Pharmacy Reengineering

Medication Order Check Healthcare Application (MOCHA) Server

Installation Guide



Version 2.0

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Revision History

Each time this manual is updated, the Title Page lists the new revised date and this page describes the changes. No Change Pages document is created for this manual. Replace any previous copy with this updated version.

Date	Revised Pages	Patch Number	Description of Revision
07/18/2014	All	PREM*2.0*1	Changed date to reflect real release date. REDACTED
06/16/2014	1, 2, 7	PREM*2.0*1	Minor text updates REDACTED
6/11/2014	13, 29	PREM*2.0*1	Replaced Figures 4-13 and 4-24; updated TOC & Table of Figures. REDACTED
6/3/2014	13, 15, 18	PREM*2.0*1	Fixed .ear file example to be current version REDACTED
5/30/2014	All	PREM*2.0*1	Added footnote describing relationship between FDB MedKnowledge Framework and FDB-DIF, updated text appropriately. Updated TOC. REDACTED
5/27/2014	All	PREM*2.0*1	Replaced "Mocha" with "MOCHA." REDACTED
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05/21/2014	Title Page, all, i- ii	PREM*2.0*1	Updated Title Page, updated footer, updated TOC. REDACTED
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01/26/2013	All	PREM*2.0*1	Technical Updates for MOCHA Server 2.0 REDACTED
10/26/2012	Title Page	PREM*1*1	Updated Title Page REDACTED

Date	Revised Pages	Patch Number	Description of Revision
08/27/2012	All	PREM*1*1	Removed FOD comments REDACTED
08/21/2012	All	PREM*1*1	Updated formatting, minor text edits, internal cross-references. REDACTED
03/01/2012	All	PREM*1*1	Initial draft of the Pharmacy Reengineering (PRE) Installation Plan for MOCHA SERVER build deployment on WebLogic Application Server. REDACTED

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1. Introduction

1.1. Overview of PRE MOCHA Server

MOCHA (Medication Order Check Healthcare Application) Server is a J2EE Application which is used by the VistA MOCHA Pharmacy Application to conduct enhanced order checks using First Databank's (FDB) MedKnowledge Framework¹. FDB is a drug data product that provides the latest identification and safety information on medications. Additionally, FDB provides the latest algorithms used to perform order checks. The order checks performed by MOCHA include:

- Enhanced Drug-Drug Interactions Order Checks –provides the clinician with more information by displaying a short description of the clinical effects of the drug interaction and providing an optional view of a detailed professional drug interaction monograph. It checks interactions between two or more drugs.
- Enhanced Duplicate Therapy Order Checks –uses FDB's Enhanced Therapeutic Classification (ETC) System, which allows checking for duplicated drug classifications between two or more drugs.
- **Drug Dose Order Check** checks if the prescribed dose for an ordered drug is within the proper dosing parameters based on the patient's age, weight, and body surface area. This includes both maximum single dose checking and daily dose range checking. General dosing information for a drug will be provided when the other dosing checks cannot be performed.

1.2. Scope of this Document

MOCHA server is comprised of four logical deployment components: Application Server, Database Server, Failover Server, and Legacy Interface.

The purpose of this Installation Guide is to provide instructions for the deployment of the PRE MOCHA Server application build on a WebLogic (application) Server and provide an overview of the Database Server component.

¹ At the time of development, this product was known as FDB Drug Information Framework (commonly abbreviated as FDB-DIF). The references to FDB-DIF in this manual are necessary due to previously completed code and instructions that could not be changed to match the new product name.

(This page included for two-sided copying.)

2. Installation Prerequisites

For successful deployment of the MOCHA Server software at a site, the following assumptions must be met:

- The Deployment Server is configured and running.
- WebLogic is configured to run with the Java[™] Standard Edition Development Kit, Version 1.6+.
- Access to the WebLogic console is by means of any valid administrative user name and password.
- The proper Caché database driver libraries for the chosen deployment environment are present on the class path for the respective Deployment Servers.
- Red Hat Enterprise Linux 5.2 operating system is properly installed.
- Domain Name Server (DNS) resolution is configured for the Deployment server for MOCHA Server.
- The installation instructions are followed in the order that the sections are presented within this Installation Guide.
- FDB-DIF v3.3 database is installed on the Database Server. Installation instructions are provided in FDB-DIF Installation/Migration guide. Contact the PRE Configuration Manager who should be identified on the project's Technical Services Project Repository (TSPR) site for a copy of the guide and installations/migration scripts.

