Deploying Oracle FLEXCUBE Investor Servicing Application on WebSphere Oracle FLEXCUBE Investor Servicing Release 14.6.0.0.0 [May] [2022]





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1. Deploying Oracle FLEXCUBE Investor Servicing on WebSphere

1.1 Introduction

This document explains the steps to deploy the Oracle FLEXCUBE IS application on IBM WebSphere application server.

1.2 **Deploying Application**

1.2.1 FCIS Application Deployment

To deploy Oracle FLEXCUBE IS application on WebSphere application server, you need to follow the steps given below:

1. Open the Administrative Console of WebSphere server:

Open an internet browser and type the WebSphere Admin Console URL: <u>http://{Host}:{Port}/ibm/console</u>.

Eg: https://10.10.10.10/ibm/console

In the above example, 10.10.10.10 is the machine IP address on which WebSphere is running.

The following screen is displayed:

WebSphere, softwa	are	WebSphere Integrated Solutions Console	
IBM.	Rights Reserved. registered tradem many jurisdictions trademarks of IB	a - Property of IBM (c) Copyright IBM Corp. 1997, 2011 All IBM, the IBM logo, ibm.com and WebSphere are trademarks or narks of International Business Machines Corp., registered in swoldwide. Other product and service names might be worldwide. Other companies, a current list of IBM trademarks is Web at <u>Copyright and trademarks information</u> .	

- 2. Enter the user name and password and click 'Log In' button to log in to the application server.
- 3. WebSphere Home Page will get launched.
- 4. Expand Applications and Click 'New Application' option.



The following screen is displayed.

WebSphere. software		Welcome saravanan		IBM.
View: All tasks 🗸	Cell=ofss220239Node01Cell, Profile=FPCFL			Close page
Velcome	New Application			E
Guided Activities	This page provides links to create new application:	s of different types		
+ Servers	Install a New Application	s of difference types.		
Applications New Application Application Types Global deployment settings	New Enterprise Application			
Services Resources	New Business Level Application			
Environment	New Asset			
Monitoring and Tuning				
± UDDI				
•				

5. Click 'New Enterprise Application' option. The following screen is displayed:

WebSphere. software		Welcome infra	Help Logout IB
View: All tasks •	Enterprise Applications		Close pa
Welcome	Preparing for the application installation Specify the EAR, WAR, JAR, or SAR module to upload and install.	141	Kelp Field help Local file system path
E Servers Applications New Application Application Application SubAphree enterprise applications BuildesSurveyal applications Collable dealoyment settings E Services	Path to the new application Coal file system Full path Co222015I/CISApp.ed Bowse Remote file system Full path Browse		Cool ner system pan Page beig More information about this gates
E Resources	Next Cancel		
• Security			
Environment			
System administration			
1 Users and Groups			
Monitoring and Tuning			
Troubleshooting			
Service integration			
1000			

6. Browse the application EAR file and click 'Next'.

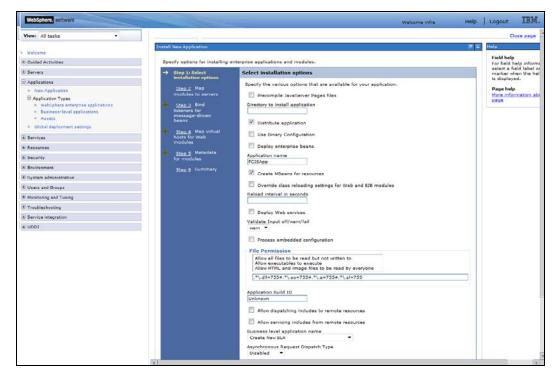


The following screen is displayed.

WebSphere, software	Welcome saravanan Help Logout	IBM.
View: All tasks 🔻	Enterprise Applications	Close page
Welcome	Preparing for the application installation	2 =
⊕ Guided Activities ■	How do you want to install the application?	
Applications	Fast Path - Prompt only when additional information is required.	
New Application	Detailed - Show all installation options and parameters.	
 Application Types Global deployment settings 		
Global deployment settings Services	Choose to generate default bindings and mappings	
Resources	Previous Next Cancel	
Security		
± Environment		
∃ Users and Groups		
Monitoring and Tuning		
Troubleshooting ■		
E Service integration		
1 UDDI		
4		



7. Click 'Next'. The following screen is displayed.



- 8. Enter the Application Name. This should be the application name mentioned as part of EAR building.
- 9. Click 'Next'.





