

# **BEA**WebLogic Portal™

MobileAware Interaction Server Installation Guide

Version 8.1 with Service Pack 4 (MobileAware Version 1.0) Document Revised: February 2005

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# MobileAware Interaction Server Installation Guide

### **About This Manual**

This document describes the process for installing and configuring the MobileAware Interaction Server, BEA WebLogic Edition.

Please read this document before commencing installation to ensure you comply with the installation pre-requisites and have access to relevant installation configuration information.

The document is split into two parts:

#### Installing the MobileAware Interaction Server on Microsoft Windows 2000

This section describes the installation and configuration of:

- 1. The MobileAware Interaction Server, BEA WebLogic Edition, including the Mobility Extension for BEA WebLogic Workshop 8.1 on Microsoft Windows 2000.
- 2. A BEA Sample Workshop Mobility Project used to illustrate how to use the features provided by the Mobility Extension.
- 3. A BEA Sample Mobility Portal Project for BEA WebLogic Platform 8.1, demonstrating the features of MobileAware's Mobilized BEA WebLogic Portal Framework solution.

The section also describes:

- Configuration of device emulators in BEA WebLogic Workshop
- Creating the necessary Domains and Applications required for importing the sample projects using the BEA Configuration Wizard

MobileAware Interaction Server Installation Guide

- Importing the Sample Projects into BEA WebLogic Workshop
- Installing the MobileAware Device Database with BEA WebLogic Workshop
- Installing the MobileAware Interaction Server on Sun Solaris, RedHat Linux, or HP-UX

This section describes the installation and configuration of:

- 1. The MobileAware Interaction Server, BEA WebLogic Edition on Sun Solaris, RedHat Linux and HP-UX
- 2. The MobileAware Device Database

### Installing the MobileAware Interaction Server on Microsoft Windows 2000

This section explains the installation procedure for installing the MobileAware Interaction Server, BEA WebLogic Edition for BEA WebLogic Platform 8.1 on Microsoft Windows 2000.

## Introduction

The BEAMAInteractionServer814-win.exe installation program is used to install the MobileAware Interaction Server, BEA WebLogic Edition on Microsoft Windows 2000.

It also installs the MobileAware Mobility Extension for BEA WebLogic Workshop 8.1 and places copies of the Sample Projects for BEA WebLogic Platform 8.1 on your hard drive so that they can later be imported into BEA WebLogic Workshop Applications.

### License

You must update your BEA License with the MobileAware Interaction Server, BEA WebLogic Edition product component details. The required product component information is available for download from the BEA Web Site at the same location as the software installers.

Once you have updated your license, you will be able to develop and test mobile-device ready content. If you have a developer or evaluation BEA License, the software installers will install an evaluation version of the MobileAware Device Database enabling testing on a number of popular device emulators as well as a number of popular mobile and PDA devices. A production license must be present to install and utilise the full MobileAware Device Database. Note: An invalid license will result in HTML being delivered.

Please contact a BEA or MobileAware sales representative if you wish to extend your evaluation or developer license or upgrade to a production license.

### Installation Pre-requisites

### **Software Pre-Requisites**

The following software must be installed prior to installing the MobileAware Interaction Server, BEA WebLogic Edition:

- BEA WebLogic Platform 8.1SP2, SP3 or SP4, including:
  - BEA WebLogic Application Server
  - BEA Workshop
  - PointBase database
- Internet Browser:
  - Netscape 4.75 or higher, or
  - Internet Explorer 5 or higher
- Windows 2000
- Java JDK / JRE 1.4.1 or 1.4.2 should be on the search path, with JAVA\_HOME set correctly

### **Administration Rights**

This installation program requires administration rights on the machine in order to complete the installation.

### License

Ensure that you have updated your BEA License with the MobileAware Interaction Server, BEA WebLogic Edition product component details. The required license component information can be downloaded from the same download page as the software installer.

# Installation Procedure for Windows

- 1. Run the BEAMAInteractionServer814-win.exe installation program.
- 2. When the "Introduction" screen is shown. Click Next to continue.



### Figure 1 MobileAware Interaction Server Introduction Screen

- 3. On the "License Agreement" screen, read the license agreement and select the I accept the terms of the License Agreement radio button if you are satisfied with the terms. Click Next to continue with the install.
- Note: The Next button is unavailable if the terms are not accepted.