(This page included for two-sided copying.)

3. Database Tier Overview

The FDB-DIF database used by MOCHA Server requires Caché to be successfully installed. The Caché database has specific installation procedures and files for each operating system. Red Hat Linux must be successfully installed prior to installing the Caché database. A successful installation of a Caché database instance is one in which the installation guide procedures are followed, resulting in an error-free installation.

The installation of the Caché database is described in the Caché Installation Guide, Version 2008.2, Section 4, Installing Caché on UNIX and Linux. The standard installation should be used to install the Caché database server software.

For successful deployment of the MOCHA Server 2.0 software at a site, the FDB-DIF v3.3 database must be installed. Installation instructions are provided in FDB-DIF Installation/Migration guide. Contact the PRE Configuration Manager who should be identified on the project's Technical Services Project Repository (TSPR) site for a copy of the guide and installations/migration scripts. (This page included for two-sided copying.)

4. WebLogic Application Server Configuration

The following instructions detail the steps required to perform an installation of a release for the MOCHA software when an existing release is already deployed. These steps assume a fresh installation has been completed, and there is an existing MOCHA Server Application up and running which will be replaced by the WebLogic Build.

This is a two-step process: first, remove the old release (build), and then deploy the new PRE MOCHA Server application build. The server must not be in-use while this operation is taking place.

4.1. Un-Deploy Old MOCHA Server Build

The following steps detail how to un-deploy the MOCHA Server build:

- 1. Open and log into the WebLogic console. This is located at: http://<Deployment Machine>:7001/console.
- 2. Within the Domain Structure panel in the left column of the WebLogic console, click the Deployments node. For reference, see Figure 4-1.



Figure 4-1: Domain Structure

3. Within the Change Center panel in the left column of the WebLogic console, click Lock & Edit. For reference, see Figure 4-2.

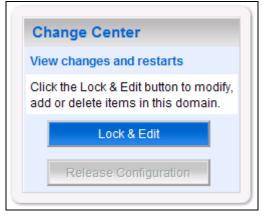


Figure 4-2: Change Center

4. WebLogic will now display the panel Summary of Deployments in the right column of the console, where all deployments for the WebLogic domain are listed. For reference, see Figure 4-3.

Summary of Deploy	yments			
Control Monitoring				
	lules can be started, stoppe	and stand-alone application modules that have been ed, updated (redeployed), or deleted from the domain t		
To install a new appli	cation or module for deploy	ment to targets in this domain, click the Install button.		
Customize this table				
Customize this table				
	Delete Start 🗸	Stop 🗸	Showing 1 to	1 of 1 Previous Next
Deployments Install Update	Delete Start 🗸	Stop v When work completes	Showing 1 to	
Deployments	Delete Start 🗸		Showing 1 to	1 of 1 Previous Next
Deployments Install Update	Delete Start 🗸	When work completes		
Deployments Install Update V Name 🗞	Delete Start -	When work completes Force Stop Now	rise Application	Deployment Order

Figure 4-3: Summary of Deployments – Stopping MOCHA

5. Select the previously deployed MOCHA (Server) deployment, click Stop, and then select Force Stop Now from the drop-down list box.

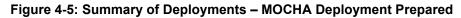
6. WebLogic will now display the panel Force Stop Application Assistant in the right column of the console for confirmation to start servicing requests. For reference, see Figure 4-4.

Force Stop Applica	ion Assistant	
Yes No		
Stop Deployments		
You have selected the fo MOCHA	llowing deployments to be immediately stopped. Press 'Yes' to continue, or 'No' to cancel.	
Yes No		

Figure 4-4: Force Stop Application Assistant

- 7. Click Yes in the Force Stop Application Assistant panel in the right column of the WebLogic console.
- 8. WebLogic now returns to the Summary of Deployments panel in the right column of the console. For reference, see Figure 4-5.

ontrol	Monitoring				
applic	page displays a list of Java EE applications and stand-alo ications and modules can be started, stopped, updated (re using the controls on this page.				
To ins	stall a new application or module for deployment to target:	s in this domain, click the	Install bu	tton.	
	omize this table				
Custo	omize this table yments				
Custo	yments			Showing 1 to 1	of1 Previous Ne
Custo Deploy	yments	State	Health	Showing 1 to 1	of 1 Previous Ne Deployment Order
Custo Deploy Inst	yments tall Update Delete Start V Stop V	State Prepared	Health	-	Deployment Order



- 9. Verify that the State of the MOCHA deployment is Prepared.
- 10. Select the previously deployed MOCHA deployment, and then click Delete.

