Fusion Middleware 12c Infrastructure 12.1.3.0.0 □ Core Server Core Application Server 12.1.3.0.0 Coherence Product Files 12.1.3.0.0 Web 2.0 HTTP Pub-Sub Server 12.1.3.0.0 WebLogic SCA 12.1.3.0.0 WebLogic Client Jars 12.1.3.0.0 Oracle WebLogic Communication Services 12.1.3.0.0 □ Administrative Tools Administration Console Additional Language Help Files 12.1.3.0.0 □ Enterprise manager 12.1.3.0.0 □ Database Support □ Thirdparty JDBC Drivers 12.1.3.0.0 □ Open Source Components □ Third Party Jackson 12.1.3.0.0 1 Administrative Tools 	
Help	< Back Next > Ein	ish Cancel



5. Select the Fusion Middleware Infrastructure option and click Next.

🗢 Oracle Fusio	n Middleware 12c Infi	rastructi	ire Installation - Step 4 d	of 7		
Prerequis	ite Checks					
Welcome						
Installation L	ocation			100%		
Installation T	ype		Checking operating system	cartification		
Prerequisi	te Checks		Checking Java version use	ed to launch the installer		
Installation S	ummary	-	Checking Java version use			
Installation P	rogress					
i Installation C	complete					
		Stop	Rerun Skin	View Suc	cessful Tasks	View Loo
		Diob				VICK LOG
		_ ∄ […] ≪∕Che	cking operating system certi	fication		
	6	🗄 🗝 🔗 Che	cking Java version used to l	aunch the installer		
Help					< <u>Back</u> <u>Next</u> > <u>Fir</u>	hish Cancel



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6. Click Next after the Prerequisite Checks.

0	Oracle Fusion Middleware 12c Ir	nfrastructure Installation - Step 5 of 7 🛛 📃 🗵
I	stallation Summary	
Ŷ	Welcome	Install Oracle Fusion Middleware 12c Infrastructure
ų	Installation Location	Installation Location
	Installation Type	Oracle Home Location: Z:\Oracle\Middleware
J	Prerequisite Checks	Log File Location: C:\Users\rchan\AppData\Local\Temp\OraInstall2015-03-26_11-44-50AM\install2015-0 3-26_11-44-50AM.log
	Installation Summary	Disk Space
Ŧ	hadallatian Daaraa	Required: 1370 MB
Ĭ	Installation Progress	Available: 122817 MB
Ó	Installation Complete	Feature Sets to Install
		WLS for FMW 12:1.3.0.0
		Toplink Developer 12.1.3.0.0
		Enterprise manager 12.1.3.0.0
		Save Response File Select Install to accept the above options and start the installation. To change the above options before starting the installation, select the option to change in the left pane or use the Back
ſ	Help	< Back Next > Install Cancel



7. Review the installation summary, and then click Install.

Oracle Fusion Middleware 12c Inf	frastruct	ture Installation - Step 6 of 7 📃 🛛 🔀
Installation Progress		
Y Welcome		
Unstallation Location		100%
Installation Type	v	Prepare
Prerequisite Checks	 V 	Сору
Installation Summary	v	Generating Libraries
Installation Progress	v	Performing String Substitutions
Installation Complete	v	Linking
	v	Setup
	v	Saving the inventory
	v	Post install scripts
	View	v Messages View Log View Log
	7	Hardware and Software Engineered to Work Together
Help		< Back Next > Finish Cancel



8. Click Next when installation is completed.

Oracle Fusion Middleware 12c In	frastructure Installation - Step 7 of 7 📃 🗖 🗙
Installation Complete	
Ý Welcome	Install Oracle Fusion Middleware 12c Infrastructure
Installation Location	☐ Installation Location
Installation Type	Oracle Home Location: Z:\Oracle\Middleware
Prerequisite Checks	Log File Location: C:\Users\rchan\AppData\Local\Temp\OraInstall2015-03-26_12-41-12PM\install2015-0 3-26 12-41-12PM.log
U Installation Summary	Feature Sets Installed Successfully
	Enterprise manager 12.1.3.0.0
	Oracle WebLogic Communication Services 12.1.3.0.0
Installation Complete	Toplink Developer 12.1.3.0.0
	Next Steps:
	Oracle Fusion Middleware 12c Infrastructure installation completed successfully
Help	< Back Next > Finish Cancel

9. Review the Installation Status and click Finish.

Configuring ADF Runtime

You configure the ADF runtime by completing the following tasks:

- Creating the Database Schemas using RCU
- Extending the Weblogic domain for ADF
- Creating a managed server
- Applying the JRF Template to the new managed Server



Creating the Database Schemas using Repository Creation Utility (RCU)

To create the database schemas using RCU:

1. Execute the rcu.bat(sh) from the Oracle_Home\oracle_common\bin folder.

🕌 Repository Creation Utility - We	lcome			
Welcome				<
 Welcome Create Repository Database Connection Details Select Components Schema Passwords Map Tablespaces Summary Completion Summary 	Welcome to Repository Creation Util The Repository Creation Utility enabl Oracle Fusion Middleware products.	lity 12.1.3.0.0 for Oracle Fusio les you to create and drop dat.	n Middleware. abase schemas that are requ	ired for
			< Back Next >	inish Cancel
Пеір			< Dack Next >	Cancel

2. Click Next on the Welcome Screen.

🕌 Create Repository - Step 1 of 7			
Repository Creation Ut	ility		7
Welcome Patabase Connection Details Select Components Schema Passwords Map Tablespaces Summary Completion Summary	Greate Repository Create and load component schemas into a database. System Load and Product Load I have DBA privileges. Prepare Scripts for System Load Create scripts for DBA to run later. Perform Product Load System Load scripts have been run by DBA. Drop Repository Remove component schemas from a database. Messages:	·	
Help Help		< <u>Back</u> <u>N</u> ext > <u>Fin</u> <u> Einer Einer</u>	nish Cancel