#### Figure 2 License Agreement Screen



- 4. On the "Locate WebLogic Installation" screen, enter the location of your WebLogic 8.1 Installation or click Choose to browse to the location.. This is where the MobileAware Interaction Server, BEA WebLogic Edition and the MobileAware Mobility Extension for BEA WebLogic Workshop 8.1 will be installed.
- 5. Once you have indicated the install folder, click Next to continue.

🖳 MobileAware Interaction Se	rver, BEA WebLogic Edition
	Locate WebLogic Installation
MobileAware Interaction Server, BEA WebLogic Edition	Locate your WebLogic 8.1 SP2 or SP3 installation folder. MobileAware Interaction Server BEA Edition will be installed in this location. E.g. C3beatweblogic81
	Enter folder name or click "Choose"
	C:\bea-81sp3\weblogic81
<b>€be</b> a™	Restore Default Folder Choose
mobileaware	
InstallAnywhere by Zero G	
Cancel	Previous

### Figure 3 Location WebLogic Installation Screen

6. On the "Pre-Installation Summary Screen", review the installation configuration information. If the information is correct, click Install. Otherwise, click Previous to go back through the screens and modify the provided information.



### Figure 4 Pre-Installation Summary Screen

7. You will now see a series of "Installing MobileAware Interaction Server" screens followed by an "Updating Workshop" screen while the installation and configuration of the MobileAware Interaction Server completes.

Note: It really does take several minutes to update the Workshop help files!



#### Figure 5 Installing MobileAware Interaction Server Screen 1

Figure 6 Installing MobileAware Interaction Server Screen 2





### Figure 7 Please Wait, Updating Workshop Screen

8. The "Online Help" screen will be displayed following a successful install. Check "Yes" to view the online help in Internet Explorer. Click Next

#### Figure 8 Online Help Screen

🖫 MobileAware Interaction Serv	er, BEA WebLogic Edition	
		Online Help
MobileAware Interaction Server, BEA WebLogic Edition	Do you wish to view the online help?	
<b>bea</b> mobileaware	✔ Yes	
InstallAnywhere by Zero G		
Cancel		Previous Next

### MobileAware Interaction Server Installation Guide

9. The "Install Complete" screen will be displayed following a successful install. Click Done to exit the installer.

Figure 9 Installation Complete Screen

🖳 MobileAware Interaction Ser	ver, BEA WebLogic Edition
	Install Complete
MobileAware Interaction Server, BEA WebLogic Edition	Congratulations! MobileAware Interaction Server, BEA WebLogic Edition has been successfully installed to: C:\bea-81sp3\weblogic81\mobileaware
<b>be</b> a-	The Mobility Extension for BEA WebLogic Workshop 8.1 has been successfully installed to: C:\bea-81sp3\weblogic81\workshop
mobileaware	Press "Done" to quit the installer.
InstallAnywhere by Zero G Cancel	Previous

### **Configuring the MobileAware Interaction Server**

### Introduction

The location of the MobileAware Interaction Server installation was pre-configured during the installation to <br/>
bea installation directory>\weblogic81\mobileaware.

For advanced users who may have multiple installations of the MobileAware Interaction Server, this section describes how to re-configure the MobileAware Interaction Server location for use with the MobileAware Sample Projects for BEA Workshop and BEA Portal.

## Configuring the MobileAware Interaction Server Location

To configure the MobileAware Interaction Server location:

1. Select the MobileAware MIS tab from the IDE Properties within your BEA Workshop Environment (Choose Tools > IDE Properties) and click OK.



### Figure 10 IDE Properties

2. he location of the MobileAware Interaction Server installation was pre-configured during the installation to <br/>bea installation directory>\weblogic81\mobileaware. To change the location to point at a different MobileAware Interaction Server installation, enter the location of the MobileAware Interaction Server installation in the MIS Install Location field or click Browse to browse to the location. This will enable access to device diagnostic and device management tools from within BEA WebLogic Workshop.

