Oracle® Banking Platform Collections and Recovery

Customization Guide Release 2.9.0.0.0 F23392-01

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Oracle Banking Platform Collections and Recovery Customization Guide, Release 2.9.0.0.0

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Preface

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

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 and Oracle Banking Recovery.

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.

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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 1 Customizing Collections and Recovery

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

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.

7 | Oracle Banking Platform Collections and Recovery Customization Guide

1 Customizing Collections and Recovery

This chapter describes the steps to be performed to configure Oracle Banking Collections and Oracle Banking Recovery.

1.1 Prerequisites

Following are the prerequisites:

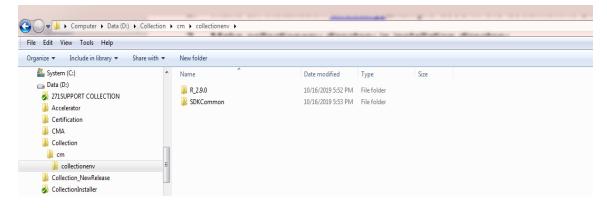
- Jdk1.8 178 bit is installed
- Weblogic Server 12.2.1.3.0 is installed

1.2 Customizing Collections and Recovery

To customize Oracle Banking Collections and Oracle Banking Recovery:

- 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_2.9.0** folders to <installationDirectory>/collectionenv.

Figure 1–1 Copy SDKCommon and R_2.9.0



6. 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. hibernate-jpa-2.0-api-1.0.1.Final.jar
- iv. jboss-transaction-api_1.1_spec-1.0.0.Final.jar
- v. dom4j-1.6.1.jar
- c. Copy below jar from extracted hibernate-release-4.1.0/ lib/optional/ehcache folder to create hibernate path.
 - i. hibernate-ehcache-4.1.0.Final.jar

Figure 1–2 Hibernate folder

/scratch/ofssobp/Hibernate_tmp	
Name	
 jboss-transaction-api_1.1_spec-1.0.0.Final.jar hibernate-jpa-2.0-api-1.0.1.Final.jar hibernate-ehcache-4.1.0.Final.jar hibernate-core-4.1.0.Final.jar hibernate-commons-annotations-4.0.1.Final.jar dom4j-1.6.1.jar 	

1.3 Using the Oracle Banking Collections and Oracle Banking Recovery Installer

To use Installer for customization setup:

- 1. Download the Installer from the following location: http://edelivery.oracle.com/
- 2. Copy the Oracle Banking Collections and Oracle Banking Recovery 2.9.0.0.0 installation package, Collection_V[Build_Number].zip, which you have downloaded from the edelivery to a TEMP location.
- 3. Extract the zip.
- 4. Uncompress the Collection_V[Build_Number].zip file using the following command:

cd <PATH>/TEMPDIR unzip Collection_V[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 1–3 TEMPDIR Content

Name	Date modified	Туре	Size
📑 data	2018-04-26 5:33 PM	File folder	
当 collectioninstaller.jar	2018-03-20 7:26 PM	Executable Jar File	121 KB
当 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
DEC_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 1–4 Config.properties

Config.properties - Notepad	-	×
File Edit Format View Help		
<pre>IS_DEV_ENV=true OBP_HOST_LIB=ob.host.app/ob.app.host.coll/APP-INF/lib OBP_THIRDPARTY_LIB=ob.host.app/ob.app.host.tp/APP-INF/lib IS_UI_ENABLED=Y</pre>		~
#TNTTTAL DETATLS		

- 6. Installer operates in two modes, go with either mode.
 - Silent mode
 - a. Update config.properties in the TEMPDIR directory, set:

OPERATING_SYSTEM=Windows IS_UI_ENABLED=N HOST_CONFIG=N UI_CONFIG=N BATCH_CONFIG=N CUSTOM_SUPPORT=Y THREADPOOL CONFIG=N

- b. Also, update the below sections in config.properties file.
 - DB CONFIGURATION
 - CUSTOMIZATION CONFIGURATION

Figure 1–5 Config.properties



- c. Ensure backward slashes (/) are used in path. (Eg : D:/Collection/cm)
- d. Run the executable jar (java -jar collectioninstaller.jar).

