## **Oracle® Banking Platform Collections**

Customization Guide Release 2.6.2.0.0 E95189-01

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# Preface

This document describes the various software and configuration options required to customize the Oracle Banking Collections.

This preface contains the following topics:

- Audience
- Documentation Accessibility
- Organization of the Guide
- Conventions

# Audience

This document is intended for the users customizing Oracle Banking Collections.

# **Documentation Accessibility**

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/us/corporate/accessibility/index.html.

## Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/us/corporate/accessibility/support/index.html#info or visit http://www.oracle.com/us/corporate/accessibility/support/index.html#trs if you are hearing impaired.

# Organization of the Guide

This document contains:

## **Chapter 2 Customizing Collections**

This chapter describes the steps to be performed to configure Collections.

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

# **1 About this Guide**

This guide is applicable for the following products:

- Oracle Banking Platform
- Oracle Banking Enterprise Collections

References to Oracle Banking Platform or OBP in this guide apply to all the above mentioned products.

# **2 Customizing Collections**

This chapter describes the steps to be performed to configure Collections.

# 2.1 Prerequisites

Following are the prerequisites:

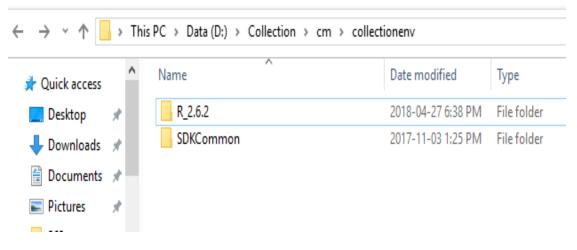
- Jdk1.8 64 bit is installed
- Weblogic Server 12.2.1.2.0 is installed

# 2.2 Customizing Collections

To customize Collections:

- 1. Download **CollectionSDK.rar** from the following location: http://edelivery.oracle.com/
- 2. Make an installation directory. (Example used in the document is D:\Collection\cm)
- 3. Make collectionenv directory in installation directory.
- 4. Unzip the CollectionSDK.rar on your D: drive.
- 5. Copy the **SDKCommon** and **R\_2.6.2** folders to <installationDirectory>/collectionenv.

Figure 2–1 Copy SDKCommon and R\_2.6.0031



 Download hibernate-release-4.1.0.Final.zip from below link. http://sourceforge.net/projects/hibernate/files/hibernate4/

- 7. Create a hibernate directory at D:/Collection and follow the below steps:
  - a. Extract downloaded hibernate-release-4.1.0. Final.zip package in D: drive.
  - b. Copy below jars from extracted hibernate-release-4.1.0/lib/required folder to created hibernate path.
    - i. hibernate-commons-annotations-4.0.1.Final.jar
    - ii. hibernate-core-4.1.0.Final.jar
    - iii. jboss-logging-3.1.0.CR2.jar
    - iv. hibernate-jpa-2.0-api-1.0.1.Final.jar
    - v. jboss-transaction-api\_1.1\_spec-1.0.0.Final.jar
    - vi. dom4j-1.6.1.jar
  - c. Copy below jar from extracted hibernate-release-4.1.0/ lib/optional/ehcache folder to created hibernate path.
    - i. hibernate-ehcache-4.1.0.Final.jar

#### Figure 2–2 Hibernate folder

in to Quick access Copy Past	Paste shortcut to + t	opy organize	New New folder New	access • Properties	Edit	Select all Select none Invert selection Select
← → ~ ↑ 🚺 ›	This PC > Data (D:) > Collectio	n > hibernate				
Ouick access	Name	Da	te modified	Туре	Size	
Desktop 🖈	🅌 dom4j-1.6.1.jar	20	05-08-01 9:27 PM	Executable Jar File	307 KB	
United Street St	🌆 hibernate-commons-an	notations-4.0.1.F 20	11-11-29 11:17	Executable Jar File	80 KB	
Documents *	🍝 hibernate-core-4.1.0.Fin	al.jar 20'	12-02-08 11:36	Executable Jar File	4,216 KB	
	🍝 hibernate-ehcache-4.1.0	).Final.jar 20	12-02-08 11:38	Executable Jar File	134 KB	
📰 Pictures 🛛 🖈	🎒 hibernate-jpa-2.0-api-1.	0.1.Final.jar 20	11-06-14 9:42 PM	Executable Jar File	101 KB	
logs	실 jboss-logging-3.1.0.CR2	.jar 20'	11-11-22 9:53 PM	Executable Jar File	60 KB	
old	🎒 jboss-transaction-api 1.	1 snec-100 Fina 20	10-10-21 11:48	Executable Jar File	11 KB	

## 2.3 Using the Collection Installer

To use Collection Installer for customization setup:

- 1. Download the Collection Installer from the following location: http://edelivery.oracle.com/
- 2. Copy the OBP Collections 2.6.1.0.0 installation package, Collection\_V26[Build\_Number].zip, which you have downloaded from the edelivery to a TEMP location.
- 3. Extract the zip.
- 4. Uncompress the Collection\_V26[Build\_Number].zip file using the following command:

cd <PATH>/TEMPDIR unzip Collection\_V26[Build\_Number].zip

Where, <PATH> is the path where the TEMPDIR folder is located.

