## **Pharmacy Reengineering**

# Medication Order Check Healthcare Application (MOCHA) Server

Version 1.1.01

**Installation Guide** 



September 2013

### **Revision History**

Date	Version Number	Description of Revision	Author
09/12/2013	1.1	Added version number to the Title page, changed MOCHA Server version number in the footer from 1.1 to 1.1.01, changed the EAR filename and made formatting changes.	REDACTED
10/26/2012	1.0	Updated Title Page	REDACTED
08/27/2012	1.0	Removed FOD comments	REDACTED
08/21/2012	1.0	Updated formatting, minor text edits, internal cross-references.	REDACTED
03/01/2012	1.0	Initial draft of the Pharmacy Reengineering (PRE) Installation Plan for MOCHA SERVER build deployment on WebLogic Application Server.	REDACTED

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#### 1 Purpose

The purpose of this Install guide is to provide instructions for the deployment of the PRE MOCHA Server application build on a WebLogic (application) Server.

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.

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#### 2 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 2-1.



Figure 2-1: Domain Structure

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



Figure 2-2: 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 2-3.

uninary of Deploy	ments			
ontrol Monitoring				
This page displays a li applications and mode and using the controls	st of Java EE applications lles can be started, stopp on this page.	and stand-alone application modules that have been ed, updated (redeployed), or deleted from the domain	installed to this do by first selecting th	omain. Installed ne application name
To install a new applic	ation or module for deploy	yment to targets in this domain, click the Install button.		
Customize this table				
Customize this table Deployments				
Customize this table Deployments Install Update	Delete Start 🗸	Stop 🗸	Showing 1 to	1 of 1 Previous   Next
Customize this table Deployments Install Update	Delete Start 🗸	Stop 🗸	Showing 1 to	1 of 1 Previous   Next
Customize this table Deployments Install Update Name $\Leftrightarrow$	Delete Start 👻	Stop  When work completes Force Stop Now	Showing 1 to	1 of 1 Previous   Next
Customize this table Deployments Install Update Name $\Leftrightarrow$ Image: Update	Delete Start 🗸	Stop  When work completes Force Stop Now Stop, but continue servicing administration requests	Showing 1 to rise Application	1 of 1 Previous   Next Deployment Order 100
Customize this table Deployments Install Update Name $\Leftrightarrow$ Imstall Update	Delete Start →	Stop  When work completes Force Stop Now Stop, but continue servicing administration requests Stop	Showing 1 to rise Application Showing 1 to	1 of 1 Previous   Next Deployment Order 100 1 of 1 Previous   Next

Figure 2-3: 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 2-4.

Force Stop Application Assistant	
Yes No	
Stop Deployments	
You have selected the following deployments to be immediately stopped. Press "Yes' to continue, or "No' to cancel.	
Yes No	

Figure 2-4: 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 2-5.

muro	Monitoring				
This p appli and u	page displays a list of Java EE applications and s cations and modules can be started, stopped, up using the controls on this page.	stand-alone application modules the dated (redeployed), or deleted from	nat have t n the don	been installed to this don nain by first selecting the	nain. Installed application name
To in:	stall a new application or module for deployment	to targets in this domain, click the	Install bu	tton.	
Custo	omize this table				
Custo	omize this table yments				
Custo eploy	omize this table yments tall Update Delete Start 🗸 Sto	₽ <b>  ~</b>		Showing 1 to 1	of 1 Previous   Ne
Custo eploy Ins	omize this table yments tall Update Delete Start v Sto Name 🌣	₽   ▼ State	Health	Showing 1 to 1	of 1 Previous   Ne
Custo eploy Ins	omize this table yments tall Update Delete Start → Sto Name ↔ @ ☐MOCHA	P 👻 State Prepared	Health	Showing 1 to 1 Type Enterprise Application	of 1 Previous   Ne Deployment Orde

Figure 2-5: Summary of Deployments – MOCHA Deployment Prepared

- 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 2-6.

elete Application Assista	nt
Yes No	
Delete Deployments	
ou have selected the following MOCHA	eployments to be removed from this domain configuration. Click 'Yes' to continue, or 'No' to cancel.
ou have selected the following MOCHA Yes No	eployments to be removed from this domain configuration. Click 'Yes' to continue, or 'No' to cancel.