3. Select the Create Repository, and System Load and Product Load options.

epository Creation Utili	ty	
Welcome <u>Create Repository</u> Database Connection Details	<u>D</u> atabase Type: Host Na <u>m</u> e:	Oracle Database
Select Components Schema Passwords Map Tablespaces Summary	P <u>o</u> rt: <u>S</u> ervice Name:	For RAC database, specify VIP name or one or the Node name as Host name. For SCAN enabled RAC database, specify SCAN host as Host name.
Completion Summary	<u>U</u> sername:	User with DBA or SYSDBA privileges. Example:sys
	Password: <u>R</u> ole:	SYSDBA ▼ One or more components may require SYSDBA role for the operation to succeed.
×	essages:	

4. Enter the database connection information.

epository Creation Utility - Checking Prerequisites Checking Global Prerequisites	Þ
Initializing repository configuration metadata	00:00.515(ms)
Obtain properties of the specified database	00:00.109(ms)
Check requirement for specified database	00:01.109(sec)
Operation completed. Click OK to continue to next page.	
	QK



5. Click OK after the Prerequisites Checks.

🕌 Select Components - Step 3 of 7				_ 🗆 ×
Select Components				7)
Welcome Create Repository Database Connection Details Select Components Schema Passwords Map Tablespaces Summary Completion Summary	Specify a unique prefix for all sche schemas later. Select existing prefix: Component Component Component Concle AS Repositor Audit Services Audit Services Audit Services Conce Platforn User Messagi WebLogic Ser Common Infra SOA Suite Component	emas created in this session, so CUSTPTL ADF Alpha numeric only. Canr y Components termas vices s Append s Viewer m Security Services ing Service rvices astructure Services	FUSION MIDDLEWARE a you can easily locate, reference, and a ADF_MDS a DF_MDS a ADF_IAU a ADF_IAU a ADF_OPSS a ADF_UMS a ADF_STB	manage the
	Messages:	ite		
Help			< <u>B</u> ack <u>N</u> ext > <u>F</u> inish	Cancel

6. Enter a new schema prefix and select the AS Common Schemas.

Ļ	Metadata Services	00:00.109(ms)
	Audit Services	00:00.109(ms)
•	Audit Services Append	00:00.110(ms)
	Audit Services Viewer	00:00.109(ms)
2	Oracle Platform Security Services	00:00.109(ms)
2	User Messaging Service	00:00.125(ms)
P	WebLogic Services	00:00.110(ms)
2	Common Infrastructure Services	00:00.140(ms)



Juiue

7. The installer will perform a second check.

🛃 Schema Passwords - Step 4 of 7	1			
Repository Creation Ut	ility			<
Q Welcome	Define passwords for m	ain and auxiliary schema users.		
Create Repository	• Use same password	s for all schemas		
Database Connection Details	Password:	••••••]	
Select Components		Alpha numeric only.Cannot start with a r No special characters except: \$, # ,	number.	
Schema Passwords	<u>C</u> onfirm Password:	•••••]	
Map Tablespaces	🔵 Use <u>m</u> ain schema pa	sswords for auxiliary schemas		
Ŷ Summary	Specify different pa	sswords for all schemas		
 Completion Summary 				
	<u>M</u> essages:			
Help			< Back Next > Fi	nish Cancel



8. Enter the password for all schemas.

🕌 Map Tablespaces - Step 5 of 7				
Repository Creation Uti	lity			
♀ Welcome ♀ Create Repository ♀ Database Connection Details	 Default and temporary tables To create new tablespaces or 	paces for the selected comp modify existing tablespace:	ponents appear in the table be s,use the 'Manage Tablespace:	low. s Button' Manage <u>T</u> ablespaces
🌳 Select Components	Component	Schema Owner	Default Tablespace	Temp Tablespace
Schema Passwords	Metadata Services	ADF_MDS	*ADF_MDS	*ADF_IAS_TEMP
Mar Tablasson	Audit Services	ADF_IAU	*ADF_IAS_IAU	*ADF_IAS_TEMP
	Audit Services Append	ADF_IAU_APPEND	*ADF_IAS_IAU	*ADF_IAS_TEMP
🦕 <u>Summary</u>	Audit Services Viewer	ADF_IAU_VIEWER	*ADF_IAS_IAU	*ADF_IAS_TEMP
Completion Summary	Oracle Platform Securit	ADF_OPSS	*ADF_IAS_OPSS	*ADF_IAS_TEMP
	User Messaging Service	ADF_UMS	*ADF_IAS_UMS	*ADF_IAS_TEMP
	WebLogic Services	ADF_WLS	*ADF_WLS	*ADF_IAS_TEMP
	* Default tablespaces (specifi Messages:	ed in the configuration files;) are to be created upon confir	mation.
Help			< <u>B</u> ack <u>N</u> ext >	EinishCancel

9. Review the tablespaces information.





10. Click OK to confirm tablespaces creation.

🕌 Summary - Step 6 of 7				_	□ >
Repository Creation Ut	ility				
<u>Welcome</u> Crasha Describerty	Database details:				
<u>Database Connection Details</u> <u>Select Components</u>	Port: 1521 Service Name: ORCL.US.ORACLE.(Connected As: sys				
 <u>Schema Passwords</u> <u>Map Tablespaces</u> 	Prefix for (prefixable) Schema Owner	s:ADF			
Summary	Component	Schema Owner	Tablespace Type	Tablespace Name	
Completion Summary	Metadata Services	ADF_MDS	Default Temp Additional	ADF_MDS ADF_IAS_TEMP None	ſ
	Audit Services	ADF_IAU	Default Temp Additional	ADF_IAS_IAU ADF_IAS_TEMP None	
	Audit Services Append	ADF_IAU_APPEND	Default Temp Additional	ADF_IAS_IAU ADF_IAS_TEMP	
	Audit Services Viewer	ADF_IAU_VIEWER	Default Temp	ADF_IAS_IAU ADF_IAS_TEMP	
	Oracle Platform Security Services	ADF_OPSS	Default Temp Additional	ADF_IAS_OPSS ADF_IAS_TEMP	
	User Messaging Service	ADF_UMS	Default Temp	ADF_IAS_UMS ADF_IAS_TEMP	
	WebLogic Services	ADF_WLS	Default	ADF_WLS	•
Help	11		< <u>B</u> ack <u>N</u> ext >	<u>C</u> reate Can	cel