Figure 1–6 Silent Installation

Administrator: C
D:\Test\CMInstaller\OBEC_V270\OBEC_V270>java -jar collectionInstaller.jar Creating directory structure.
Creating directory structure successful.
Extracting OUAF libs
Extracting OUAF Successful
Copying Cutomization files libs.
log4j;WARN No appenders could be found for logger (com.splwg.shared.environ.ApplicationProperties). log4j;WARN Please initialize the log4j system properly. log4j;WARN See http://logging.apache.org/log4j/1.2/faq.html#noconfig for more info. ERROR: Could not load classpath property file 'spl.properties' Cleanup of extracted files.
U75597-01.zipCleanup of extracted files successful.
Installation successful!
D:\Test\CMInstaller\OBEC_U270\OBEC_U270>_

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

Figure 1–7 Collection and Recovery Installer: Initial Details

OB Collection Installer : Initial Details	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		
	lext	

- c. Select the Customization Support Required checkbox.
- d. Click Next.

OB Collection Installer : Weblo	gic Server Details	
ORACLE OB Collection Installer : Weblogic Server Details		
Web Server Home	D:\server\wls122130	
DB lp 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	

Figure 1–8 Collection and Recovery Installer: Weblogic Server Details

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

Web Server Home: Path to the Weblogic home directory (Example : D:\server\wls122130)

Username/Password: Credentials of the DB

f. Click Generate.

OB Collection Installer : Confirm insta ORACLE Genrerate Batch Configuration : fals	OB Collection Installer : Confirm installation details	
Customization Support Required : t Theadpool Configuration : false Customization Support (Webserver Home = D:\server\w1212 ThreadPool Name=null Connction Pooled = No Db IP Address=1 Db Port=1521 SID= UserName=Good ID Logs Directory= D:\Collection\cm\log	Configuration	
	Previous Generate	Y

g. Click Done.

DRACLE	OB Collection Installer : Installing		
6 8 0 0	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		

Figure 1–10 Collection and Recovery Installer: Installation Complete

1.4 Downloading and Configuring Software and Jar Files

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

1.4.1 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_2.9.0 folder.
- 3. Copy Plugins from SDKCommon to Eclipse plugin folder.

From location : \SDKCommon\plugins To location : \R_2.9.0\Eclipse\plugins

Figure 1–11 Copy Eclipse 4.4

🕽 🔵 🗸 🕨 Computer 🕨 Data (D	:) 🕨 Media_pack	▶ R2.9.0 ▶ Customizatio	on ▶ CollectionSDK ▶ R_2.9.0 ▶			
File Edit View Tools Help						
Organize 👻 Include in library 👻	Share with 🔻	New folder				
icollection	^	Name	Date modified	Туре	Size	
landing recovery		퉬 eclipse	10/17/2019 11:36	File folder		
 Documentation 		application.xml	11/2/2016 6:11 PM	XML Document		1 KB
svn		🚳 startWLS.cmd	4/11/2017 7:56 PM	Windows Comma	1	1 KB
🔒 Adapter						
📕 Bankruptcy						
📗 bckup						
Blueprint						
CollectionRefreshScripts DataCreation						
DataCreation						
J GDPR	_					
🌡 Important_Paths	=					
🍌 Masking						
Merge_Issues						

1.4.2 Downloading Required Jars

- 1. 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

1.4.3 Configuring eclipse Project

To select and configure eclipse Project:

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

Figure 1–12 Create Workspace Folder

ame *	Date modified	Туре	Size	
collenctionenv	4/3/2017 3:22 PM	File folder		
workspace	4/6/2017 10:40 AM	File folder		
workspace	4/6/2017 10:40 AM	File folder		

- Navigate to the following location: D:\Collection\cm\collenctionenv\R_2.9.0\eclipse
- 3. Double-click Eclipse.exe.