10. Check all the options. Click 'Next'. The following screen is displayed. Specify the details as shown:

During property file creation, if insulation adapter is applicable, then the following screen will be displayed:

WebSphere. software					Welcome infra	Help Logout
View: All tasks	-					2
= Welcome ng ent	erprise ap	plications and modu	les.			
Guided Activities Guided Activities	Bind li	steners for messa	ge-driven beans			
± Servers	_		-			
Applications New Application	name. name	When a message-d and authentication a	lriven enterprise bean is bound ilias.	or module must be bound to an activation specificati	to a listener port name or to on JNDI name you can also s	an activation specification JNDI pecify the destination JNDI
Application Types	⊕ Ap	ply Multiple Mapping	s			
 WebSphere enterprise applications Business-level applications 	C	0				
= Assets	Select	Module	Bean	URI	Messaging type	Listener Bindings
Global deployment settings Services		FCJScheduler.jar	EMSInMDB	FCJScheduler.jar,META- INF/ejb-jar.xml	javax.jms.MessageListener	Listener port Name EmsIn Listener
Resources Security						Activation Specification Target Resource JNDI
Environment						Name
Users and Groups						Destination JNDI name
Monitoring and Tuning						
Troubleshooting						ActivationSpec authentication alias
Service integration						
UDDI						
		FcisMDBAdapter.jar	CIFCreationMDBListenerBean	FeishOBAdapter, jar, META- INF/ajb-jar, xml	javax.jms.MessageListener	Listener port Name CIFCreationMDBListener Crticution Specification Target Resource JNDI Name Destination JNDI name ActivationSpec authentication alias
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If insulation adapter is not applicable, then the following screen will be displayed:

WebSphere. software						Welcome in	nfra Help Log	out IBM		
View: All tasks 👻								Close pa		
Welcome	Install New Application							7 -		
(±) Guided Activities	Specify options for install	ing enterp	orise applications	and module	s.					
(Servers	Step 1 Select	Bind li	steners for mes	sage-driv	en beans					
Applications	installation options				and a formation of the		a second a second second second			
New Application Application Types WebSphere enterprise applications Business-level applications Assets	<u>Step 2</u> Map modules to servers → Step 3: Bind listeners for	specifi specify Ap	cation JNDI name the destination J ply Multiple Mappi	When a me NDI name a			istener port name or to an ac on specification JNDI name yo			
Assets Global deployment settings	message-driven	D	0 0							
	beans	Select	Module	Bean	URI	Messaging type	Listener Bindings			
Services	Step 4 Map virtual	V	FCJScheduler.jar	EMSInMDB	FCJScheduler.jar,META- INF/ejb-jar.xml	javax.jms.MessageListener	Listener port			
• Resources	hosts for Web modules						 Listener port Name 			
Security							EMSIn_listener			
Environment	<u>Step 5</u> Metadata for modules						O Activation Specification	-		
System administration							Target Resource JNDI N	lame		
★ Users and Groups	Step 6 Summary									
Monitoring and Tuning							Destination JNDI name	1		
Troubleshooting							ActivationSpec authenti	cation		
E Service Integration							alias			
€ UDDI										



11. Click 'Next'. Following screen is displayed

View: All tasks •				Close pa
Welcome	Install New Application		1 R 1	ttelp.
1 Guided Activities	Specify options for installing	g enterprise applications and modules.		Field help For field help information.
	Step 1. Select stallston options Rep 1. Select installston options Rep 2. Mon modules to servers Step 1. Bind Internet for based intervent Step 1. Bind Intervent Step 1. Bind Step 1. Bind Step 1. Bind Rep 2. Summary Rep 2. Summary Previous Rest Can	Hap virtual hosts for Web module Specify the virtual host for the Web m Viscouries on the susception of the susception o	Sodules that are contained in your application, and virtual host or disperse them among	For field help information, safets i field help of the is displayed. Pope help help More information about the ABUS

12. Click 'Next'.

The following screen is displayed.