11. Click Create.

🛃 Completion Summary - Step 7 o	f7			
Repository Creation Uti	lity			
 Welcome Create Repository Database Connection Details Select Components Schema Passwords Map Tablespaces Summary Completion Summary 	Database details: Host Name: denptw Port: 1521 Service Name: ORCL.I Connected As: sys Operation: System RCU Logfile: Z:\Oracle\ Component Log Directory: Z:\Oracle\ Execution Time: 2 minute View Log: rcu. Prefix for (prefixable) Schema Owners:	v29.us.oracle.com J5.ORACLE.COM and Data Load cond le\Middleware\oracle Middleware\oracle_c es 37 seconds log ADF	:urrently e_common\rcu\log\logdir.20 common\rcu\log\logdir.2015	15-03-26_12-49\rcu.log 5-03-26_12-49
	Component	Status	Time	Logfile(Click to view)
	Metadata Services	Success	00:13.657(sec)	mds.log
	Audit Services	Success	00:15.189(sec)	iau.log
	Audit Services Append	Success	00:09.172(sec)	iau_append.log
	Audit Services Viewer	Success	00:09.126(sec)	iau_viewer.log
	Oracle Platform Security Services	Success	00:25.236(sec)	opss.log
	User Messaging Service	Success	00:12.689(sec)	ucsums.log
	WebLogic Services	Success	00:11.094(sec)	wls.log
	Common Infrastructure Services	Success	00:09.485(sec)	stb.log
Help			< <u>B</u> ack <u>N</u> ext :	Create Close

12. Click Close when the tablespaces creation is completed.

Extending the Weblogic Server Domain for ADF Runtime

Since your ADF applications will be on the same domain as your ADF libraries, then you need to extend the Weblogic Server Domain for ADF Runtime.

Note: If you have not yet created the WLS domain, you can choose "Create a new domain" instead of "Update an existing domain."

To extend the Weblogic server domain for ADF runtime:

1. Execute the config.cmd(sh) from Oracle_Home\oracle_common\common\bin folder.

Fusion Middleware Configuration	Wizard - Page 1 of 6	_ 🗆 🗙
Configuration Type		
🔎 Update Domain		
Templates		
Advanced Configuration		
Configuration Summary		
Configuration Progress		
C End Of Configuration	What do you want to do?	
	🔿 Create a new domain	
	Jpdate an existing domain	
	Domain Location: Z:\Oracle\Middleware\user_projects\domains\base_domain	▼ Browse
	Update an existing domain.	
Help	< Back Next > Einis	sh Cancel



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2. Click the Update an existing domain option.

The Create a new domain will be similar.

Fusion Middleware Configuration	Wizard - Page 2 of 10	_ 🗆 🗙
Templates		
Lipdate Domain		
媡 Templates	Update Domain Using Product Templates:	
Application Location	Template Categories: All Templates	•
Database Configuration Type	Available Templates	
Component Datasources	Basic WebLogic Server Domain - 12.1.3.0 [wlserver] *	
	Oracle Enterprise Manager - 12.1.3.0 [em]	
Advanced Configuration	Oracle User Messaging Service Basic - 12.1.3.0 [oracle_common]	
	Oracle RAS Session Service - 12.1.3.0 [oracle_common]	
Configuration Summary	Oracle JRF SOAP/JMS Web Services - 12.1.3.0 [oracle_common]	
Configuration Progress	Oracle JRF - 12.1.3.0 [oracle_common]	
ပ် End Of Configuration	WebLogic Coherence Cluster Extension - 12.1.3.0 [wlserver]	
	WebLogic Advanced Web Services for JAX-WS Extension - 12.1.3.0 [oracle_common]	
	WebLogic Advanced web services for SAX-RPC Extension - 12,1.3.0 [oracle_common]	
	O Update Domain Using Custom Template:	
	Templace location: 2: (Oracle (Middleware	
	A	
Help	< <u>Back</u> <u>N</u> ext > Einis	h Cancel



Application Development Framework (ADF) Configuration Guide

3. Select the Oracle Enterprise Manager option.

The other two options will be selected automatically.

Application Location
Templates
Templates
Application Location
Database Configuration Type
<u>Component Datasources</u>
UDBC Test
Advanced Configuration
Configuration Summary Domain name: base_domain
Configuration Progress Domain location: Z:\Oracle\Middleware\user_projects\domains
C End Of Configuration Application location: Z:\Oracle\Middleware\user_projects\applications\base_domain Brow
Help Car



4. Verify the Domain location, and then click Next.

Fusion Middleware Configuration	Wizard - Page 4 of 10 📃 🖂 🗙
Database Configuration Type	
Update Domain Templates Application Location Database Configuration Type Component Datasources JDBC Test Advanced Configuration Configuration Summary Configuration Progress End Of Configuration	Specify AutoConfiguration Options Using: RCU Data Manual Configuration Enter the database connection details using the Repository Creation Utility service table (STB) schema credentials. The Wizard uses this connection to automatically configure the datasources required for components in this domain. Vendor: Oracle Oriver: *Oracle's Driver: *Oracle's Driver (Thin) for Service connections; Versions:, DBMS/Service: <dbms.service.com> Host Name: <host.server.com> Port: 1521 Schema Owner: ADF STB Schema Password: ••••••• Get RCU Configuration Gancel Connection Result Log Connecting to the database serverOK Binding local schema components with retrieved dataOK Successfully Done. Click "Next" button to continue.</host.server.com></dbms.service.com>
	< Back Next > Einish Cancel

5. Enter the Database Configuration.

Be sure to use the *prefix_*STB schema.