11. WebLogic will now display the panel Delete Application Assistant in the right column of the console for confirmation to start servicing requests. For reference, see Figure 4-6.

Delete Application Assistant	
Yes No	
Delete Deployments	
You have selected the following deployments to be removed from this domain configuration. Click 'Yes' to continue, or 'No' to MOCHA	o cancel.
Yes No	

Figure 4-6: Delete Application Assistant

- 12. Click Yes in the Delete Application Assistant panel in the right column of the WebLogic console.
- 13. WebLogic now returns to the Summary of Deployments panel in the right column of the console. For reference, see Figure 4-7.

Summary of Deployn	nents			
Control Monitoring				
domain. Installed appli by first selecting the ap	cations and mod plication name a	lules can be started, s nd using the controls	stopped, update on this page.	n modules that have been installed to this ed (redeployed), or deleted from the domain ain, click the Install button.
Deployments	Delete	Start 🗸 Stop 🗸		Showing 0 to 0 of 0 Previous Next
Install Opdate	Delete			
Name 🐟	State	Health	Туре	Deployment Order
		There are no ite	ms to display	
Install Update	Delete	Start 🗸 Stop 🗸		Showing 0 to 0 of 0 Previous Next

Figure 4-7: Summary of Deployments – MOCHA Deployment Deleted

14. Verify that the MOCHA deployment is deleted and no longer present.

15. Within the Change Center panel in the left column of the WebLogic console, click Activate Changes. For reference, see Figure 4-8.

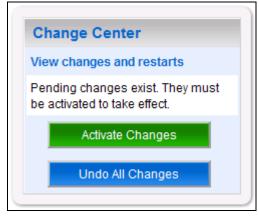


Figure 4-8: Activate Changes

4.2. Deploy New MOCHA Server Build

The following steps detail the deployment of the MOCHA Server application Build on WebLogic application Server.

- 1. Open and log into the WebLogic console. This is located at: http://<Deployment Machine>:7001/console.
- 2. Within the Domain Structure panel in the left column of the WebLogic console, click the Deployments node. For reference, see Figure 4-9.



Figure 4-9: Domain Structure

3. Within the Change Center panel in the left column of the WebLogic console, click Lock & Edit. For reference, see Figure 4-10.

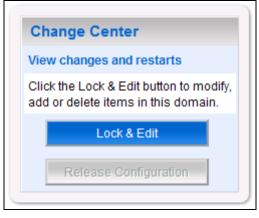


Figure 4-10: Change Center

4. Click Install found in the Deployments panel in the right column of the WebLogic console. For reference, see Figure 4-11.

Control	ary of Deploymen	ts			
This ; applic and u To ins	page displays a list of J	an be started, stopp is page.	ed, updated (redeploy	ed), or deleted from t	have been installed to this domain. Installed he domain by first selecting the application name stall button.
Deploy	yments				
Deploy	-	elete Start 🗢	Stop 🗸		Showing 0 to 0 of 0 Previous Ne
_	-	elete Start 🗸	Stop 🗢	Туре	Showing 0 to 0 of 0 Previous Net
Inst	tall Update D		Health	Type items to display	

Figure 4-11: Deployments

5. WebLogic will now display the panel Install Application Assistant in the right column of the console, where the location of the MOCHA Server deployment will be found. For reference, see Figure 4-12.

nstall Application As	sistant
Back Next Fin	isin Cancel
Locate deployment to in	stall and prepare for deployment
	epresents the application root directory, archive file, exploded archive directory, or application module descriptor that you want nter the path of the application directory or file in the Path field.
Note: Only valid file paths the required deployment	s are displayed below. If you cannot find your deployment files, upload your file(s) and/or confirm that your application contains descriptors.
Path:	/opt/bea/domains/PRE/servers/AdminServer/upload
Recently Used Paths:	/opt/bea/domains/PRE/servers/AdminServer/upload
	/opt/bea/domains/PRE/servers/AdminServer/upload/PREv05
Current Location:	pre05-test-app / opt / bea / domains / PRE / servers / AdminServer / upload
There are no files at the c	urrent location which are selectable. Choose a parent folder from the location links above or enter a new path.
Reals Next	Concel
Back Next Fin	Cancel