Figure 2-6: 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 2-7.

Control Moni	toring					
This page dis domain. Insta by first selecti	plays a list of . lled applicatio ng the applica	Java EE app ns and mod tion name a	lications and stand- ules can be started, nd using the control:	alone applica stopped, upd s on this page	tion modules that have been dated (redeployed), or deleted e.	installed to this d from the domain
To install a pa	w application	or module fo	or deployment to targ	ets in this do	main, click the Install button.	
To install a ne	in approvation					
ro instali a ne	in approvation					
Customize thi	s table					
Customize thi Deployments	s table					
Customize thi Deployments	s table	elete	itari 🗸 Stop 🗸		Showing 0 to 0 of	0 Previous   Nex
Customize thi Deployments	s table Update	elete State	itart 🗢 Stop 🗢	Туре	Showing 0 to 0 of Deployment Order	0 Previous   Nex
Customize thi Deployments	s table	elete State	Health There are no it	Type ems to displa	Showing 0 to 0 of Deployment Order	0 Previous   Nex

Figure 2-7: 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 2-8.



Figure 2-8: Activate Changes

#### 3 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 3-1.



Figure 3-1: Domain Structure

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

Ch	ange Center
Viev	v changes and restarts
Click add	the Lock & Edit button to modify or delete items in this domain.
	Lock & Edit
1	Release Configuration

Figure 3-2: Change Center

4. Click Install found in the Deployments panel in the right column of the WebLogic console. For reference, see Figure 3-3.

Summary of Deployments						
Control Monitoring						
This page displays a list of Java applications and modules can and using the controls on this p	This page displays a list of Java EE applications and stand-alone application modules that have been installed to this domain. Installed applications and modules can be started, stopped, updated (redeployed), or deleted from the domain by first selecting the application name and using the controls on this page.					
To install a new application or r	nodule for deployme	ent to targets in this do	main, click the Inst	tall button.		
Customize this table						
Deployments						
Install Update Delet	e Start 🗢 S	Stop 🗢		Showing 0 to 0 of 0 Previous   Next		
🔲 Name 🐟	State	Health	Туре	Deployment Order		
		There are no iter	ms to display			
Install Update Delet	e Start 🗢 S	Stop		Showing 0 to 0 of 0 Previous   Next		

Figure 3-3: 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 3-4.

nstall Application As	sistant
Back Next Fin	Ish Cancel
Locate deployment to in	stall and prepare for deployment
Select the file path that re to install. You can also e	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.
Back Next Fin	Cancel

Figure 3-4: Install Application Assistant

- 6. Select the MOCHA deployment; select the MOCHA Server-> mocha-server-1.1.01.1420.ear file.
  - a) 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. For reference, see Figure 3-5.

stall Application As	isistant Cancel
ocate deployment to in	install and prepare for deployment
Select the file path that r you want to install. You o	epresents the application root directory, archive file, exploded archive directory, or application module descriptor that can also enter the path of the application directory or file in the Path field.
Note: Only valid file path contains the required de	s are displayed below. If you cannot find your deployment files, upload your file(s) and/or confirm that your application ployment descriptors.
Path:	/opt/bea/domains/PRE/servers/AdminServer/upload/MOCHA.v1.0.00.001.ear
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
	).001.ear

Figure 3-5: 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. For reference, see Figure 3-5.
  - (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 3-6.

nstall Applica	tion Assistant
Back Next	Ethisin Cancel
Upload a Deplo	yment to the admin server
Click the Browse click the Next but	button below to select an application or module on the machine from which you are currently browsing. When you have located the file, ton 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)
A deployment pla deployment plan packaged as a .j	an is a configuration which can supplement the descriptors included in the deployment archive. A deployment will work without a , 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:	Browse
Back Next	Finish Cancel

Figure 3-6: Upload a Deployment to the Admin Server

- 7. Once the MOCHA Server build for deployment is located and selected, click Next.
- 8. 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 3-7.