6. Click Get RCU Configuration to verify the connection.

Fusion Middleware Configuration \	Wizard - Page 5 of 10					_ 🗆 🗙
JDBC Component Schema						
Update Domain Templates Application Location Database Configuration Type Component Datasources JDBC Test Advanced Configuration	Vendor: DBMS/Service: Schema Owner: Oracle RAC configuration for co	P H So So	river: ost Name: thema Password: s: onvert to RAC multi d	ata source	Port:	ert
Configuration Summary Configuration Progress End Of Configuration	Edits to the data above will aff Component Schema LocalSvcTbl Schema OPSS Audit Schema	ect all checked rou DBMS/Service ORCL.US.ORAC ORCL.US.ORAC	Host Name Host Name denptw29.us.oracl denptw29.us.oracl	Port 1521 1521	Schema Owner ADF_STB ADF_IAU_APPE	Schema Password
	OPSS Audit Viewer Scherr OPSS Schema	ORCL.US.ORAC	denptw29.us.oracl denptw29.us.oracl	1521 1521	ADF_IAU_VIEW ADF_OPSS	•••••
Help			< <u>B</u> ac	k <u>N</u> ex	t > Einish	Cancel

7. Review the Data Source Components and verify that the connection info is correct.

C Component Schema	Test				
odate Domain	🕴 🔽 Status	Component Schema	J	DBC Connection URL	
emplates		LocalSvcTbl Schema	jdbc:oracle:thin:@//denptw29.us	oracle.com:1521/ORCL.US.OF	RACLE.COM
polication Location	 ✓ ✓ 	OPSS Audit Schema	jdbc:oracle:thin:@//denptw29.us	oracle.com:1521/ORCL.US.OF	RACLE.COM
stabace Configuration Tune	 ✓ 	OPSS Audit Viewer	jdbc:oracle:thin:@//denptw29.us	oracle.com:1521/ORCL.US.OF	RACLE.COM
acabase Coninguration Type	 Image: Image: Ima	OPSS Schema	jdbc:oracle:thin:@//denptw29.us	oracle.com:1521/ORCL.US.OF	RACLE.COM
omponent Datasources					
OBC Test					
dvanced Configuration					
onfiguration Summary					
onfiguration Progress					
od Of Configuration	Test Se	lected Connections	Cancel Testing		
ia or configuration					
	Connection	n Result Log	6 -h		
	Driver=orac	scnema≕LocaisvcTbi le.jdbc.OracleDriver	Schema		
	URL=jdbc:o	racle:thin:@//denptw	29.us.oracle.com:1521/ORCL.US.	ORACLE.COM	
	User=ADF :	518			
	Password=*	***			
	Password=* SQL Test=S	******** ELECT 1 FROM DUAL			
	Password=* SQL Test=S	******** ELECT 1 FROM DUAL 213: Test Successfull			
	Password=* SQL Test=S CFGFWK-64 CFGFWK-64	******** ELECT 1 FROM DUAL 213: Test Successful! 213: JDBC connectior	ı test was successful.		
	Password= SQL Test=S CFGFWK-64 CFGFWK-64	******* ELECT 1 FROM DUAL 213: Test Successful! 213: JDBC connection	i test was successful.		
	Password= SQL Test=S CFGFWK-64 CFGFWK-64	******* ELECT 1 FROM DUAL 213: Test Successful! 213: JDBC connection	i test was successful.		
	Password= SQL Test=S CFGFWK-64	******** ELECT 1 FROM DUAL 213: Test Successful! 213: JDBC connection 210: Manual State State	i test was successful. 		
	Password= SQL Test=S CFGFWK-64 CFGFWK-64	******** ELECT 1 FROM DUAL 213: Test Successful! 213: JDBC connection 210: Manual State	i test was successful.		



ulde

8. The test connection should return successfully.

Wizard - Page 7 of 10		
Managed Servers, Clusters and Coherence		
Add or Delete or Modify Settings		
Domain Frontend Host Capture		
Configure Domain Frontend Host		
Deployments and Services		
Target to Servers or Clusters		
L	< <u>Back</u> <u>N</u> ext > <u>Finis</u>	Cancel
	Managed Servers, Clusters and Coherence Add or Delete or Modify Settings Domain Frontend Host Capture Configure Domain Frontend Host Deployments and Services Target to Servers or Clusters	

9. Click Next without selecting any options.

10. Review the Configuration Summary, and then click Update.

Fusion Middleware Configuration	Wizard - Page 9 of 10		
Configuration Progress			
🖓 Update Domain			
Templates	100%		
Application Location	Preparing		
Database Configuration Type	Extracting Domain Extension Contents Saving the Domain Information		
Component Datasources	Starting OPSS Security Configuration Data Processing		
JDBC Test	Updating Domain Information		
Advanced Configuration	String Substituting Domain Files Performing OS Specific Tasks		
Configuration Sum <mark>mary</mark>	Performing Post Domain Creation Tasks		
Configuration Progress	The OPSS Security Configuration Completed		
Help	` 	Back Next > Finis	h Cancel



11. Click Next when the upgrade process is completed.

E Fusion Middleware Configuration Wizar	d - Page 10 of 10	
Configuration Success		
🖓 Update Domain		
A Templates	Oracle Weblogic Server Configuration Succeeded	
Application Location	Existing Domain base_domain Updated Successfully	
Database Configuration Type	Domain Location	
Component Datasources	Z:/Oracle/Middleware/user_projects/domains/base_domain_	
JDBC Test	Admin Server URL	
Advanced Configuration	http://DENWIN003:7001/console	
Configuration Sum <mark>mary</mark>		
Configuration Progress		
Configuration Success		
	< <u>B</u> ack Next > Er	i sh Cancel

12. Click Finish to exit the installer.

Creating a Managed Server

To create a managed server:

- **1.** Launch the Weblogic Admin Console.
- 2. Click Server, and then click Lock and Edit.