Views All tasks 👻					Close pag
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Welcome	Specify options for installing	enterorize application	and modules		Field help
t Servers	Step 1 Select	Metadata for mos		- 17	For field help information, select a field label or list
Applications	installation options				marker when the help cursor is displayed.
 New Application Application Types WebSphere enterprise applications Builtings-level applications 	<u>3860 2</u> Map modules to servers <u>3860 3</u> Dind listeners for	module is complete persist annotation- metedata to avoid read. If the attribut	plete attribute defines whether the de a. Set the metadata-complete attribut based metadata with existing XML-ba- scanning of annotation-based metada- te remains "false", then the annotation the module is read and can impart pri- the module	e to "true" to merge and sed deployment descriptor ata each time the module is n-based metadata is	Page help More information about this DROM
# Assets	message-driven beans	0 0			
 Global deployment settings Services 	Step 4 Map virtual hosts for Web	Module	URI	metadata-complete	
i Resources	modules	FCJGeneralEJB.jar	FC3GeneralE38-jar,META-INF/ejb- jar.xml		
Schedulers Object pool managers	 Step 5: Hetadata for modules 	FC3SMS.jar	FCJSMS.jar.META-INF/ejb-jar.xml	8	
	Step 6 Summary	FCJBatch.jar	FCJBatch.jar,META-INF/ejb-jar.xml	8	
JDBC Resource Adapters		FCServiceEJ8.jar	FCServiceEJB.jar.META-INF/ejb- jar.xml		
Asynchronous beans Cache instances		FCJScheduler.jar	FCJScheduler.jar.META-INF/ejb- jar.xml	8	
E Mail B URL		FlexCubeCorporate	FCJNeeWeb.war,WEB-INF/web.aml		
Resource Environment	Previous Next Cance	1			
Security					
Environment					
System administration					
Users and Groups					
Monitoring and Tuning					
Troubleshooting					
Service integration					



Click next. The following screen is displayed:

View: All tasks *				Close pa
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Applications	installation options			is displayed.
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Application Types	modules to servers	Options	Values	More information about this
 WebSphere enterprise applications 	Step 3 Bind	Precompile JavaServer Pages files	No	2222
 Business-level applications 	listeners for message-driven	Directory to install application	2	Command Assistance View administrative acription
= Assets	beans	Distribute application	Yes	command for last action
 Global deployment settings 	Step 4 Map virtual	Use Binary Configuration	No	
* Services	hosts for Web	Deploy enterprise beans	No	
- Resources	modules	Application name	FCISApp	
Schedulers	Step 5 Metadata for modules	Create MBeans for resources	Yes	
 Object pool managers IMS 	-> Step 0: Summary	Override class reloading settings for Web and EJB modules	No	
B JDBC	-y stup of summary	Reload interval in seconds		
Resource Adapters		Deploy Web services	No	
B Asynchronous beans		Validate Input off/warn/fail	warn	
Cache instances		Process embedded configuration	No	
E Mail		File Permission	.*\.dll=755#.*\.so=755#.*\.a=755#.*\.sl=755	
IN URL		Application Build ID	Unknown	
B Resource Environment		Allow dispatching includes to remote resources	No	
i Security E Environment		Allow servicing includes from remote resources	No	
		Business level application name		
E System administration		Asynchronous Request Dispatch Type	Disabled	
E Users and Groups E Munitering and Tuning		Allow EIB reference targets to resolve automatically	No	
		Deploy client modules	No	
fi Troubleshooting		Client deployment mode	Isolated	
1 Service integration		Validate schema	No	
i uppt		Cell/Node/Server	Click here	
	Previous Finish Car	cel		

13. Click 'Finish'.

The following screen is displayed.

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To work with installed applications, click the "Manage Applications" link.	f Service Integration	
	To work with installed applications, click the "Manage Applications" link.	
Manage Applications		

14. Click 'Save'.



The following screen is displayed.