🖉 🧯 🖡 Computer 🕨 Data (D:) 🕨 M	edia_pack + R2.9.0 + Customization + Co	bilectionSDK ► K_2.9.0 ► eclipse ►	-			_
Edit View Tools Help						
ganize 🔻 Include in library 🔻 Share	with 🔻 New folder					
🌛 collection	^ Name	Date modified	Туре	Size		
🌛 recovery	Configuration	10/17/2019 11:38	File folder			
🖉 🚺 taskflows	dropins	9/19/2013 5:07 AM	File folder			
🛛 🌛 collection	features	10/17/2019 11:38				
🌛 landing	p2	10/17/2019 11:38				
👌 recovery	plugins	10/17/2019 11:39				
Documentation	readme	10/17/2019 11:39	File folder			
🛛 🎍 .svn	.eclipseproduct	9/3/2018 11:10 AM	ECLIPSEPRODUCT	1 KB		
🛛 🎍 Adapter	artifacts.xml	9/3/2018 11:10 AM	XML Document	115 KB		
🛛 퉬 Bankruptcy	eclipse.exe	9/3/2018 11:10 AM	Application	305 KB		
🛛 🌡 bckup	eclipse.ini	9/3/2018 11:10 AM	Configuration sett	1 KB		
🛯 🚺 Blueprint	eclipsec.exe	9/3/2018 11:10 AM	Application	18 KB		
CollectionRefreshScripts	≡ i epl-v10.html	9/3/2018 11:10 AM	Firefox HTML Doc	17 KB		
DataCreation	notice.html	9/3/2018 11:10 AM	Firefox HTML Doc	10 KB		
ဲ 🌛 Day0		5/5/2020 22220 / 111	The overlap	2010		
🛛 🌛 GDPR						
🕌 Important_Paths						
퉬 Masking						
퉬 Merge_Issues						
DIET						

Figure 1–13 Double-click Eclipse.exe

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

Figure 1–14 Workspace Launcher

Eclipse Launcher		
Select a directory as workspace		
Eclipse uses the workspace directory to store its preferences a	and 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 1–15 Project Explorer - Import

	New	۶.		
	Show In	Alt+Shift+W ►		
Đ	Сору	Ctrl+C		
Ð	Copy Qualified Name			
Ê	Paste	Ctrl+V		
х	Delete	Delete		
	Build Path	•		
	Import	•	•	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 1–16 Select Existing	Projects i	into Workspace
-----------------------------	------------	----------------

Import	
Select	
Create new projects from an archive file or directory.	
Select an import source:	
type filter text	
🔁 General	
👰 Archive File	
Breakpoints	
 Existing Projects into Workspace File System 	
Preferences	
CVS	
🔁 EJB	
🔁 J2EE	
🗁 Mylyn	
🗁 Plug-in Development	
🗁 Team	
🗁 Web	
🗁 Web services	
? < 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 d		earch for existing Eclipse projects.	
	oot directory	c	Browse
~			Browse
Projects	Browse For F	older	×
	Select root	directory of the projects to import	
	Þ 🌛	cobol_runtime	·
		CodeGenerationTool	
		Collection	
	4	📙 cm	=
	1	collectionenv	
		properties runtime	
Cop		SDKCommon	
Cop.		> locobol	
		eclipseLaunchScripts	
		eclipseProject	
		⊳ 🛺 java	
?			· · ·
_	Folder:	eclipseProject	
	Make Ne	u Foldor	OK Cancel

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

Jmport		×
Import Projects Select a directory to searc	h for existing Eclipse projects.	
 Select root directory: Select archive file: Projects: 	D:\Collection\cm\collectionenv\SDKCommon\	Browse Browse
Copy projects into we	prkspace	Select All Deselect All Refresh
?	< Back Next > Finish	Cancel

Figure 1–18 Import Projects - Finish

1.4.4 Creating Linked Resource

To create linked resource:

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



Preferences	Linked Res	ources	
General Appearance Capabilities Compare/Patch Content Types Error Reporting Globalization Keys Network Connections Notifications	Prompt Prog and drop Prompt Prompt Path variables s	items on a folder or project Copy C Link C Link and cr items on a virtual folder Link C Link and create virtua	al folders 1. The locations of linked resource:
- Perspectives - Search	Defined path va	riables: Value	New
Security Service Policies			Editi
Startup and Shutdown Tracing UI Responsiveness Mo User Storage Service Web Browser			Remove
- Workspace - Build Order - Linked Resources - Local History			
Cloud Foundry			