3. Click New to create a Managed Server.

Note: If you have Server Manager agent installed and have registered the Weblogic instance to your Server Manager, you can create the J2EE container from Server Manager.

	dministration Console 12c			õ
Change Center	🟦 Home Log Out Preferences 📐 Record Help	Q	Welcome, web	logic Connected to: base_domain
View changes and restarts	Home >base_domain >Summary of Servers >Summary of Machines >M	chine_1 >Summary of Servers >E1Server >Summ	ary of Servers >E1Server >Summary of Dep	loyments >Summary of Servers
Click the Lock & Edit button to modify, add or delete items in this domain. Lock & Edit Release Configuration	Summary of Servers Configuration Control A server is an instance of WebLogic Server that runs in its own Jaw	a Virtual Machine (JVM) and has its own configur	ration.	
Domain Structure base_domain E-Environment G-Environment C-Disters Coherence Clusters Wachines Virtual HostsWirk Managers	This page summarizes each server that has been configured in the C C C Customize this table Servers (Filtered - More Columns Exist) Click the Lock & Editbutton in the Change Center to activate all	current WebLogic Server domain.		
LStartup and Shutdown Classes	New Clone Delete		Show	wing 1 to 2 of 2 Previous Next
ServicesSecurity Realms	🗖 Name 🔅 Type	Cluster Machine	State Health	Listen Port
Interoperability Diagnostics	AdminServer(admin) Configured	Machine_1	RUNNING 🗸 OK	7001
How do I	E1Server Configured	Machine_1	RUNNING 🖋 OK	7070
Create Managed Servers Clone servers Delete Managed Servers	New Clone Delete		Shov	wing 1 to 2 of 2 Previous Next

Applying the JRF Template to the New Managed Server

To apply the JRF template to the new managed server:

- 1. Sign on to Weblogic Enterprise Manager, for example; http://server:port/em
- 2. Select the Managed Server.

3. Click the JRF Template.



4. Review the Confirmation message.

Now this server is ready for deployment.





4 Building and Installing EnterpriseOne ADF Applications

Downloading EnterpriseOne ADF Foundation

To download the EnterpriseOne ADF foundation, complete the following steps:

1. Access the Oracle Update Center.

https://updatecenter.oracle.com

2. Search for the ADF Par file, and download it to your destination server.

Search for Type EnterpriseOne ADF.

3. Download the appropriate version of the E1 ADF Foundation.

Unless otherwise noted, this will be the latest version.

Note: To locate the download on the **JD Edwards Update Center**, use the Type field to search on EnterpriseOne ADF. Locate the latest version of the E1 ADF Foundation for your specific ADF version.

Files Included in the Download

The following files, once extracted, will be downloaded to the directory you choose.

Note: The E1UserSession.jar provides classes required for creating E1 ADF applications. See the *JD Edwards EnterpriseOne Tools Developer Guide for EnterpriseOne Application Framework (ADF)* for more information.

- AntBuildScripts (Ant build/deploy scripts for EnterpriseOne ADF applications and JDEADFContainer.ear.)
 - E1 ADF Container/build.xml
 - E1 ADF Container/build.properties
 - E1 ADF Application/build.xml
 - E1 ADF Application/build.properties
- JDEADFContainer.ear (EnterpriseOne ADF Container web application.)
- E1UserSession.jar (Helper classes required for developing EnterpriseOne ADF applications.)

Downloading EnterpriseOne ADF Applications

To download the EnterpriseOne ADF applications, complete the following steps:

1. Access the Oracle Update Center.

ORACLE

https://updatecenter.oracle.com

2. Use Type EnterpriseOne ADF to see the list of available EnterpriseOne ADF applications.

Search for Type EnterpriseOne ADF.

3. Download the latest version of the EnterpriseOne ADF Applications, unless otherwise noted.

Files Included in the Download

The ADF Library JAR files will be downloaded, once extracted, to the directory you choose.

Installing EnterpriseOne ADF Applications

EnterpriseOne ADF applications are ADF bounded task flows packaged into ADF library jar files. They are not separate web applications and cannot run outside of the EnterpriseOne ADF Container (JDEADFContainer). Therefore, you must deploy EnterpriseOne ADF applications in a library WAR file on the same domain for them to run inside the EnterpriseOne ADF Container web application.

Using EnterpriseOne ADF Build Script to Deploy the EnterpriseOne ADF Artifacts

The build script uses the wldeploy task to deploy artifacts to server instances or clusters on a Weblogic server. The following list contains facts you need to know:

- The scripts must execute on a machine with a Weblogic install to access the wldeploy task definition class. This install can be the integrated Weblogic instance included with a JDeveloper install, or a standalone Weblogic server.
- Before executing the deploy targets from the Ant scripts using the command line, the environment must be setup to use the wideploy task, according to instructions in the Basic Steps for Using wideploy section of the "wideploy Ant Task Reference" chapter in the *Oracle® Fusion Middleware: Developing Applications for Oracle Weblogic Server12c Release 1(12.1.1)* guide.
- These scripts will only deploy to Weblogic servers.

Using EnterpriseOne ADF Application Build Script to Build the EnterpriseOne ADF Applications Library

The following instructions execute the build script from the command line. Alternatively, you can execute the build script from within JDeveloper. See *Executing the Build Script from JDeveloper*.

Type the following environment setup commands at the command line:

```
.(WLS_HOME)/server/bin/setWLSenv.sh
export PATH=$PATH:/anthome/bin
export ANT_PATH=/anthome
export JAVA_PATH=/jdk_home
```



Build Directories and Contents

Prior to executing the build script to generate the library WAR file, the build location needs to include the following files and directory, where the directory contains the ADF library jar files to include in the library WAR file.

Name	Туре
E1 ADF Application/ADFLibraryJARs	File Folder If this folder does not exist, you need to create it.
E1 ADF Application/ build.properties	PROPERTIES File
E1 ADF Application/ build.xml	XML Ant Script File

build.properties file

The properties listed in the following table are located in the build.properties file. These properties should be populated prior to running the script to deploy so that the EnterpriseOne ADF applications library manifest file is updated with the correct settings.

Ant Script Property	Description	Purpose
implementation.version	Identifies the implementation version of the library WAR file	build
specification.version	Identifies the specification version of the library WAR file	build
created.by	Identifies the entity that created the library WAR file	build
weblogic.server.host	The host on which the Administration Server is running.	deploy
weblogic.server.port	The port on which the Administration Sever is listening.	deploy
weblogic.deploy.targets	A comma-separated list of the target servers, clusters, or virtual hosts to which the JDE task flow library is deployed.	deploy
weblogic.debug	Enables wldeploy debugging messages.	deploy
weblogic.verbose	Specifies whether wldeploy displays verbose output messages.	deploy



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Ant Script Property	Description	Purpose
weblogic.remote.deploy	Specifies if the server is located on a different machine. This affects how filenames are transmitted. The default value is true for this property.	deploy
weblogic.upload.war	Specifies if the JDETaskFlowLibrary.war file is copied to the Administration server's upload directory prior to deployment. The default value is true for this property.	deploy

The build.properties file can be modified to point to a different JAR directory, if desired. However, you should not modify the extension-name property. The JDEADFContainer requires a library WAR file that matches the name specified for this property.