WebSphere, software		Welcome infra	Help Logout IBM.
View: All tasks 👻	Enterprise Applications		Close page
Welcome	Preparing for the application installation	7	Help =
Guided Activities	Specify the EAR, WAR, JAR, or SAR module to upload and install.		Field help
Servers			For field help information, select a field label or list
Applications	Path to the new application		marker when the help
New Application Application Types Weight and the applications Weight applications Asses Clobal deployment settings	Local file system Full path Toronse No file selected. Remote file system Full path		cursor is displayed. Page help More information about this page
E Services	Browse		
Resources			
(1) Security	Next Cancel		
Environment			
😟 System administration			
Users and Groups			
Monitoring and Tuning			
(i) Troubleshooting			
E Service integration			
100U			

You need to manually select 'Websphere Enterprise Applications' from the left menu. The following screen is displayed:

View: All tasks 👻	-	Application								7	Help			
l Welcome ∰ Guided Activities		rise Applica									Field help For field help information			
E Servers			nanage ins	stalled applica	ations. A sin	gle application ca	n be deployed on	to multiple	servers.		select a field label or list marker when the help			
- Applications	E Pref	Preferences												
New Application	Star	t Stop	Install	Uninstall	Update	Rollout Update	Remove File	Export	Export DDL	Export File	Page help			
Application Types WebSphere enterprise applications		1 🕆 🗐									More information about this page			
 Business-level applications Assets 	Select	Name 🗘				1	pplication Status	0			Command Assistance			
Global deployment settings	You ci	in administ	er the follo	owing resource	es:						View administrative			
t Services	10	DefaultAp	plication				•	scripting command for action						
+ Resources		FCI5123					•							
± Security		FCISApp				-	•							
± Environment	13	GWEJB					•							
E System administration		GWWebSe	mines				•							
E Users and Groups														
E Monitoring and Tuning		ivtApp												
Troubleshooting		miapp wa	5				•							
E Service integration	10	query					•							
UDDI	- Hardward	Total 8												



Select the application and click 'Start'. The application starts as shown below:

WebSphere, software					Welcome infr	a Help	Logout	IBM.		
View: All taska 🗸								lose page		
Welcome	Enterpris	se Applications					P = Help			
Guided Activities		🗟 Messages					Field	help ald help infor		
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= Applications								played.		
New Application Application Types WebSphare enterprise applications Busines-level applications Assets	Use I	rprise Applications this page to manage installed appli aferences nt Stop Install Uninstall	ications, A single application can	be deployed onto multiple Remove File Export	Servers.	Export File	Come Views	help information a nand Assista administrative and for last		
 Global deployment settings 	G	0 + 9								
B Services		Select Name 🔿 Application Status 🔘								
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B JMS ■ JDBC		ECISADO		•						
		GWUB		•						
El Cache instances		GWHTTP		÷						
E Mail	E	GWMDB		*						
Resource Environment	1	<u>GWWebServices</u>		*						
E Security		ixtApp		•						
# Environment		guerr		•						
ti System administration	Tota	al U								
t Users and Groups		teo be								

This completes the deployment of EAR (FCJNeoWeb.ear) on IBM WebSphere Application Server from the Administration Console.

1.3 Standalone Scheduler Configuration

If standalone scheduler is enabled then below configuration should be done

1. Login to websphere admin console. Expand 'Application > Application Types> WebSphere Enterprise Applications'. The following screen is displayed:

WebSphere. software		10							Welcome inf	na H	elp	Logout	IBM.	
View: All tasks 👻												d	ose page	
Welcame	Enterpria	a Applicat	iona								2	Help		
t) Guided Activities	10		🗃 Mes	ages								Field h	elp d help inform	
5 Servers	71		coll	Application Fi	CISApp on s- leed to be re	erver server1 and no freshed to show the	de ofss220075Nod current status.	e03 started	successfully. Th	14		select marke	a field label of when the he	
Applications			1 COM									is disp	layed.	
 New Application 	Enter	Enterprise Applications											Page help	
Application Types WebSphere enterprise applications Bestness-level applications		nis page t eferences	o manage	installed ap	oplications. A	single application c	in be deployed ont	to multiple	servers.			More information ab		
= Assets	Sta	t Stop	Install	Uninstall	Update	Rellout Update	Remove File	Export	Export DDL	Export File	1	View a	Ininistrative and for last as	
 Global deployment settings 	(15)	[Ph] (++1)	0											
E Services		00 1 1 1												
Resources	100.000 A	Name					Application Stat	us 🖸 -						
Schedulers		You can administer the following resources:												
Object pool managers JMS		Defaults	oplication	2			*							
■ JM5 ■ J08C	10	ECISADO	2				+							
It Resource Adapters	15	GWEJE					*							
Asynchronous beans	-	GWHTT					*							
E Cache instances	13		_				-							
it Mail Bi URL		GWMDB					*							
Resource Environment	8	GWWeb	Servises				*							
5 Security	0	IvtApp					*							
Environment		SURCY					+							
E System administration	Tota	8												
Users and Groups	100													