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 3-7: Choose Targeting Style

9. 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 3-8.

istall Application	Assistant	
Back Next	Finish Cancel	
Select deployment	argets	
Select the servers a later).	d/or clusters to which you want to deploy	this application. (You can reconfigure deployment targets
vailable targets for	REv05 :	
Servers		
Servers		
Servers		
Servers AdminServer LocalPharmacy	Server	
Servers AdminServer CocalPharmacy	Server	

Figure 3-8: Select Deployment Targets

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

- 10. For the Target, select the Deployment Server. For example, LocalPharmacyServer.
- 11. Click Next.
- 12. 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 3-9.

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.
O 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?
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 3-9: Optional Settings

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

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

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

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

- 16. Click Next.
- 17. 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 3-10.

Install Applicat	ion Assistant	
Back	Finish Cancel	
Review your cho	vices and click Finish	
Click Finish to co	mplete the deployment. This may take a few moments to	o complete.
<ul> <li>Additional conf</li> </ul>	íguration	
In order to work se completing this as	uccessfully, this application may require additional config ssistant?	uration. Do you want to review this application's configuration after
	e to the deployment's configuration screen.	
No, I will revi	ew 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	,	
Components 🔅	,	Targets
MOCHA.v1.0.00.	001.ear	LocalPharmacyServer
Back	Finish Cancel	

Figure 3-10: Review Your Choices and Click Finish

- 18. Verify that the values match those entered in Steps 6 through 17 and click Finish.
- 19. 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 3-11.

	iniguration security rangets control resulting Monitoring Notes		
Save			
Use this page to view the general modules (such as Web applicatio	configuration of an Enterprise application, such as its name, the physical path to the application ns and EJBs) that are contained in the Enterprise application. Click on the name of the module to	flies, the associated deployment plan, and so on. The table at the end of the page lis o view and update its configuration.	its the
lame:	MOCHA	The name of this Enterprise Application. More Info	
ath:	/ opl/ bea/ domains/ PRE/ servers/ AdminServer/ upload/ MOCHA, v1. 0. 00. 001, ear	The path to the source of the deployable unit on the Administration Server.	More Info
eployment Plan:	(no plan specified)	The path to the deployment plan document on Administration Server. More	Info
taging Mode:	(not specified)	The mode that specifies whether a deployment's files are copied from a sou Administration Server to the Managed Server's staging area during applicate preparation. More Info	urce on the on
ecurity Model:	DDOnly	The security model that is used to secure a deployed module. More Info	
Beployment Order:	100	An integer value that indicates when this unit is deployed, relative to other de on a server, during startup. More Info	eployable uni
Deployment Principal Name:		A string value that indicates what principal should be used when deploying archive during startup and shuddown. This principal will be used to set the c when calling out into application code for interfaces such as ApplicationLife no principal name is specified, then the anonymous principal will be used.	the file or urrent subjec cycleListener More Info
Save Nodules and Components		Showing 1 to 1 of 1 F	Previous   N
Save Nodules and Components Name &		Showing 1 to 1 of 1 F	Previous   N
Notules and Components		Showing 1 to 1 of 1 F	Previous   N Type Enterpris Application
Save Save Name & BMOCHA E EJBs		Showing 1 to 1 of 1 F	Previous   N Type Enterpris Applicatio
Save Modules and Components Name & B MOCHA B EJBs DrugintoServiceBean		Showing 1 to 1 of 1 F	Previous   No Type Enterpris Application EJB
Save Modules and Components Name & B MOCHA B EJBs DrugintoServiceBean OrderCheckServiceBean		Showing 1 to 1 of 1 F	Previous   N Type Enterpris Application EJB EJB
Save todules and Components Name & B MOCHA E L/Bs DrugintoServiceBean C OrderCheckServiceBean B Modules	, ,	Showing 1 to 1 of 1 F	Previous   N Type Enterpris Application EJB EJB
Save Modules and Components Name & B MOCHA ELBs DrugintoSeniceBean OrderCheckSeniceBean B Modules Modules Modules		Showing 1 to 1 of 1 F	Previous   N Type Enterprise Application EJB EJB EJB Web Application
Save Modules and Components Name & B MOCHA B EJBs DrugintoSeniceBean OrderCheckSeniceBean Modules Modules Modules MoCHA DugintoSeniceBean		Showing 1 to 1 of 1 F	Previous   N/ Type Enterpris Application EJB EJB Web Application EJB Kodule