Running the Build Script

Once the properties are set in the build.properties file, you can execute the script at the command line using one of the following commands:

\$ant

or

\$ant build

These commands will execute the build target in the Ant script, which packages the bounded task flow library jar files from the ADFLibraryJARs directory into a deployable library WAR file created in the deploy directory. You should receive a build successful message after executing.

The JDETaskFlowLibrary.war file in the deploy directory can then be manually deployed to a Weblogic server instance or cluster or can be automatically deployed, as described in section *Using EnterpriseOne ADF Container Build Script to Install/Deploy the EnterpriseOne ADF Container to a Weblogic Server*.

Using EnterpriseOne ADF Application Build Script to Install/ Deploy the EnterpriseOne ADF Applications Library to a Weblogic Server

This section explains how to install and deploy EnterpriseOne ADF Applications Library to a Weblogic Server.

Build Directories and Contents

Prior to executing the build script to install/deploy the EnterpriseOne ADF Applications to a Weblogic server, the build location needs to include the files as described in *Table 1*: .

build.properties file

The Ant script can also be used to immediately deploy the JDETaskFlowLibrary.war file to a Weblogic Server instance or cluster once the build process has completed.



Before running the deploy task, you must populate the deploy properties listed in Table 2: .

Running the Build Script

Once the properties are set in the build.properties file, you can execute the script at the command line in the directory that contains the build.xml script file using one of the following commands:

\$ant deploy

or

\$ant build-and-deploy

The first command will execute the script's deploy target only and attempt to deploy the JDETaskFlowLibrary.war to the specified Weblogic servers and/or clusters. If the library war file does not exist, an error message is displayed, instructing the user to run the build target first. The second command will first launch the script's build target and then the deploy target, if the JDETaskFlowLibrary.war file was successfully created. The user will be prompted to enter the Weblogic server username and password during deployment. If successful, you will see a build successful message.

(Optional) Configuring EnterpriseOne ADF Applications

This section describes how to configure EnterpriseOne ADF applications.

EnterpriseOne ADF Application Security

Setting up Security for ADF/Proxy Applications

When you create an EnterpriseOne ADF application, you associate it with a proxy application, which is a standard EnterpriseOne application (Form Design Aid (FDA) application. You configure security on the proxy application through the Security Workbench (the same as all FDA applications).

EnterpriseOne ADF Application Versions

You can create different versions of the proxy application associated with an EnterpriseOne ADF application. See the *JD Edwards EnterpriseOne Tools Developer((amp))#x2019;s Guide for EnterpriseOne Application Development Framework* (*ADF*) *Applications Guide* for details about this.

EnterpriseOne ADF Application Processing Options

You can define a different set of processing options for each version of an EnterpriseOne ADF application. See the *JD Edwards EnterpriseOne Tools Developer((amp))#x2019;s Guide for EnterpriseOne Application Development Framework (ADF) Applications Guide* for details about this.





5 Building and Deploying EnterpriseOne ADF Container

Installing EnterpriseOne ADF Container

This section describes how to install EnterpriseOne ADF Container.

Note: You must have completed the steps to build and deploy the JDETaskFlowLibrary.war file to the ADF server as outlined in Chapter 4.

Using EnterpriseOne ADF Container Build Script to Update the e1adf.ini Settings

The build script uses the wideploy task to deploy artifacts to server instances or clusters on a Weblogic server.

See Using EnterpriseOne ADF Build Script to Deploy the EnterpriseOne ADF Artifacts and Using EnterpriseOne ADF Application Build Script to Build the EnterpriseOne ADF Applications Libraryfor more information.

Build Directories and Contents

Prior to executing the Ant script to create or update the e1adf.ini values, the build location needs to include the following files:

Name	Туре
AntBuildScripts/E1 ADF Container/ build.xml	XML Ant Script File
AntBuildScripts/E1 ADF Container/ build.properties	PROPERTIES File
AntBuildScripts/E1 ADF Container/ JDEADFContainer.ear	EAR File

build.properties file

Before the JDEADFContainer.ear file can be deployed, the e1adf.ini file needs to be configured so the web application can communicate with the EnterpriseOne JAS. An Ant script is used to update the following values in the e1adf.ini file:

e1adf.ini Property	Ant Script Property	Description
aisServer	ais.server	The URL of the AIS server used to populate data in the ADF applications. Usually this AIS server is configured



e1adf.ini Property	Ant Script Property	Description
		to point to the same JAS server where Simplified UI is configured. Use the URL you kept track of from section 2.2 for this property.
deviceName	device.name	The device name sent with every request to the AIS Server (AIS requires it).
jasWhitelist	jas.whitelist	Comma-delimited list of JAS URLs that are allowed to imbed this EnterpriseOne ADF Container when Simplified User Interface is configured on the JAS server.
		The whitelist needs a comma-delimited list of server URLs for JAS. The server URL should be of the form <protocol>://<ip address="" domain<br="" fully="" qualified="">Name>:<port>.</port></ip></protocol>
		The IP Address/Fully Qualified Domain Name value depends on how the server has been set up and what URL the client (browser) sees as the server's origin. There is no penalty for an incorrect value being part of the whitelist, as long as the correct value is also present.
injectlframeBustingHeaders	inject.framebusting.headers	When set to true Content Security Policy (CSP) headers are included on every response from the ADF server, false indicates no CSP headers are added.
		The recommended setting is True.
sessionTimeout	session.timeout	The amount of time the E1 ADF Container session stays alive while the user is not interacting with it, expected in milliseconds - recommended to be longer than E1 HTML Server.
		Be sure to define the EnterpriseOne ADF Container session timeout following this guideline:
		EnterpriseOne HTML server session timeout < EnterpriseOne ADF Container session timeout < AIS server session timeout
sessionTimeToLive	sessionTimeToLive	The maximum amount of time a user's E1 ADF Container session is allowed to be retained. Even if the user is continually interacting with the application, the session will time out after this amount of time. The default value is 24 hours. The maximum value is 24 hours.
		Be sure to define the EnterpriseOne ADF Container session time to live following this guideline:
		EnterpriseOne ADF Container token time to live = AIS server session time to live(Release 9.2.0.5)
accessManagerEnabled	access.manager.enabled	Setting to enable/disable OAM use for ADF container access. Value should be true or false. (Release 9.2.0.2)



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e1adf.ini Property	Ant Script Property	Description
accessManagerServer	access.manager.server	The URL of the OHS gateway to access ADF applications in the container when OAM is enabled. Requests to ADF container via any other URLs will be blocked. If OAM is disabled, this value will be disregarded. (Release 9.2.0.2)

You need to update the build.properties file for each of the Ant Script Property entries listed in *#unique_40/unique_40_Connect_42_CIHGEHFJ*.