Click on the application 'FCISApp'. The following screen is displayed:

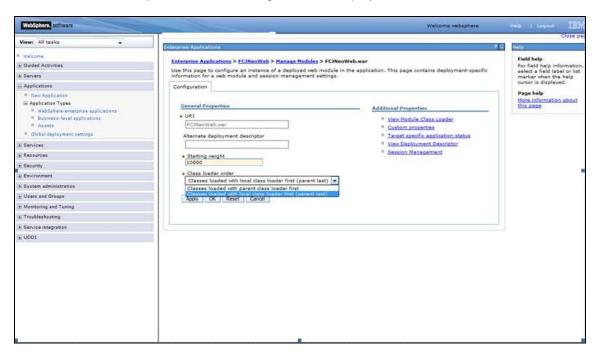
View: All tasks 🗸	Enterprise Applications	2.	Help
Welcome Guided Activities Servers Applications New Application	Enterprise Applications > FCJNeoWeb Use this page to configure an enterprise application. Cli- its modules. Configuration	ck the links to access pages for further configuring of the application or	Field help For field help informatio select a field label or liss marker when the help cursor is displayed. Page help
Application Types WebSphere enterprise applications WebSphere enterprise applications Business-level applications Assets Clobal deployment settings	General Properties • Name FC3NeoWeb	Modules Manage Modules Matage Modules Metadata for modules	More information about this page
± Services	Application reference validation	Display module build Ida	
Resources	Asave mariniga	Web Module Properties	
± Security	Detail Properties	Session management	
Environment	Target specific application status	Context Root For Web Modules	
± System administration	Startup behavior	25P and 35F options	
E Users and Groups	Application binaries	Virtual hosts	
± Monitoring and Tuning	Class loading and update detection Bequest dispatcher properties	Enterprise Java Bean Properties	
Troubleshooting	 JASPI provider 	Default messaging provider references	
E Service Integration	Custom properties	Application profiles	
1 UODI	View Deployment Descriptor	Environment entries for EJB modules	
	Last participant support extension	Bind EJB Business	
	References	# EJB JNDL names	
	EJB references	Client Module Properties	
	Shared library references	Client module deployment mode	
	Shared library relationships	Web Services Properties	
		 Service clients Service client policy sets and bindings 	
	Apply OK Reset Cancel	 pervice client policy sets and bindings 	
		Database Profiles	
		SQU profiles and pureQuery bind files	

Click on 'Manage Modules'

WebSphere, software	-	-				Welcome websphere	Help Lo
Views All tasks 🗸	Enterprise A						
Walcome		and the second second					
Guided Activities	100000000000000000000000000000000000000	and the second	NeoWeb > Manage Module	s			
Servers	Manage	Modules					
Applications						ant to install the modules that are g several application servers. Also	
New Application	as targe	its that serve as rout	ers for requests to this app	lication.	The plug-in configuratio	n file (plugin-cfg.xml) for each We	ab server is generated.
Application Types		s and servers)	at are routed through.				
 WebSphere enterprise applications Business-level applications 			7Node01Cell.node=ofss22	0137Nod	e01.server=server1	Apply	
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Security	Sele	t Module	URI	Туре	Server		
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System administration		Contraction of the second	FCJSMS.jar.META-	EIB	WebSpharescell=ofes2	20137Node01Cell.node=ofss2201	37Node01.setversserve
Users and Groups	13	EC25MS.Jar	INF/ejb-jar.xml	Module			
Monitoring and Tuning		FC2Batch.tar	FC3Batch.jar.META- INF/ejb-jar.xml	EIB Module	WebSphere:cell=ofss2	20137Node01Cell.node=ofss2201	37Node01,server=serve
Troubleshooting	1	ECServiceE28.tar	FCServiceEJ8.jar.META-	£38	WebSphere:cell=ofss2	20137Node01Cell.node=ofss2201	37Node01.server=serve
Service integration		Lange, Charles and	INF/ejb-jar.xml	Module			
10001		EC25cheduler.iar	INF/ejb-jar.cml	Module	websphereicen=orss2	2013/Hode01Cen,hode=01552201	3/nodeu1,server=serve
	10	ECORTLiar	FCJRTT.jar.META- INF/ejb-jar.xml	E28 Module	WebSphere:cell=ofss2	20137Node01Cell.node=ofss2201	37Node01.server=serve
		ElexCubeCorporate	CJNeoWeb.war.WEB- NF/web.xml	Web Module	WebSpherescell=ofss2	20137Node01Cell,node=ofss2201	37Node01,server=serve
		EC28TT.iar	FCJScheduler.jar.META- INF/ejb-jar.xml FCJRTT.jar.META- INF/ejb-jar.xml FCJNeoWeb.war.WEB-	EJB Module EJB Module Web	WebSphere:cell=ofss2		37Node01.serve