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

Figure 1–20 New Variable asBase

🔘 New V	'ariable		_ 🗆 🗙
	a New Path Variable must be absolute.		
Name: Location:	asBase	File	Folder
?		OK	Cancel

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

📃 Desk	top	_
🕀 詞 Lib	raries	
🕀 😹 Ra	kesh R. Nair	
🖃 🜉 OF	55312940	
🕀 🏭 I	Local Disk (C:)	
	New Volume (D:)	
Ξ 📕	Collection	
	📙 cm	
Ξ	E 🍌 collenctionenv	_
Ξ	🗄 퉲 workspace	
🕀 📕	Collection_old	
±	CollectionSDK	
÷	com.ofss.fc.ui.common	
±	Db	
	earlycollections	
Ŧ ル	eclipse	
±	GEN	-

Figure 1–21 Select Folder

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

Figure 1–22 New Variable Name and Location

🔅 New V	ariable		
17 () () () () () () () () () (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.

Figure 1–23 Linked Resources - Path Variables

pe filter text	Linked Reso	urces	↔ ↔ ↔
General Appearance Capabilities Compare/Patch Content Types Editors Editors Error Reporting Globalization Keys Network Connections Notifications	Prompt Prompt Prog Prompt Prompt Pt	esources ems on a folder or project Copy C Link C Link and create virtual fol ems on a virtual folder ink C Link and create virtual folders cify locations in the file system. The locations elative to these path variables.	
- Perspectives - Search	Defined path varia	Value	New
Security Service Policies	er asBase	D:\Collection\cm\collenctionenv	Edit
 Startup and Shutdown Tracing 			Remove

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

1.4.5 Creating weblogic domain

This section provides information on creating a new weblogic domain.

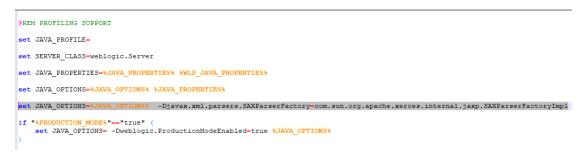
- 1. Open the weblogic installation directory.
- 2. Execute wlstpy.cmd.
- 3. New domain <weblogic_root>/user_projects/domains/cm_domain will be generated.
- 4. Remove jar cglib.cglib-nodep.jar from the location <weblogic_root>/wlserver/modules.
- 5. Edit <weblogic_root>/user_projects/domains/cm_domain/setDomainEnv.cmd
 - a. Search for @REM IF USER_MEM_ARGS
 - b. Add below line next to it
- Set USER_MEM_ARGS=-Xms128m -Xmx3072m %MEM_DEV_ARGS% %MEM_MAX_PERM_ SIZE%

Figure 1–24 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
- Set JAVA_OPTIONS=%JAVA_OPTIONS% -Djavax.xml.parsers.SAXParserFactory=com.sun.org.apache.xerces.internal.jaxp.SAXParserFactory Impl





- 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.

Figure 1–26 JTA Timeout

Settings fo	r cm_o	lomain							
Configura	tion	Monitoring	Control	Security	Web Service S	ecurity	ZDT Control	Notes	
General	JTA	Concurrency	JPA	EJBs V	Veb Applications	Logging	Log Filters	Batch	
Save									
Use this j	page to	define the Jav	/a Transac	tion API (J	TA) configuration	of this We	bLogic Server	domain.	
Timeout !	Timeout Seconds: 300								
Abandon	Abandon Timeout Seconds: 86400							86400	
Before Co	Before Completion Iteration Limit: 10							10	
Max Tran	Max Transactions: 10000						10000		
Max Unique Name Statistics: 1000							1000		
Checkpoi	int Inte	erval Second	s:						300
Write	recove	erv logs whe	n detern	iners con	figured				