Running the Build Script

You execute the script at the command line from the directory that contains the build.xml script file using either of the following commands:

\$ant

or

\$ant build

These commands execute the build target in the Ant script, which unpackages the JDEADFContainer.ear file, updates the e1adf.ini file, and repackages the .ear file in a new deploy directory:

AntBuildScripts/E1 ADF Container/deploy

You should receive a build successful message after executing the command.

The JDEADFContainer.ear file in the deploy directory can then be manually deployed to a Weblogic server instance or cluster, or follow the instructions in section Using EnterpriseOne ADF Application Build Script to Install/Deploy the EnterpriseOne ADF Applications Library to a Weblogic Server.

Using EnterpriseOne ADF Container Build Script to Install/Deploy the EnterpriseOne ADF Container to a Weblogic Server

Prior to deploying the EnterpriseOne ADF Container to a Weblogic server, you must have followed the instructions in section *Using EnterpriseOne ADF Container Build Script to Update the e1adf.ini Settings*.

Build Directories and Contents

Prior to executing the Build script to install/deploy the EnterpriseOne ADF Container to a Weblogic server, the build location needs to include the files as described in *Table 3*:

build.properties file

Use the build script to deploy the updated JDEADFContainer.ear file to a Weblogic Server instance or cluster once the build process has completed.

See *Table 2:* for a list of properties in the build.properties file that need to be populated prior to running the script to deploy the JDEADFContainer web application.



Running the Build Script

Once the properties are set in the build.properties file, you can execute the script at the command line in the directory that contains the build.xml script file using one of the following commands:

\$ant deploy

or

\$ant build-and-deploy

The first command will execute the script's deploy target only and attempt to deploy the JDEADFContainer.ear file to the specified Weblogic servers and/or clusters. If the ear file does not exist, an error message displays instructing the user to run the build target first. The second command will first launch the script's build target and then the deploy target, if the JDEADFContainer.ear file was successfully created. The user will be prompted to enter the Weblogic server username and password during deployment.

You should see a build successful message after executing the command. You can also log into the WLS console and view the deployed JDEADFContainer application under Deployments.



6 Configuring the EnterpriseOne Java Application Server (JAS)

Settings

In Server Manager, you need to populate the following settings for your EnterpriseOne HTML client jas.ini file based on your installation of the EnterpriseOne ADF Container.

Security Settings

Server Manager HTML Client Settings Security Category

SimplifiedUXWhitelist

This option is a comma-delimited list of approved Simplified UX Framework web containers.

The whitelist needs a comma-delimited list of server URLs for ADF. The server URL should be of the form <Protocol>:// <IP Address/Fully Qualified Domain Name>:<Port>.

The IP Address/Fully Qualified Domain Name value depends on how the server has been set up and what URL the client (browser) sees as the server's origin. There is no penalty for an incorrect value being part of the whitelist as long as the correct value is also present.

Runtime Settings

Server Manager HTML Client Settings Web Runtime Category

These settings apply to the ADF server where the EnterpriseOne ADF Container has been installed.

- SimplifiedUXProtocol
 - Designate the Simplified UX Framework's host server protocol (http or https).
- SimplifiedUXHost

Designate the Simplified UX Framework's host server name.

SimplifiedUXPort

Designate the Simplified UX Framework's host server's port name (an integer).

SimplifiedUXContextRoot

Designate the context root of Simplified UX Framework.

Use the default setting in server manager because it matches the setting provided during the EnterpriseOne ADF Container build and deploy.



SimplifiedUXHandShake

Designate the handshake name of Simplified UX Framework.

Use the default setting in server manager because it matches the setting provided during the EnterpriseOne ADF Container build and deploy.

SimplifiedUXWebApp

Designate the web app name of Simplified UX Framework.

Use the default setting in server manager in order to match the setting updated during the EnterpriseOne ADF Container build and deploy.

Timeout Settings

[CACHE]

UserSession

Be sure to define the UserSession timeout following this guideline:

EnterpriseOne HTML server session timeout < EnterpriseOne ADF Container session timeout < AIS server session timeout

Note: Make sure that you complete all three of the above sections.



7 Configuring Mobile Devices for ADF Applications (Release 9.2.0.2)

Configuring Safari Settings on Apple iPad

In order for an Apple iPad to properly display ADF applications, you must change the **Block Cookies** setting to "Always Allow." This setting can be found in the Settings application under Safari, Privacy & Security Settings.





8 Troubleshooting

Manually Deploying the EnterpriseOne ADF Artifacts to WebLogic

The section describes how to deploy:

- The EnterpriseOne ADF Application Library
- The EnterpriseOne JDEADFContainer Web Application

Deploying EnterpriseOne ADF Application Library

This section describes how to deploy the JDE ADF application library WAR file.

- 1. Open the WebLogic Server Administration Console application.
- 2. In the Domain Structure area located on the left side of the screen, click Deployments.
- 3. In the Change Center area located on the left side, above the Deployments area, click the Lock & Edit button.
- 4. In the Summary of Deployments area, click the Install button. The Install Application Assistant displays.
- 5. In the Locate deployment to install and prepare for deployment area, click the upload your file(s) link.
- 6. In the Deployment Archive section, click the Choose File button.
- 7. Locate the JDETaskFlowLibrary.war file, select it, and then click the OK button.
- 8. Click the Next button.
- 9. Select the "Install this deployment as a library" option and click the Next button.
- **10.** In the Available targets for oracle.jde.app.library section, select the ADF server(s) to which you want to deploy the JDETaskFlowLibrary.war file, and then click the Next button.
- **11.** Click the Finish button without changing the name of the deployment. The JDETaskFlowLibrary.war file deploys to the ADF server.
- 12. After the JDETaskFlowLibrary.war file deploys, in the Change Center area located on the left of the screen, click the Activate Changes button.
- **13.** Verify that final state of the library is Active and the type is Library.