Figure 4-12: Install Application Assistant

- Select the MOCHA deployment; select MOCHA Server-> mocha-serverx.x.xx.xxx.ear file. (version # will depend on the current MOCHA Server version #. E.g. for MOCHA Server 2.0 -> mocha-server-2.0.00.009.ear).
- 7. If the MOCHA Server build for deployment has already been transferred to the Deployment Machine, navigate to the deployment file location using the links and file structure displayed within the Location panel within the Install Application Assistant in the right column of the console. (version # will depend on the current MOCHA Server version #. E.g., for MOCHA Server 2.0 -> mocha-server-2.0.00.009.ear).

tory, or application module descriptor that you want to
file(s) and/or confirm that your application contains the
QAPHARMACYAdminServer/upload
CYAdminServer/upload
servers / SQAPHARMACYAdminServer / upload
40

Figure 4-13: Locate Deployment to Install and Prepare for Deployment

- b) If the MOCHA Server build for deployment has not been transferred to the Deployment Machine:
 - (1) Click on the upload your file(s) link in the Install Application Assistant panel in the right section of the console.
 - (2) Click the Deployment Archive Browse to see the Choose file dialogue used to select the Deployment Archive.
 - (3) Click Next in the Upload a Deployment to the admin server panel in the right column of the WebLogic console to return to the Locate deployment to install and prepare for deployment panel within the Install Application Assistant. For reference, see Figure 4-14.(version # will depend on the current MOCHA Server version # e.g. for MOCHA Server 2.0 -> mocha-server-2.0.00.009.ear).

Install Applica	ntion Assistant
Back Next	Finish Cancel
Upload a Deplo	yment to the admin server
	e button below to select an application or module on the machine from which you are currently browsing. When you have located the file, tton to upload this deployment to the Administration Server.
Deployment Archive:	C:\MOCHA.v1.0.00.001.ear Browse
Upload a deploy	ment plan (this step is optional)
deployment plan	an is a configuration which can supplement the descriptors included in the deployment archive. A deployment will work without a 1, but you can also upload a deployment plan archive now. This deployment plan archive will be a directory of configuration information ar file. See related links for additional information about deployment plans.
Deployment Pla Archive:	n Browse
Back Next	Finish

Figure 4-14: Upload a Deployment to the Admin Server

8. Once the MOCHA Server build for deployment is located and selected, click Next.

9. WebLogic will now display the panel Choose targeting style within the Install Application Assistant in the right column of the console. Leave the default value selected, Install this deployment as an application, and click Next. For reference, see Figure 4-15.

Install Application Assistant
Back Next Finish Cancel
Choose targeting style
Targets are the servers, clusters, and virtual hosts on which this deployment will run. There are several ways you can target an application.
Install this deployment as an application
The application and its components will be targeted to the same locations. This is the most common usage.
Install this deployment as a library
Application libraries are deployments that are available for other deployments to share. Libraries should be available on all of the targets running their referencing applications.
Install this deployment as an application, but target the components individually
Useful when one or more of the modules or components must have targets unique from the rest of the application.
Back Next Finish Cancel

Figure 4-15: Choose Targeting Style

10. Within the Install Application Assistant in the right column of the console, WebLogic will now display the panel Select deployment targets, where the Deployment Server will be selected as the target in the next step. For reference, see Figure 4-16.

nstall Application Assistant	
Back Next Finish Cancel	
Select deployment targets	
Select the servers and/or clusters to which you want to deploy this appli later).	cation. (You can reconfigure deployment targets
Available targets for PREv05 :	
Servers	
AdminServer	
✓ LocalPharmacyServer	
Back Next Finish Cancel	

Figure 4-16: Select Deployment Targets

NOTE: Select part of cluster and select mocha1, 2, 3,

11. For the Target, select the Deployment Server. For example, LocalPharmacyServer.

- 12. Click Next.
- 13. Within the Install Application Assistant, WebLogic will now display the panel Optional Settings in the right column of the console, where the name of the deployment and the copy behavior are chosen. For reference, see Figure 4-17.