Click on 'FlexCubeCorporate'. The following screen is displayed:



Select "Classes loaded with local class loader first (parent last)" from the dropdown 'Class loader order'. Click 'Apply' button.

WebSphere. software	Welcome saravanan	Help Logout IBM.
View: All tasks 🔹	Enterorise Applications ? -	Close page
Welcome	energinal rippinational in	Field help
Guided Activities Guided Activities Second Secon	Messages	For field help information,
Servers	A Changes have been made to your local configuration. You can:	select a field label or list marker when the help
Applications	Save directly to the master configuration.	cursor is displayed.
New Application Application Types	<u>Review</u> changes before saving or discarding.	Page help More information about
WebSphere enterprise applications Business-level applications Assets	Δ The server may need to be restarted for these changes to take effect.	this page
Global deployment settings	Enterprise Applications > FCUBSApp2 > Manage Modules > FCJNeoWeb.war	
	Use this page to configure an instance of a deployed web module in the application. This page contains deployment-	-
Resources	specific information for a web module and session management settings.	
Security	Configuration	
Environment		
System administration	General Properties Additional Properties	
Users and Groups	+ URI View Module Class Loader	
Monitoring and Tuning	FCJNeoWeb.war Custom properties	
Troubleshooting	Alternate deployment descriptor	
Service integration	View Deployment Descriptor	
. UDDI	+ Starting weight Session Management	
	Class loader order Classes loaded with parent class loader first	
	Apply OK Reset Cancel	



Click 'Save' link and restart the server.

View: All tasks 👻						lose page
Welcome	Enterprise Ap	plications			12	Help
E Guided Activities	Enterprise	Applications > FCIS	App > Manage Modules			Fiel
Servers	Manage M	odules				For
Applications	Specify ta	argets such as applic	ation servers or clusters of	applicat	ion servers where you want to install the modules that are contained in your	curs
New Application Application Types WebSphere enterprise applications Business-level applications Assets Assets Global deployment settings	as target based on Clusters	s that serve as route the applications tha and servers: here:cell=ofss22007		lication.	arver or dispersed among several application servers. Also, specify the Web servers The plug-in configuration file (plugin-cfg.xml) for each Web server is generated. e03.server=server1	Pag Mor this
E Services		and been and been a	shove the Export the	15		
E Resources	00	1				
Security		1		Module		
Environment	Select	Module	URI	Туре	Server	
E System administration		FCJGeneralEJB.jar	FCJGeneralEJB.jar,META-	EJB	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1	
Users and Groups	-		INF/ejb-jar.xml	Module		
E Monitoring and Tuning		ECJSMS.iar	FCJSMS.jar,META* INF/ejb*jar.xml	E)B Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1	
E Troubleshooting	8	EC3Batch.jar	FCJBatch.jar,META- INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1	
E UDDI		FCServiceEJB.iar	FCServiceEJB.jar,META- INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1	
		FCJScheduler.iar	FCJScheduler.jar,META- INF/ejb-jar.xml	EJB Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1	
	23	FlexCubeCorporate	FCJNeoWeb.war,WEB- INF/web.xml	Web Module	WebSphere:cell=ofss220075Node03Cell,node=ofss220075Node03,server=server1	





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