1.4.6 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 1–27 deploy.xml

林 - 6) - Q Q ; 👸 - 67 - ; 😕 😂 🛷 - ; 🐼 🥖 📴 🏢 🔞 🗐 🖉 🎍 - 🌾 - 🖘 -	
-		
46	<target name="modifyCollectionWeb"></target>	
47	<delete dir="\$asBasel/R 2.7/CollectionWeb"></delete>	
48	<unzip dest="\$fasBase}/R 2.7/CollectionWeb" src="\$fasBase}/R 2.7/CollectionWeb.ear"></unzip>	
49	<unzip dest="\$fasBase/12_27/CollectionWeb/collectionweb" src="\$fasBase/12_27_CollectionWeb/collectionweb.war"></unzip>	
50	<pre><mkir """"""""""""""""""""""""""""""""""<="" dir="" td=""><td></td></mkir></pre>	
510	<copy overwrite="true" todir="\$1asBase1/R 2.7/CollectionWeb/collectionweb/WEB-INF/classes/"></copy>	
52	<fileset file="\$\\$asBasel/properties/web/.p4janore"></fileset>	
53	<fileset file="\$asBase{/properties/web/log4i.properties"></fileset>	
54	<fileset file="\$asBase//properties/web/spl.properties"></fileset>	
55		
56		
57	<delete dir="\$1asBase}/R 2.7/CollectionWeb/collectionweb.war"></delete>	
580	<war basedir="\$ asBase}/R_2.7/CollectionWeb/collectionweb" destfile="\$ asBase}/R_2.7/CollectionWeb/collectionweb.war"></war>	
590	<manifest></manifest>	
60	<attribute name="Manifest-Version" value="1.0"></attribute>	
61	<attribute name="Created-By" value="1.8.0 101 (Oracle Corporation)"></attribute>	
62		
63		
64	<delete dir="\$[asBase]/R_2.7/CollectionWeb/collectionweb"></delete>	
65	<delete dir="\${asBase}/R_2.7/CollectionWeb.ear"></delete>	
66	<ear basedir="\$fasBase}/R_2.7/CollectionWeb" destfile="\$fasBase}/R_2.7/CollectionWeb.ear" update="true"></ear>	
67)	<manifest></manifest>	
68	<attribute name="Manifest-Version" value="1.0"></attribute>	
69	<attribute name="Created-By" value="1.8.0_101-b13 (Oracle Corporation)"></attribute>	
70		
71		
72	<delete dir="\$[asBase]/R_2.7/CollectionWeb"></delete>	
73		
74		
75		
76	<target name="updateBuildServiceEar"></target>	
77	<delete dir="\$[asBase]/R_2.7/SPLService"></delete>	
78	<unzip dest="\${asBase}/R_2.7/SPLService" src="\${asBase}/R_2.7/SPLService.ear"></unzip>	
79)	<copy overwrite="true" todir="\${asBase}/R_2.7/SPLService/"></copy>	
80	<fileset file="\$[jarDir]/\$[serviceBeanJar.file]"></fileset>	
81		
82 -	<ear basedir="\$fasBase}/R_2.7/SPLService" destfile="\$fasBase}/R_2.7/SPLService.ear" update="true"></ear>	
83.	<manifest></manifest>	
4		

1.4.7 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 1–28 Open External Tools Dialog

File Edit Navigate Search	Project Run Window Help	
📬 • 🗐 🐚 🛊 • 🔘	- 🌯 - 🔯 - 🎯 - 🎒 😂	🛷 - 😽 🤳 🗄
<mark>월</mark> • 월 • ♥ ↔ - <	(no launch history)	
	Run As	•
Project Explorer 🔀	External Tools Configurations	
T	Organize Favorites	rsion="1.0

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

	External Tools Configurations	x
Create, manage, and run configurations Run an Ant build file.		
Image: Second Secon	Name: cmDeploy Main	Add Property Edit Property Remove
Filter matched 12 of 12 items	Property files:	Add Files Add External Remove
	ßun	Close

Figure 1–29 External Tools - asBase

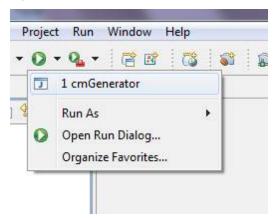
3. Click **Edit Property** and specify the path where you have installed collection environment.