Install Application Assistant
Back Next Finish Cancel
Optional Settings
You can modify these settings or accept the defaults
- General -
What do you want to name this deployment?
Name: MOCHA
- Security
What security model do you want to use with this application?
DD Only: Use only roles and policies that are defined in the deployment descriptors.
Custom Roles: Use roles that are defined in the Administration Console; use policies that are defined in the deployment descriptor.
Custom Roles and Policies: Use only roles and policies that are defined in the Administration Console.
Advanced: Use a custom model that you have configured on the realm's configuration page.
- Source accessibility
How should the source files be made accessible?
O Use the defaults defined by the deployment's targets
Recommended selection.
Copy this application onto every target for me
During deployment, the files will be copied automatically to the managed servers to which the application is targeted.
I will make the deployment accessible from the following location
Location: /opt/bea/domains/PRE/servers/AdminServer/upload/MOC
Provide the location from where all targets will access this application's files. This is often a shared directory. You must ensure the application files exist in this location and that each target can reach the location.
Back Next Finish Cancel

Figure 4-17: Optional Settings

- 14. Enter the Name for the deployment. For example, MOCHA.
- 15. Verify that the following default option for Security is selected:

DD Only: Use only roles and policies that are defined in the deployment descriptors.

16. Verify that the following default option for Source accessibility is selected:

```
Use the defaults defined by the deployment's targets.
```

- 17. Click Next.
- 18. Within the Install Application Assistant in the right column of the console WebLogic will now display the panel Review your choices and click Finish, which summarizes the steps completed above. For reference, see Figure 4-18.(version # will depend on the current MOCHA Server version #. E.g., for MOCHA Server 2.0 -> mocha-server-2.0.00.009.ear).

Install Applicat	tion Assistant	
Back	Finish Cancel	
Review your cho	pices and click Finish	
Click Finish to co	omplete the deployment. This may take a few moments to	complete.
 Additional conf 	iguration	
In order to work s completing this a		uration. Do you want to review this application's configuration after
💿 Yes, take me	e to the deployment's configuration screen.	
 No, I will revi Summary — 	iew the configuration later.	
Deployment:	/opt/bea/domains/PRE/servers/AdminServer/upload/MC	DCHA.v1.0.00.001.ear
Name:	MOCHA	
Staging mode:	Use the defaults defined by the chosen targets	
Security Model:	DDOnly: Use only roles and policies that are defined in	the deployment descriptors.
Customize this t	able	
Target Summary	1	
Components 🔗	>	Targets
MOCHA.v1.0.00	.001.ear	LocalPharmacyServer
Back	Finish Cancel	

Figure 4-18: Review Your Choices and Click Finish

19. Verify that the values match those entered in Steps 6 through 18 and click Finish.

20. WebLogic will now display the panel Settings for MOCHA, in the right column of the console, where the values previously entered are available as well as a setting to change the deployment order. For reference, see Figure 4-19.