Figure 3-11: Settings for MOCHA

- 20. Leave all the values as defaulted by WebLogic and click Save.
- 21. Within the Change Center panel in the left column of the WebLogic console, click Activate Changes. For reference, see Figure 3-12.



Figure 3-12: Activate Changes

22. Within the Domain Structure panel in the left column of the WebLogic console, click the PRE > Deployments node. For reference, see Figure 3-13.



Figure 3-13: Domain Structure

23. 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 3-14.

ontro	Monitoring					
This appli and u	page displays a list of J ications and modules ca using the controls on thi	Java EE applications and stand-alone applicatio an be started, stopped, updated (redeployed), o is page.	on modules the or deleted from	at have b In the dom	been installed to this don nain by first selecting the	nain. Installed application name
To in	istall a new application of	or module for deployment to targets in this dom	ain, click the Ir	nstall bu	tton.	
Cust	omize this table					
Cust Deplo	omize this table					
Custo Deplo	omize this table syments	elete Servicing all requests			Showing 1 to 1	of 1 Previous   Nex
Custo Deplo	tomize this table syments stall Update De Name 🐟	elete Servicing all requests Servicing only administration request	s State	Health	Showing 1 to 1	of 1 Previous   Nex
Custo Deplo	tall Update De Name & B C MOCHA	elete Servicing all requests Servicing only administration request	S State Prepared	Health	Showing 1 to 1 Type Enterprise Application	of 1 Previous   Nex Deployment Order 100

Figure 3-14: Summary of Deployments

- 24. Select the previously deployed MOCHA deployment, click Start, and then select Servicing all requests from the drop-down list box.
- 25. 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 3-15

Yes No					
Start Deployments					
ou have selected the MOCHA	ollowing deployments	to be started. Click 'Y	es' to continue, or 'No' t	o cancel.	

Figure 3-15: Start Application Assistant

- 26. Click Yes in the Start Application Assistant panel in the right column of the WebLogic console.
- 27. WebLogic now returns to the Summary of Deployments panel in the right column of the console. For reference, see Figure 3-16.

ontro	ol Monitoring				
This appli and u	page displays a list of Java EE applications and stand-alone app lications and modules can be started, stopped, updated (redeploy using the controls on this page.	olication modules yed), or deleted fr	s that hav rom the d	e been installed to this do omain by first selecting th	omain. Installed he application name
To in	nstall a new application or module for deployment to targets in thi	s domain, click th	ne Install	button.	
Cust	tomize this table				
Custo Deplo	tomize this table oyments stall Update Delete Start & Stop &			Showing 1 to	1 of 1 Previous   Ne
Custo Deplo	tomize this table oyments stall Update Delete Start Stop V	State	Health	Showing 1 to	1 of 1 Previous   Ne
Custo Deplo	tomize this table byments stall Update Delete Start Stop V Name A B CMOCHA	State Active	Health	Showing 1 to Type Enterprise Application	1 of 1 Previous   Ne Deployment Order

Figure 3-16: Summary of Deployments – MOCHA Deployment Active

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

#### 4 Backout Plan

The following steps detail the Backout plan of the MOCHA Server application on WebLogic application Server.

- 1. Un-deploy MOCHA Server 1.1.01 build (mocha-server-1.1.01.1420.ear file) as detailed in <u>Section 2</u>.
- 2. Deploy MOCHA Server 1.1 build (mocha-server-1.1.00.001.ear file) as detailed in <u>Section 3</u>.