Figure 1–30 asBase - Edit User Property

Name:	asBase		
Value:	D:/Collection/cm/c	ollectionenv	
			Variables
		ОК	Cancel

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

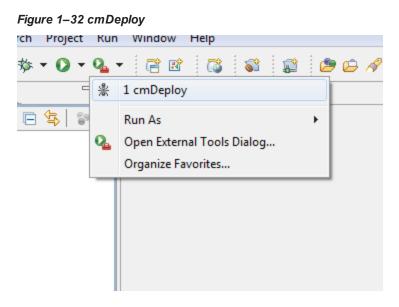
Figure 1–31 Artifact Generator



1.4.8 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

1.4.9 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_2.9.0

Figure 1–33 Deploy SPLService.ear

ORACLE' WebLogic Server Ad	dministration Console 12c							
Change Center	🔒 Home Log Out Preferences 🔤 Re	cord Help		Welcome,				
View changes and restarts	Hone >Summary of Servers >Summary of Deployments Hessages							
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	8 You must select an application befor	e continuing.						
Domain Structure	Install Application Assistant							
DefaultDomain ^	Back Next Finish Cancel							
Ponen Partitions Brownent Serves Brokuters Coherene Custers Resource Groups Resource Group Templates Wubit Hosts What Hosts		application root directory, archive file, exploi d below. If you cannot find your deployment	ed archive directory, or application module descriptor that you lee, Upload your file(s) and/or confirm that your application con mizzation(CollectionSDK/R_2.9.0/SPLService.ear	vant to install. You can also enter the path of the application directory or file in the Path field. Jains the required deployment descriptors.				
Work Managers	Current Location:	1	9.0 \Customization \CollectionSDK \R_2.9.0					
Hourderfit reposes Resource Monadement Hour do L Start and stop a deployed enterprise application Crofigure an enterprise application Crofigure an enterprise application	clipse ClictionWeb.ear Clicti							

- 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_2.9.0/

Figure 1–34 Deploy CollectionWeb

	dministration Console 12c						
Change Center	🔒 Home Log Out Preferences 🔤 Reco	rd Help	Welcome, v				
View changes and restarts	Home »Summary of Servers »Summary of Deployments Messages						
Configuration editing is enabled. Future changes will automatically be activated as you modify. add or delete items in this domain.	You must select an application before continuing.						
	Install Application Assistant						
Domain Structure DefaultDomain	Back Next Finish Cancel						
B -Environment Servers Coherence Clusters Coherence Clusters Resource Groups		epare for deployment spication root directory, archive file, exploded archive directory, or application module descriptor that you want to install. Yn ellow. If you cannot find your deployment files, Upload your file(s) and/or confirm that your application contains the require					
Resource Group Templates	Path:	D:\Media_pack\R2.9.0\Customization\CollectionSDK\R_2.9.0\CollectionWeb.ear					
·Virtual Hosts Virtual Targets	Recently Used Paths:	D: [JIReleasedArea/pb.ui. web D: [JIReleasedArea/pb.ui.dient					
Work Managers Concurrent Templates	Current Location:	127.0.0.1 \D: \Media_pack \R2.9.0 \Customization \CollectionSDK \R_2.9.0					
Resource Management	edipse						
How do I 🛛	 CollectionWeb.ear CollectionWeb.ear 						
 Start and stop a deployed enterprise application 	C C Ohelp.ear						
Configure an enterprise application	Image: State						