Settings for MOCHA(2.0.00).008) - SQAPHARM	ACY - WLS Console - Windows Internet Explorer		
🚱 🗢 🙋 http://10.226.4	17.130:7001/console/co	onsole.portal?_nfpb=true&_pageLabel=AppApplicationOverviewPa 💌	🗟 😏 🗙 🚼 Google	₽ -
<u> E</u> ile <u>E</u> dit <u>V</u> iew F <u>a</u> vorites <u>T</u> ools	s <u>H</u> elp			
🔶 Favorites 🛛 🚖 📀 Login - Ja	azz Team Server			
Settings for MOCHA(2.0.00.008	8) - SQAP		🟠 🔹 🔝 🐇 🖃 📥 🔹 <u>P</u> age 🕶 <u>S</u> afety 🕶	T <u>o</u> ols • 🕐 •
Change Center View changes and restarts	Home >Summary of Deployments >	MOCHA(2.0.008)		^
Click the Lock & Edit button to modify, add or	Settings for MOCHA(2.0.0	0.008)		
delete items in this domain. Lock & Edit	Overview Deployment Pla	n Configuration Security Targets Control Testing Monitoring Notes		
Release Configuration	Click the Lock & Edit button	in the Change Center to modify the settings on this page.		
Domain Structure	Save			
SQAPHARMACY	Use this page to view the ger modules (such as Web applica	neral configuration of an Enterprise application, such as its name, the physical path to the application files, tions and EJBs) that are contained in the Enterprise application. Click on the name of the module to view	the associated deployment plan, and so on. The table at the end of the page is and update its configuration.	sts the
Security Realms	Name:	MOCHA	The name of this Enterprise Application. More Info	
Diagnostics	Archive Version:	2.0.00.008	The archive version, from the manifest or overridden during deployment.	More Info
	Path:	/ u01/ app/ user_projects/ domains/ SQAPHARMACY/ servers/ SQAPHARMACYAdminServer/ upload/ mocha-server-2. 0. 00. 008. ear	The path to the source of the deployable unit on the Administration Server.	More Info
	Deployment Plan:	(no plan specified)	The path to the deployment plan document on Administration Server. More	e Info
How do I	Staging Mode:	(not specified)	The mode that specifies whether a deployment's files are copied from a sour Administration Server to the Managed Server's staging area during applicatio preparation. More Info	ce on the on
 Start and stop a deployed Enterprise application 	Security Model:	DDOnly	The security model that is used to secure a deployed module. More Info	
Configure an Enterprise application Create a deployment plan Target an Enterprise application to a server	👸 Deployment Order:	100	An integer value that indicates when this unit is deployed, relative to other or units on a server, during startup. More Info	deployable
raiget an Enterprise application to a server Test the modules in an Enterprise application System Status	₍ Deployment Principal Name:		A string value that indicates what principal should be used when deploying t archive during startup and shutdown. This principal will be used to set the cu when calling out into application code for interfaces such as Application.Ifsery no principal name is specified, then the anonymous principal will be used. M	cleListener, If
Health of Running Servers	Modules and Components			
Failed (0) Critical (0)			Showing 1 to 1 of 1 Pre	vious Next
Overloaded (0)	Name 🗠			Туре
Warning (0) OK (7)	E MOCHA (2.0.00.008)			Enterprise Application
	E EBs			
	DosingInfoServiceB			EJB
	OrderCheckService			EJB
	Modules			
	MOCHA			Web Application
	ps_ms_ejb.jar			EJB Module
	Web Services			
	None to display		Showing 1 to 1 of 1 Pre	winut Not
			Showing I to I or I Pre	TYNUS IVEXL
WebLogic Server Version: 10.3.2.0 Copyright © 1996,2009, Oracle and/or its affiliates. All right Oracle is a registered trademark of Oracle Corporation and	ts reserved. t/or its affiliates, Other name <u>s may be t</u>	Indemarks of their respective owners.		
			😜 Internet 🛛 🖓 👻 🤄	85% -

Figure 4-19: Settings for MOCHA

21. Leave all the values as defaulted by WebLogic and click Save.

22. Within the Change Center panel in the left column of the WebLogic console, click Activate Changes. For reference, see Figure 4-20.

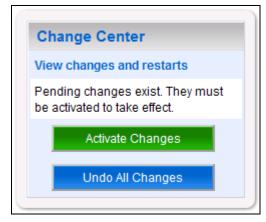


Figure 4-20: Activate Changes

23. Within the Domain Structure panel in the left column of the WebLogic console, click the PRE > Deployments node. For reference, see Figure 4-21.

Domain Structure
PRE Environment Deployments Services Security Realms

Figure 4-21: Domain Structure

24. WebLogic will now display the panel Summary of Deployments in the right column of the console, where all deployments for the WebLogic domain are listed. For reference, see Figure 4-22.

	ary of Deployments					
Control	Monitoring					
applic and u To ins Custo	cations and modules can be s using the controls on this page	applications and stand-alone application tarted, stopped, updated (redeployed), or .lle for deployment to targets in this doma	deleted fron	n the dom	nain by first selecting the	
Inst		Servicing all requests]		Showing 1 to 1	of 1 Previous Next
Inst			State	Health	Showing 1 to 1	of 1 Previous Next
	tall Update Delete	Servicing all requests	State Prepared	Health	-	Deployment Order
	tall Update Delete	Servicing all requests			Type Enterprise Application	Deployment Order

Figure 4-22: Summary of Deployments

- 25. Select the previously deployed MOCHA deployment, click Start, and then select Servicing all requests from the drop-down list box.
- 26. WebLogic will now display the panel Start Application Assistant in the right column of the console for confirmation to start servicing requests. For reference, see Figure 4-23.

Start Application Assistant			
Yes No			
Start Deployments			
You have selected the following deplo	ments to be started. Click 'Yes' to contin	ue, or 'No' to cancel.	
Yes No			

Figure 4-23: Start Application Assistant

27. Click Yes in the Start Application Assistant panel in the right column of the WebLogic console.

28. WebLogic now returns to the Summary of Deployments panel in the right column of the console. For reference, see Figure 4-24.

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Figure 4-24: Summary of Deployments – MOCHA Deployment Active

29. Verify that the State of the MOCHA deployment is Active.