The contents of the zip file are extracted in the TEMPDIR folder.

#### Figure 2–3 TEMPDIR Content

^	Name	Date modified	Туре	Size
	📙 data	2018-04-26 5:33 PM	File folder	
	🕌 collectioninstaller.jar	2018-03-20 7:26 PM	Executable Jar File	121 KB
	🛓 collectionupgradeinstaller.jar	2018-03-20 7:26 PM	Executable Jar File	92 KB
	config.properties	2018-03-20 7:26 PM	PROPERTIES File	2 KB
	📋 Install.sh	2018-03-20 7:26 PM	SH File	19 KB
	Install_Silent.sh	2018-03-20 7:26 PM	SH File	23 KB
	DBEC_V262.zip	2018-03-20 7:28 PM	ZIP File	1,054,086 KB
	ouaf.properties	2018-03-20 7:26 PM	PROPERTIES File	1 KB

5. Change the **IS\_DEV\_ENV** property in config.properties to *True*.

#### Figure 2–4 Config.properties



- 6. Run the executable jar (java -jar collectioninstaller.jar). The Collection Installer opens.
- 7. In the Initial Details dialog box, enter the **Installation Directory** as *D*:\*Collection*\*cm* as the location where collection is to be installed.

Figure 2-5	Collection	Installer:	Initial	Details
------------	------------	------------	---------	---------

😑 OB Collection Installer : Initial Details	_	
ORACLE"	OB Collection Installer : Initial Details	
Operating System	Windows	
Installation Directory	D:\Collection\cm	
Genrerate Host Configuration		
Genrerate UI Configuration		
Genrerate Batch Configuration		
Generate Thread Pool Configuration		
Customization Support Required	$\mathbf{\nabla}$	
N	ext	

- 8. Select the Customization Support Required checkbox.
- 9. Click Next.

Figure 2–6 Collection Installer:Weblogic Server Details

DRACLE	OB Collection Installer : Weblogic Server	Details	
Web Server Home	D:\server\wis122120		
DB Ip Address	<db address="" ip=""></db>		
DB Port	1521		
DB SID	<db sid=""></db>		
Username	<db username=""></db>		
Password	******		
Log Directory	D:\Collection\cm\logs		
Hibernate Directory	D:\Collection\hibernate		
	Previous Next		

10. In Server Details dialog box, enter required details and click Next.

Web Server Home: Path to the Weblogic home directory (Example : D:\server\wls122120)

Username/Password: Credentials of the DB

- 11. Click Generate.
  - Figure 2–7 Collection Installer: Confirm Installation Details

OB Collection	Installer : Confirm installation details		×
ORACLE	OB Collection Installer : Confirm installation deta	ils	
Customizatio Theadpool C Webserver H ThreadPool N Connction Po Db IP Addres Db Port=152 SID=	ooled = No ss=		
	Previous Generate		

12. Click Done.



OB Collection	Installer : Installing	1.00	×
ORACLE	OB Collection Installer : Installing		
	Creating directory structure.		
	Creating directory structure successful.		
	Extracting OUAF libs		
	Extracting OUAF Successful		
	Copying Cutomization files libs.		
	Cleanup of extracted files. Cleanup of extracted files successful.		
	Installation completed successfully!		
	100%		
	Done		

# 2.4 Downloading and Configuring Software and Jar Files

This section provides information on downloading and configuring the requisite software and jar files.

## 2.4.1 Downloading Eclipse

To download Eclipse:

- Download Eclipse Neon from the following location: http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/neon/3/ecl ipse-java-neon-3-win32-x86\_64.zip
- 2. Copy the downloaded Eclipse folder to the R\_2.6.2 folder.
- 3. Copy Plugins from SDKCommon to Eclipse plugin folder.

From location : \SDKCommon\plugins

To location : \R\_2.6.2\Eclipse\plugins

📙   🕑 📑 🗕 R_2.6.2				
File Home Share View				
Image: Pin to Quick access     Copy and base access     Paste     Image: Copy access	Move Copy to Copy	New if New folder		☐ Open ▼       ☐ Edit       S       ✓ History
Clipboard	Organize	New	(	Open
	Collection > cm > collection		<b>-</b>	<i>c</i> :
standalo		ate modified )17-04-03 1:53 PM	Type File folder	Size
bin CollectionW	/eb 20	)18-04-24 4:08 PM	File folder	
lib eclipse	20	)18-04-24 12:36	File folder	

#### Figure 2–9 Copy Eclipse 4.4

## 2.4.2 Downloading Required Jars

- Download json-rpc jar from the following url:https://mvnrepository.com/artifact/com.metaparadigm/json-rpc/1.0
- 2. Copy the jar file to the following location:

\SDKCommon\tools

## 2.4.3 Configuring eclipse Project

To select and configure eclipse Project:

1. Create a new folder named Workspace where you have installed the Collection environment.

#### Figure 2–10 Create Workspace Folder

rganize 👻 🧊 Open 🛛 Include in libr	ary 🔹 Share with 👻 New f	older		)# • 🗊 🕯
lame *	Date modified	Туре	Size	
L collenctionenv	4/3/2017 3:22 PM	File folder		
🕌 workspace	4/6/2017 10:40 AM	File folder		

- Navigate to the following location: D:\Collection\cm\collenctionenv\R\_2.6.2\eclipse
- 3. Double-click Eclipse.exe.