- 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_2.9.0/

Figure 1–35 Deploy ohelp.ear

ORACLE WebLogic Server Ad	Iministration Console 12c							
Change Center	🟦 Hame Log Out Preferences 🐼 Record Heip 📃 🔍 Welcome, w							
View changes and restarts	Hone SSUmmary of Servers SSummary of Deployments							
Configuration editing is enabled. Future changes will automatically be activated as you modify, add or delete items in this domain.	Messages ØYou must select an application befor	e continuing.						
	Install Application Assistant							
Domain Structure								
DefaultDomain •	Eack Next Finish Cancel							
Domain Partitions Denorment	Locate deployment to install and	prepare for deployment						
Servers EClusters E	Select the fle path that represents the application root directory, and the fle, excluded archive directory, or application module descriptor that you want to install, you can also enter the path of the application directory or file in the Fath field.							
Coherence Clusters Resource Groups	Note: Crity valid file paths are displayed below. If you cannot find your dealoyment files, Ubback your file(s) and/or confirm that your application contains the required deployment descriptors.							
Resource Group Templates	Path:	D:\Media_pack\R2.9.0	Dustomization\CollectionSDK\R_2.9.0\ohelp.ear					
Vrtual Hosts Vrtual Targets	Recently Used Paths:	D:\UIReleasedArea\ob.ui.v D:\UIReleasedArea\ob.ui.o						
Work Managers Concurrent Templates	Current Location:	127.0.0.1 \D: \Media_pag	R2.9.0 \Customization \CollectionSDK \R_2.9.0					
Resource Management	edpse							
How do I E	CollectionWeb.ear							
Start and stop a deployed enterprise application	In the second							
Configure an enterprise application	Back Next Fnish Cancel							
Create a deployment plan	· · ·							

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:
- 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 1–36 Creating new User

Create a New User	Create a New User				
OK					
User Properties					
The following properties will be used	d to identify your new User.				
* Indicates required fields					
What would you like to name your ne	w User?				
* Name:	sysuser				
How would you like to describe the n	ew User?				
Description:	sysuser desc				
Please choose a provider for the user					
Provider:	DefaultAuthenticator V				
The password is associated with the l	login name for the new User.				
* Password:					
* Confirm Password:	••••••				
OK Cancel					

- 9. Click OK
- 10. Click on sysuser -> Groups

11. Select Administrator and cisuser and move to right as shown below:

Figure 1–37 Setting for new User

Settings for sysuser				
General	Passwords	Attributes	Groups	
Save				
Use this	page to config	gure group me	embership	for this user.
Parent G Availabl	-		C	hosen:
Available:		COPE	1 6	Administrators
Adminchannelusers		5015	8	cisusers
CrossDomainConnectors Deployers		>>>		
Monitors			3	
Operators		00		
Ora	cleSystemGr	oup	~~	
Save				

12. Click Save

Step 6 Open Admin Screen:

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

1.4.10 Importing Test Project into Customization Setup

To import Test Project into customization setup:

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

Figure 1–38 Import

📕 Package Explor 🛛 🍃 Hierarchy J Unit 🗖 🗖						
	수 수 👰 📄 🗧 🍃 🎽					
🛛 🍃 c	⊳ 😂 cm					
		New				
		Show In	Alt+Shift+W ►			
	Đ	Сору	Ctrl+C			
	Ð	Copy Qualified Name				
	Ē	Paste	Ctrl+V			
	ж	Delete	Delete			
		Build Path	•			
	2	Import				
	4	Export				
	Ŷ	Refresh	F5			
		Properties	Alt+Enter			

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

Figure 1–39 Select Existing Projects Into Workspace

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

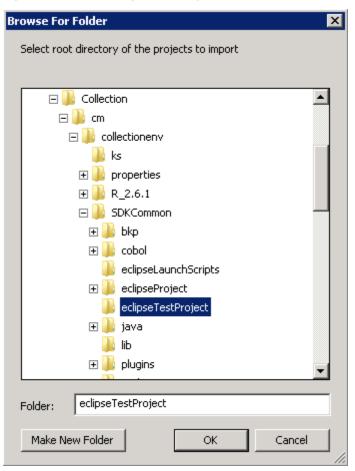


Figure 1–40 Select eclipseTestProject

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

Figure 1–41 Import Projects

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

1.4.11 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		X
Create, manage, and run config Create a configuration that will launch		
Image: Second Secon	Name: SampleTest	nents 💊 Classpath 🛋 JRE 🤯 Source 🖾 Environment 🔲 Common
Run on Server J ¹⁰ Task Context Plug-in Test J ¹¹ Task Context Test (IIII) Filter matched 17 of 17 items	● Working director	y: [\${workspace_loc:cmTest} [] [] [] [] [] [] [] [] [] []
0		Run Close

Figure 1–42 VM Arguments

Note

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