Deploying EnterpriseOne JDEADFContainer Web Application

This section describes how to deploy the JDEADFContainer .EAR file.

- 1. Open the Weblogic Server Administration Console application.
- 2. In the Domain Structure area located on the left side of the screen, click Deployments.
- 3. In the Change Center area located on the left side, above the Deployments area, click the Lock & Edit button.
- **4.** In the Summary of Deployments area, click the Install button. The Install Application Assistant displays.
- 5. In the Locate deployment to install and prepare for deployment area, click the upload your file(s) link.
- 6. In the Deployment Archive section, click the Choose File button.
- 7. Locate the JDEADFContainer.ear file, select it, and then click the OK button.
- 8. Click the Next button.



- 9. Select the "Install this deployment as an application" option and click the Next button.
- 10. In the Available targets for JDEADFContainer section, select the ADF server to which you want to deploy the JDEADFContainer.ear file, and then click the Next button.
- **11.** If needed, change the deployment name, so the current deployment can be uniquely identified in the deployments list. This is especially useful when deploying multiple JDEADFContainer instances to different ADF targets on the same WebLogic Server. Click the Finish button to complete the deployment.

The JDEADFContainer.ear file deploys on the ADF server.

- 12. After the JDEADFContainer.ear file deploys, in the Change Center area located on the left of the screen, click
- the Activate Changes button. 13. In the Deployments list, select the JDEADFContainer instance you just deployed, and then select the Servicing All Requests option located in the Start drop-down menu.
- 14. The Start Application Assistant screen displays. Click the Yes button in the Start Deployments section to start the JDEADFContainer web application.
- 15. Verify that the final state of the JDEADFContainer web application is Active and the type is Enterprise Application.

Build Scripts Additional Information

There are two Ant scripts required to install and deploy ADF libraries on a Weblogic server. Both Ant scripts use the wldeploy task to deploy artifacts to server instances or clusters on a Weblogic server. Both of the Ant scripts provide these additional targets:

Ant Script Target	Description
clean	Removes the build and deploy directories.
usage	Displays a list of command line options that will provide additional information about Ant or the build scripts.
undeploy	Removes the JDEADFContainer.ear or the JDETaskFlowLibrary.war from Weblogic server, depending on which ant script is executed.

Executing the Build Script from JDeveloper

The JDE Ant build files can be executed from within JDeveloper by adding the Ant targets to the Tools menu as External Tool executables.

To execute Ant Targets from JDeveloper menu

- 1. In JDeveloper, click Tools, then External Tools, and then select New from the External Tools dialog box.
- 2. Click Next.
- Browse to the Ant build file you want to run, and click Next.
- Move the build-and-deploy target to the Selected Targets field, and then click Next.

- - 5. Set the Weblogic username and password properties needed for the build-and-deploy, deploy, and undeploy targets only. For any other Ant target in the script, these properties are not used. The administrative username - weblogic.username The administrative password - weblogic.password
 - 6. Select the Use Default Ant Version option, and then click Next.
 - 7. Specify the options for the Ant process, and then click Next.
 - 8. The Weblogic.jar includes the class definition for the wideploy Ant task used to deploy/undeploy files to/from a Weblogic server. The Weblogic.jar file can be found in the <Weblogic_HOME>/server/lib directory, where Weblogic_HOME is the top-level directory of your Weblogic Server installation. This step is not necessary for any other Ant target in the build scripts.
 - 9. Enter a caption for the menu item, and then click Next.
 - 10. Select the Tools Menu option for the Add Items to Menus list, and then click Next.
 - **11.** Select Always, and then click Finish. Once the Ant target is added, it can be executed from the Tools menu. During execution, the Apache Ant log will display the Ant target's status and display messages if any exceptions are thrown.

EnterpriseOne ADF Deployment Additional Information

EnterpriseOne ADF application deployment supports clustering.

Error Messages and their Meanings

This section describes error messages you may see and provides an explanation of what they mean:

1. Error: System issues prevent the application from opening. Please contact your system administrator. The EnterpriseOne HTML server Jas log would contain additional information: "The external application launch has failed. The handshake id is null or never completed its initialization. Verify that your system is running and its ini settings are properly configured."

As the message notes, the handshake ID is either null or blank. Potential reasons for this situation could be 1. jasWhitelist on ADF server is not configured correctly and 2. AIS or ADF server(s) is (are) down.

2. Error: Invalid application data. Please contact your system administrator. Ensure that the proxy application associated with the EnterpriseOne ADF application is properly defined and secured. Users could see this error message if the EnterpriseOne task containing the EnterpriseOne ADF application lacks a proxy app and/or task flow path/url. See the JD Edwards EnterpriseOne Tools Solution *Explorer Guide* for additional details on this EnterpriseOne ADF application task).

ADF Charts

The ADF charts continue trying to load when there is not a monitor associated with the server. When this happens, the following error appears in the Weblogic Server Diagnostic logs:



Can't connect to X11 window server using '10.111.111.150:0.0' as the value of the DISPLAY variable.

To fix this circumstance, configure the server instances with the following Java property set to "true":

-Djava.awt.headless=true

Setting this property to "true" prevents the Java runtime from attempting to find a monitor to get the DISPLAY variable.

To configure this property in WebLogic Server:

- 1. On the Server Start tab, add -Djava.awt.headless=true in the Arguments field.
- 2. Click Save.
- **3.** Restart the managed instance.

Host Verification Errors, or Failure to Open ADF Application

If you have configured a reverse proxy and enabled Secure Sockets Layer (SSL), ensure that the Host Verification setting is set to None. You can locate this setting on your Web Logic Server, on the SSL tab, in the Advanced section.