Figure 2–11 Double-click Eclipse.exe

	-				
📙   🛃 📑 =	Application Tools ecl	ipse			
File Home Share	View Manage				
	Cut Copy path Paste shortcut		New item ▼ 1 1 1 1 1 1 1 1 1 1 1 1 1	Properties	Sele Sele Inve
Clipboard	Orga	nize	New	Open	5
← → × ↑ 🔒 > This	PC > Data (D:) > Collection > c	m > collectionenv	> R_2.6.2 > eclipse		
lib ^	Name	Date	modified Type	Size	
hirdpart	configuration	2018-	04-24 12:37 File fol	der	
web	dropins	2017-	03-14 1:52 PM File fol	der	
lib	features	2018-	04-24 12:28 File fol	der	
<b>Zz</b> V75597-C	p2	2018-	04-24 12:37 File fol	der	
DBEC_V262.	plugins	2018-	04-24 12:28 File fol	der	
app		2018-	04-24 12:28 File fol	der	
bkp	.eclipseproduct	2017-	01-03 2:14 PM ECLIPS	EPRODUCT 1	KB
	artifacts.xml	2017-	03-14 1:52 PM XML D	ocument 128	KB
Collection	🖨 eclipse.exe	2017-	03-14 1:53 PM Applica	ation 313	КВ
cm	eclipse.ini	2018-	04-24 12:36 Config	uration sett 1	KB
collection	eclipsec.exe	2017-	03-14 1:53 PM Applica	ation 25	KB
ks					

4. In the Workspace Launcher dialog box, click **Browse**, and locate the path where you have created workspace folder.

Figure 2–12 Workspace Launcher

💭 Eclipse Launcher		×
Select a directory as workspace		
Eclipse uses the workspace directory to store its preferences an	d development artifacts.	
Workspace: D:\Collection\cm\workspace		Browse
Recent Workspaces		
Copy Settings		
?	ОК	Cancel
	· · · · · · · · · · · · · · · · · · ·	

- 5. Click OK.
- 6. Right-click the Project Explorer, and select Import --> Import.

Figure 2–13 Project Explorer - Import

	New	Þ		
	Show In	Alt+Shift+W ▶		
Đ	Сору	Ctrl+C		
Đ	Copy Qualified Nam	e		
Ē	Paste	Ctrl+V		
х	Delete	Delete		
	Build Path	+		
	Import	۱.	•	App Client JAR file
4	Export		G,	EAR file
8	Refresh	F5	۵,	EJB JAR file
_			=	J2EE Utility Jar
			۵	RAR file
			6	WAR file
			2	Import

7. In the Import dialog box, select the Existing Projects into Workspace option.

Figure 2–14 Select Existing Projects into Workspace

Import	
Select Create new projects from an archive file or directory.	Ľ
Select an import source:	
type filter text	
<ul> <li>General</li> <li>Archive File</li> <li>Breakpoints</li> <li>Existing Projects into Workspace</li> <li>File System</li> <li>Preferences</li> <li>CVS</li> <li>EJB</li> <li>J2EE</li> <li>Mylyn</li> <li>Plug-in Development</li> <li>Team</li> <li>Web</li> <li>Web services</li> </ul>	
? < Back Next > Finish	Cancel

- 8. Click Next.
- 9. In the Import dialog box, select Select root directory option, and click Browse.
- 10. In the Browse For Folder, select eclipseProject.

You can locate the eclipseProject at:

{Collection Environment Directory}\SDKCommon\eclipseProject

Import		
Import P Select a c	<b>Projects</b> lirectory to search for existing Eclipse projects.	
Select	root directory:	Browse
Select and a select a selec	archive file:	Browse
Projects	Browse For Folder	×
	Select root directory of the projects to import	
	🛛 🌛 cobol_runtime	*
	CodeGenerationTool	
	Collection	
	Image: A constraint of the second	=
	Collectionenv Descriptionenv	
Cop	A 📙 SDKCommon	
	> 퉲 cobol	
	eclipseLaunchScripts	
	le clipseProject	
?	⊳ 👑 java	~
_	Folder: eclipseProject	
	Make New Folder	OK Cancel
🔲 Prop		

Figure 2–15 Browse and Locate eclipseProject

- 11. Click OK.
- 12. In the Import dialog box, click **Finish.**

Figure	2–16	Import	Projects	- Finish
--------	------	--------	----------	----------

Jmport		×
Import Projects Select a directory to search	h for existing Eclipse projects.	
<ul> <li>Select root directory:</li> <li>Select archive file:</li> <li>Projects:</li> </ul>	D:\Collection\cm\collectionenv\SDKCommon\	Browse Browse
Copy projects into wo	rkspace	Select All Deselect All Refresh
0	< Back Next > Finish	Cancel

## 2.4.4 Creating Linked Resource

To create linked resource:

- 1. Navigate to **Window --> Preferences.**
- 2. In the **Preferences** dialog box, go to **General --> Workspace --> Linked Resource.**

General       ▲            • Appearance         • Capabilities         • Compare/Patch         • Content Types         • Editors         • Editors         • Error Reporting         • Globalization         • Keys         • Network Connections         • Notifications         • Perspectives         • Search         • Security         • Secu	⇔ • ⇒ •	ources	Linked Res	r text	e filter text
<ul> <li>Appearance         <ul> <li>Capabilities</li> <li>Compare/Patch</li> <li>Content Types</li> <li>Editors</li> <li>Error Reporting</li> <li>Globalization</li> <li>Keys</li> <li>Network Connections</li> <li>Notifications</li> <li>Perspectives</li> <li>Search</li> <li>Startup and Shutdown</li> <li>Tracing</li> <li>UI Responsiveness Mo</li> <li>User Storage Service</li> <li>Web Browser</li> <li>Build Order</li> <li>Build Order</li> <li>Build Order</li> <li>Build Order</li> <li>Linked Resources</li> <li>Local History</li> </ul> </li> </ul>		resources	Enable linked		
Compare/Patch Content Types Editors Error Reporting Globalization Keys Network Connections Notifications Perspectives Search Security Service Policies Startup and Shutdown Tracing UI Responsiveness Mo User Storage Service Web Browser Build Order Linked Resources Local History					
<ul> <li>Content Types</li> <li>Editors</li> <li>Error Reporting</li> <li>Globalization</li> <li>Keys</li> <li>Network Connections</li> <li>Notifications</li> <li>Perspectives</li> <li>Search</li> <li>Security</li> <li>Service Policies</li> <li>Startup and Shutdown</li> <li>Tracing</li> <li>UI Responsiveness Mo</li> <li>User Storage Service</li> <li>Workspace</li> <li>Build Order</li> <li>Endition</li> </ul>	2320.V			NY 10 112 122 123 123 124 124 124 124 124 124 124 124 124 124	
<ul> <li>Editors</li> <li>Etror Reporting         <ul> <li>Globalization</li> <li>Keys</li> </ul> </li> <li>Network Connections         <ul> <li>Notifications</li> <li>Perspectives</li> <li>Search</li> <li>Startup and Shutdown</li> <li>Tracing             <ul> <li>UI Responsiveness Mo</li> <li>User Storage Service</li> <li>Web Browser</li> <li>Build Order</li> <li>Linked Resources</li> <li>Local History</li> </ul> </li> </ul> </li> </ul>	lers	Copy C Link C Link and create virtual folders	• Prompt (		1
<ul> <li>Error Reporting         Globalization         Keys         Gobalization         Keys         Network Connections         Notifications         Perspectives         Search         Search         Security         Service Policies         Startup and Shutdown         Tracing         UI Responsiveness Mo         User Storage Service         Web Browser         Suid Order         Envice Resources         Local History         Search         Suid Order         Suid Order</li></ul>		items on a virtual folder	Drag and drop	이 사람은 것 같은 것은 것 같은 것을 알았다.	
Globalization Keys Network Connections Notifications Perspectives Search Security Security Security Startup and Shutdown Tracing UI Responsiveness Mo User Storage Service Web Browser Workspace Build Order Linked Resources Local History					
<ul> <li>Keys</li> <li>Network Connections</li> <li>Notifications</li> <li>Perspectives</li> <li>Search</li> <li>Security</li> <li>Service Policies</li> <li>Startup and Shutdown</li> <li>Tracing</li> <li>UI Responsiveness Mo</li> <li>User Storage Service</li> <li>Web Browser</li> <li>Build Order</li> <li>Linked Resources</li> <li>Local History</li> </ul>			se Prompe s		
<ul> <li>Network Connections         <ul> <li>Notifications</li> <li>Perspectives</li> <li>Search</li> <li>Security</li> <li>Service Policies</li> <li>Startup and Shutdown</li> <li>Tracing</li> <li>UI Responsiveness Mo</li> <li>User Storage Service</li> <li>Web Browser</li> <li>Build Order</li> <li>Local History</li> </ul> </li> </ul>					
Perspectives     Search     Security     Security     Service Policies     Startup and Shutdown     Tracing     UI Responsiveness Mo     User Storage Service     Web Browser     Suid Order     Suid Order     Linked Resources     Local History	of linked resource	ecify locations in the file system. The locations of	Path variables sp		1.
<ul> <li>Search</li> <li>Security</li> <li>Service Policies</li> <li>Startup and Shutdown</li> <li>Tracing</li> <li>UI Responsiveness Mo</li> <li>User Storage Service</li> <li>Web Browser</li> <li>Workspace</li> <li>Build Order</li> <li>Linked Resources</li> <li>Local History</li> </ul>		relative to these path variables.	may be specified	lotifications	Notific
Security		iables:	Defined path var	erspectives	Perspe
Service Policies Startup and Shutdown Tracing UI Responsiveness Mo User Storage Service Web Browser Build Order Build Order Linked Resources Local History	New	Value	Name	earch	- Search
<ul> <li>Startup and Shutdown</li> <li>Tracing</li> <li>UI Responsiveness Mo</li> <li>User Storage Service</li> <li>Web Browser</li> <li>Workspace</li> <li>Build Order</li> <li>Linked Resources</li> <li>Local History</li> </ul>		Accession			
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UI Responsiveness Mo User Storage Service Web Browser Build Order Linked Resources Local History	Remov			And the second state of th	
User Storage Service Web Browser Build Order Unked Resources Local History	Renov				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Web Browser  Build Order  Linked Resources  Local History					
Workspace Build Order Linked Resources Local History					
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Local History					
				and the second second second second second	and the second se
and a second secon				Local Plants (	
Cloud Foundry				Foundry	Cloud Four
			1	•	(-can be so the so
	1000				

Figure 2–17 Linked Resources

- 3. Click New.
- 4. In the **New Variable** dialog box, type *asBase* in the **Name** field.

Figure 2–18 New Variable asBase

💭 New Variable		_ 🗆 ×
<b>Define a New Path Variab</b> i Path must be absolute.	le	
Name: asBase	File	Folder
?	OK	Cancel

5. To specify location, click **Folder** and select the location where you have installed the Collection environment.

💻 Des	ktop	_
🕀 詞 Li	braries	
🗄 😹 R	akesh R. Nair	
3 🜉 O	F55312940	
+ 🏭	Local Disk (C:)	
	New Volume (D:)	
Ξ	Collection	
Ξ	🍌 cm	
	王 🍌 collenctionenv	
	🕀 🍌 workspace	
<b>+</b>	Collection_old	
±	CollectionSDK	
±	com.ofss.fc.ui.common	
±۱	b Db	
	earlycollections	
±.	eclipse	
E	GEN	-

#### Figure 2–19 Select Folder

6. Click **OK.** The new variable name and location is set.

Figure 2–20 New Variable Name and Location

New V	ariable		
	a New Path Variable new variable name and its associated loca	tion.	
Name:	asBase		
Location:	D:\Collection\cm\collenctionenv	File	Folder
?		ОК	Cancel

7. Click OK.



Appearance     Capabilities     Compare/Patch     Content Types     Editors     Error Reporting     Globalization     Keys	Prompt C C     Drag and drop ite	esources ems on a folder or project Copy C Link C Link and create virtual fold ems on a virtual folder ink C Link and create virtual folders	lers
		cify locations in the file system. The locations elative to these path variables.	of linked resources
- Perspectives - Search	Defined path varia	Value	New
Security     Service Policies	asBase	D:\Collection\cm\collenctionenv	Edit
Startup and Shutdown     Tracing     UI Responsiveness Mo     User Storage Service     Web Browser     Workspace     Build Order     Linked Resources     Local History     Cloud Foundry			Remove

- 8. Click OK.
- 9. Refresh project.

## 2.4.5 Creating weblogic domain

This section provides information on creating a new weblogic domain.

- 1. Open the weblogic installation directory.
- 2. Execute wlstpy.cmd.
- 3. New domain <weblogic\_root>/user\_projects/domains/cm\_domain will be generated.
- 4. Remove jar cglib.cglib-nodep.jar from the location <weblogic\_root>/wlserver/modules.
- 5. Edit <weblogic\_root>/user\_projects/domains/cm\_domain/setDomainEnv.cmd
  - a. Search for @REM IF USER\_MEM\_ARGS
  - b. Add below line next to it
- 6. Set USER\_MEM\_ARGS=-Xms128m -Xmx3072m %MEM\_DEV\_ARGS% %MEM\_MAX\_PERM\_

#### SIZE%

Figure 2–22 Edit setDomainEnv.cmd

```
call "%DOMAIN_HOME%\bin\setStartupEnv.cmd"
)

@REM Set user overrides, if available.

if exist %DOMAIN_HOME%\bin\setUserOverrides.cmd (
    call "%DOMAIN_HOME%\bin\setUserOverrides.cmd"
)

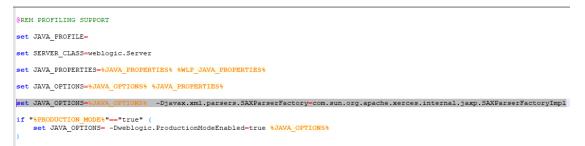
@REM IF USER_MEM_ARGS the environment variable is set, use it to override ALL MEM_ARGS
set USER_MEM_ARGS=-Xms128m -Xmx3072m %MEM_DEV_ARGS% %MEM_MAX_PERM_SIZE%
if NOT "%USER_MEM_ARGS%"==""" (
    set MEM_ARGS=%USER_MEM_ARGS%
)

set JAVA_PROPERTIES=-Dwls.home=%WLS_HOME% -Dweblogic.home=%WLS_HOME%
```

- a. Search for @REM PROFILING SUPPORT
- b. Add below line as show in screenshot and save setDomainEnv.cmd file
- 7. Set JAVA\_OPTIONS=%JAVA\_OPTIONS% -

Djavax.xml.parsers.SAXParserFactory=com.sun.org.apache.xerces.internal.jaxp.SAXParserFactory Impl

Figure 2–23 Edit setDomainEnv.cmd



- 8. Run <weblogic\_root>/user\_projects/domains/cm\_domain/startWebLogic.cmd to bring the adminserver up.
- 9. Open http://localhost:7001/console with default username/password: weblogic/weblogic1.
- 10. Open cm\_domain ->JTA and increase the timeout seconds to 300.
- 11. Click Save.

ettings fo	or cm_	domain							
Configura	ation	Monitoring	Control	Securi	ty Web Service Ser	ecurity	ZDT Control	Notes	
General	JTA	Concurrency	/ JPA	EJBs	Web Applications	Logging	Log Filters	Batch	
Save									
Use this	page to	define the Ja	va Transao	ction API	(JTA) configuration	of this We	ebLogic Server	domain.	
Fimeout	Secon	ds:						3	300
Abandon	Timeo	out Seconds:						8	36400
Before C	omplet	tion Iteration	n Limit:					1	10
Max Trai	isactio	ons:						1	10000
Max Uniq	jue Na	me Statistics	:					1	1000
Checkpoint Interval Seconds:						3	300		

## Figure 2–24 JTA Timeout

## 2.4.6 Updating deploy.xml

This section provides information on the various file updates required.

- 1. Change deploy.xml.
  - a. Navigate to project **cm --> tools --> deploy.xml** and open it.
  - b. Change the asBase variable to {Collection Environment Directory}.
  - c. Change the webBase variable to {Weblogic server root directory}.

#### Figure 2–25 deploy.xml

👷 de	ploy.xml 🕱	
1	xml version="1.0"?	^
20	<project default="all" name="build"></project>	
3	<property name="module.name" value="cm"></property>	
4	<property name="asBase" value="D:/Collection/cm/collectionenv"></property>	
5	<property name="webBase" value="D:/server/wls122120"></property>	
6	<property name="build.dir" value="\${asBase}/SDKCommon/java/target/\${module.name}"></property>	
7	<property name="deploy.dir" value="\${asBase}/standalone/lib"></property>	
8	<property name="spl-service-ear.file" value="SPLService.ear"></property>	
9	<property name="serviceBeanJar.file" value="spl-servicebean-4.3.0.1.0.jar"></property>	
10	<property name="jarDir" value="\${asBase}/standalone/lib"></property>	
11	<property name="spl-properties-jar.file" value="spl-properties.jar"></property>	
126		
13	<include name="*.jar"></include>	
14	<exclude name="\${serviceBeanJar.file}"></exclude>	
15		
16	<property name="tomcat.dir" value="\${asBase}/R_2.5/tomcat-6.0.14/bin"/ >	
17	<pre><!-- <property name="standalone.dir" value="\${asBase}/standalone/lib"/-->&gt;</pre>	
18		
19	creating \${module.name} jar	~
	<	>

## 2.4.7 Setting Variable in cmDeploy

To set asBase variable in cmDeloy ant script:

1. Navigate to **Open External Tools Dialog**by clicking Run -> External Tools -> ExternalTools Configurations.

Figure 2–26 Open External Tools Dialog



2. In the **External Tools** dialog box, select **cmDeploy** and edit asBase and webBase property.

External Tools Configurations			×
Create, manage, and run configura Run an Ant build file.	tions		
Image: Specific state     Image: Specific state       Image: Specific state     Image: Specific state    <	Use global properties as specif	of the Ant runtime preferences	<u>C</u> ommon
	Name  Name  Seclipse.pdebuild.home  Comparison of the seclipse.pdebuild.scripts  Comparison of the seclipse.pdebuild.templates  Property files:	Value D:\Collection\cm\collectionenv /\${asBase}/R_2.6/Eclipse/plugins/org.eclipse.pde.build_3.3.2.v20071019// /\${asBase}/R_2.6/Eclipse/plugins/org.eclipse.pde.build_3.3.2.v20071019/ser /\${asBase}/R_2.6/Eclipse/plugins/org.eclipse.pde.build_3.3.2.v20071019/ter D:\server\wls122120	Add P <u>r</u> operty Edit Property Rem <u>o</u> ve
Filter matched 3 of 3 items		Reyert	Add Files Add E <u>x</u> ternal Re <u>m</u> ove Appl <u>y</u>
?		Run	Close

#### Figure 2–27 External Tools - asBase

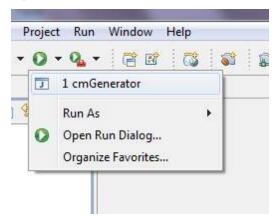
3. Click Edit Property and specify the path where you have installed collection environment.

Figure 2–28 asBase - Edit User Property

Name:	asBase
Value:	D:/Collection/cm/collectionenv
	Variables.
	OK Cancel

- 4. Click **Ok** and apply.
- 5. Run the artifact generator to ensure that the setup runs correctly.

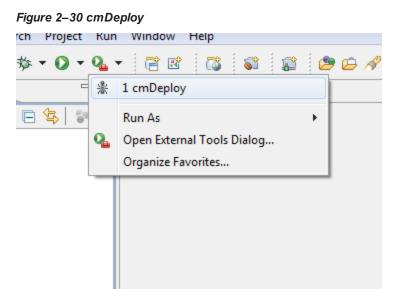
Figure 2–29 Artifact Generator



## 2.4.8 Creating and Deploying cm.jar

To create and deploy cm.jar:

1. Create cm.jar and SPLService.ear using cmDeploy Ant script.



After you run the ant script, cm.jar is created at following location: {Your collection environment}\standalone\lib\cm.jar

## 2.4.9 Deploying SPLService, CollectionWeb and ohelp

Deploy the CollectionWeb application to the newly created domain.

- 1. Stop weblogic server using below command :
  - a. cd <Insatllation Directory>/user\_projects/domains/cm\_domain/bin
  - b. stopWeblogic.cmd
- 2. Open http://localhost:7001/console with default username/password: weblogic/weblogic1

#### Step 1 Deploy SPLService.ear

- 1. Navigate to Deployments -> Install
- 2. Specify SPLService.ear path :

<Insatllation Directory>/ collectionenv/R\_2.6.0.2

#### Figure 2–31 Deploy SPLService.ear

🔒 Home Log Out Preferences 🔤	Record Help	Welcome, weblogic	Connected to: cm_domai
Home >Summary of Deployments			
Install Application Assistant			
Back Next Finish Cancel			
Locate deployment to install an	d prepare for deployment		
directory or file in the Path field.		application module descriptor that you want to install. You can also enter the pat ) and/or confirm that your application contains the required deployment descripto	
Path:	D:\Test\CMInstaller\Collection\cm\collectionenv\R_2.6.2\S	PLService.ear	
Current Location:	10.180.6.6 \ D: \ Test \ CMInstaller \ Collection \ cm \ collectionenv \	R_2.6.2	
AWB			
CollectionWeb			
eclipse			
🗀 help			
🔍 🎥 Web (open directory)			
CollectionWeb.ear			
collectionweb.war			
🔍 🗖 ohelp.ear			
SPLService.ear			

Back Next Finish Cancel

- 3. Select SPLService.ear ->Install as Applicaction
- 4. Click Next -> Finish
- 5. Default Deployment Order: 100
- 6. Click Save

## Step 2 Deploy CollectionWeb.ear

- 1. Navigate to Deployments -> Install
- 2. Specify CollectionWeb.ear path :

<Insatllation Directory>/collectionenv/R\_2.6.2/



Home >Summary of Deployme	ents
nstall Application Assistant	
Back Next Finish C	Cancel
Locate deployment to inst	tall and prepare for deployment
Select the file nath that renre	sents the application root directory, archive file, exploded archive directory, or application module descriptor th
	sents the application root directory, archive file, exploded archive directory, or application module descriptor the
directory or file in the Path fie	eld.
directory or file in the Path fie	
directory or file in the Path fie	eld.
directory or file in the Path fie Note: Only valid file paths ar	eld. e displayed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your applic
directory or file in the Path fie Note: Only valid file paths ar Path: Current Location:	eld. re displayed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your applic D:\Collection\cm\collectionenv\R_2.6.2\CollectionWeb.ear
directory or file in the Path fie Note: Only valid file paths an Path: Current Location:	eld. re displayed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your applic D:\Collection\cm\collectionenv\R_2.6.2\CollectionWeb.ear localhost \ D: \ Collection \ cm \ collectionenv \ R_2.6.1
directory or file in the Path fie Note: Only valid file paths ar Path: Current Location:	eld. re displayed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your applic D:\Collection\cm\collectionenv\R_2.6.2\CollectionWeb.ear localhost \ D: \ Collection \ cm \ collectionenv \ R_2.6.1

- 3. Select CollectionWeb.ear
- 4. Click Next -> Finish
- 5. Set Deployment Order: 200
- 6. Click Save

## Step 3 Deploying ohelp.ear

- 1. Navigate to **Deployments -> Install**
- 2. Specify SPLService.ear path :

<Insatllation Directory>/collectionenv/R\_2.6.2/

🛍 Home Log Out Preferences 🚵	Record Help
Home >Summary of Deployments	
Install Application Assistant	
Back Next Finish Cancel	
Locate deployment to install an	d prepare for deployment
directory or file in the Path field.	the application root directory, archive file, exploded archive directory, or application module descriptor that layed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your applicat
directory or file in the Path field.	
directory or file in the Path field. Note: Only valid file paths are disp	layed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your applicat
directory or file in the Path field. Note: Only valid file paths are disp Path: Current Location: WIs122120	layed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your applicat D:\Collection\cm\collectionenv\R_2.6.2\ohelp.ear
directory or file in the Path field. Note: Only valid file paths are disp Path: Current Location:	layed below. If you cannot find your deployment files, Upload your file(s) and/or confirm that your applicat D:\Collection\cm\collectionenv\R_2.6.2\ohelp.ear

Figure 2–33 Deploy ohelp.ear

- 3. Select ohelp.ear
- 4. Click Next -> Finish
- 5. Set Deployment Order: 300
- 6. Click Save

### Step 4 Checking State of above deployments

- 1. Navigate to **Deployment -> Install**
- 2. You can see State of both deployment will be Active.

### Step 5 Configure User:

- 1. Open http://localhost:7001/console
- 2. Navigate to Security Releams -> myrealm
- 3. Open User and Groups panel -> Groups -> new
- 4. Create new group **cisuser** as shown below:

Figure 2–34 Creatin	g new Group
ሰ Home Log Out Pro	eferences 🚈 Record Help
Home >myrealm >Sumr	nary of Security Realms >myrealm >Users and Groups > <b>myrealm</b>
Create a New Group	
OK	
Group Properties The following propert * Indicates required fiel	ies will be used to identify your new Group. Ids
What would you like to	) name your new Group?
* Name:	cisusers
How would you like to	describe the new Group?
Description:	cisusers desc
Please choose a provid	er for the group.
Provider:	DefaultAuthenticator ▼
OK	

- 5. Click OK
- 6. Navigate to Users panel -> new
- 7. Create new user **sysuser** as shown below:
- 8. Associate password for user (For eg. welcome1).

#### Figure 2–35 Creating new User

Create a New User	
OK	
User Properties	
The following properties will be used	to identify your new User.
* Indicates required fields	
What would you like to name your nev	v User?
* Name:	sysuser
How would you like to describe the ne	w User?
Description:	sysuser desc
Please choose a provider for the user.	
Provider:	DefaultAuthenticator <b>T</b>
The password is associated with the lo	gin name for the new User.
* Password:	•••••
* Confirm Password:	••••••
OK	

- 9. Click OK
- 10. Click on sysuser -> Groups
- 11. Select **Administrator** and **cisuser** and move to right as shown below:

Figure 2–36 Setting for new User

ettings for sysuser	
General Passwords Attributes	Groups
Save	
Use this page to configure group m	amharshin far this usar
Use this page to configure group in	tembership for this user.
Parent Groups:	
Available:	Chosen:
AdminChannelUsers	Administrators
AppTesters	cisusers
CrossDomainConnectors	>>>>
Deployers	
Monitors	< <
Operators	
OracleSystemGroup	

12. Click Save

## Step 6 Open Admin Screen:

- 1. http://localhost:7001/CollectionAdmin.
- 2. Login using sysuser and password associated to user.

## 2.4.10 Importing Test Project into Customization Setup

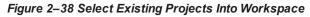
To import Test Project into customization setup:

1. Right-click Project Explorer, and select Import.

Figure 2–37 Import

増 Packag	ge Ex	plor 🛛  🏗 Hierarchy J Unit 🗖 🗖	
		수 수 👰 📄 🔄 🍃	
> 🔂 cm	n		
		New	+
		Show In	Alt+Shift+W ►
	Đ	Сору	Ctrl+C
	Ð	Copy Qualified Name	
	Ē	Paste	Ctrl+V
	х	Delete	Delete
		Build Path	۲.
	2	Import	
	4	Export	
	Ŷ	Refresh	F5
		Properties	Alt+Enter
	-		

2. In the Import dialog box, select Existing Projects into Workspace.



Import	
Select Create new projects from an archive file or directory.	Ľ
Select an import source:	
type filter text	
<ul> <li>✓ General</li> <li>✓ Archive File</li> <li>✓ Breakpoints</li> <li>✓ Existing Projects into Workspace</li> <li>✓ File System</li> <li>✓ Preferences</li> <li>✓ CVS</li> <li>✓ EJB</li> <li>✓ J2EE</li> <li>✓ Mylyn</li> <li>✓ Plug-in Development</li> <li>✓ Team</li> <li>✓ Web</li> <li>✓ Web services</li> </ul>	
(?) < Back Next > Finish	Cancel

- 3. Click Next.
- 4. In the Browse For Folder, select eclipseTestProject.

You can locate the eclipseTestproject at:

{Collection Environment Directory}\SDKCommon\eclipseTestProject

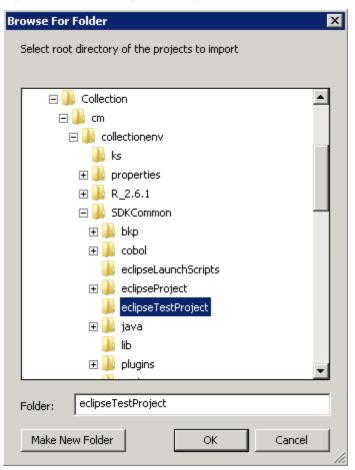


Figure 2–39 Select eclipseTestProject

5. In the Import Projects dialog box, click Finish.

## Figure 2–40 Import Projects

Import				
Import Projects         Select a directory to search for existing Eclipse projects.				
<ul> <li>Select root directory:</li> <li>Select archive file:</li> </ul>	D:\Collection\cm\collectionenv\SDKCommon\	Browse Browse		
Projects:				
Copy projects into wo	orkspace	Select All Deselect All Refresh		
0	< Back Next > Finish	Cancel		

## 2.4.11 Troubleshooting JUnit

During execution of JUnit, following possible error scenarios are encountered:

Out of memory issue

To avoid these scenarios, the following settings need to be performed:

## **Out of Memory Issue**

To address the Out of memory issue, set the VM arguments to **-Xms512m -Xmx1024m - XX:PermSize=256M**.

Run Create, manage, and run configurations				
Create a configuration that will launch	a JUnit test.			
type filter text	Name: SampleTest	ments 🛛 🍫 Classpath 📄 JRE 💱 Source 🦝 Environment 🔲 Common		
	Working director	y: [\${workspace_loc:cmTest} Workspace File System Variables Apply Revert		
0		Run Close		

## Figure 2–41 VM Arguments

### Note

For running JUnit, ensure that you are using 64 bit JDK.