11

Gei Gei	neral itor	MIS Install Location		
H-C	Printing	C:\bea-81sp3\weblogic81\mobileaware Browse.		
Bro Del	] Syntax Coloring owser bugger Views play	The MobileAware mobility extens MobileAware Interaction Server. <b>Device Classes</b>	ion requires an installation of Set this folder to the root of this installation.	
Em ExI Hel JSF Mo Pai Poi Poi Pro	ulators ternal Libraries  p bileAware MIS ge Flow rtal Services xxy Server ols	Display Name IsPDA IsPDA IsLandscapePDA IsFortraitPDA IsFullBrowser WAP 1:x Browser WAP 2:x Browser WAP 2:x Narrow Browser WAP 2:x Wide Browser Colour WAP	Expression IsMenuDriven IsPDA IsLandscapePDA IsFortraitPDA IsFullBrowser IsMenuDriven and MLVersion.find('XHTM IsMenuDriven and MLVersion.find('XHTM)	
		Defaults		

### Figure 11 MobileAware Interaction Server Location

### Creating the Workshop Domain and Installing the Sample Workshop Projects

### Introduction

This section describes creating a BEA Workshop Domain, creating a new application, and then importing the provided Sample Workshop Projects into the newly created domain.

# **Create Mobility Domain**

To create the Mobility Domain:

1. Launch the BEA WebLogic Configuration wizard from the Windows Start menu.

#### Creating the Workshop Domain and Installing the Sample Workshop Projects

Choose Start > Programs > <BEA install directory> > Configuration Wizard

If you have BEA Workshop open, you can also launch it from the tools menu.

Choose Tools > WebLogic Server > Configuration Wizard

2. Select "Create a new WebLogic configuration" and click Next.

Figure 12 Configuration Wizard – Create a new WebLogic Configuration

BEA WebLogic Configuration Wizard	
Create or Extend a Configuration	and the second
Choose between creating and extending a configuration. Based on your selection.	/ ho'a-
the Certiguation Vibard guides you through the steps to generate a new or extend an existing configuration.	22 UGa
© Create a new WebLogic configuration	
Extend an existing WebLogic configuration	
Start here to extend an existing WebLogic configuration.	
Use this option to add applications and serves; including Ontakase access (DBE) and Messaging (DBE This option also enables you to extend functionality by enabling WebLogic Workshop.	).
Ect Heb	tous Next

3. In the "Select a Configuration Template screen", select "Basic WebLogic Workshop Domain" and click Next.

Figure 13 Configuration Wizard – Basic WebLogic Workshop Domain

Beac WebLogic Portform Domain     Beac WebLogic Portform Domain     Beac WebLogic Portal Domain     Basic WebLogic Portal Domain     Beac WebLogic Workshop Domain	Create a basic WebCogic Workshop domary, without installing sample applications. Domains created from this template will support the WebCogic Server and WebCogic Workshop number fundationally, including support for IEE speciations. Web applications, Web Services and custom controls. Use domark created from the template for development of WebLogic Workshop applications.
	Author Difa Bastern Ter

4. On the "Choose Express or Custom Configuration" screen, select "Express" and click Next.



Figure 14 Configuration Wizard – Express Configuration

5. On the "Configure Administrative Username and Password" screen enter "weblogic" for username and "weblogic" for password and click Next.

#### Figure 15 Configuration Wizard – User Name and Password

BEA WebLogic Configu	ation Wizard	
Configure Administrati Create a user automatically assign This user is the default administra	ve Username and Password ed to the Administrative Role. or used to start development mode convers.	bea
💍 Disgard Changes		
User Name *	weblogic	
User Password *	******	
Confirm User Password *	******	
Description	This user is the default administrator.	
Eyk Help		Previous Next

- 6. On the "Configure Server Start Mode and Java SDK" screen, select Development Modeh within the WebLogic Configuration Startup Mode box.
- 7. Select the Sun JDK within the Java SDK Selection area and click Next.

### Figure 16 Configuration Wizard – Start Mode

WebLogic Configuration Wizard	
igure Server Start Mode and Java SDK se the WebLogic configuration startup mode and wa Software Development KR (SDK) to be used for the domain.	í be
ebLogic Configuration Startup Mode	Java SDK Selection
Cenvisionment Mode     Like book properties for usernance and     passion of and poll or applications to deplay,     Sun StK recommended for better startup     performance adming terakit weekspenet.     Or Production Mode     Receive the entry of a usernance and associated     and an rate pall for applications to deplay,     Weblogs, Exoded StM recommended for better     runtime performance and management.	(# SEA Suppled Stors     Suppled Stors
ruzzne performance and management, event If you plan to use WebLogic 28cokk in production, IEA recommends deve project cycle. Befer to the WebLogic 28cokie Nigration Guide for useful in Egit Help	O Other Java SDK [proven]

8. On the Create WebLogic Configuration screen, enter Mobility in the Configuration Name field and click Create.

Figure 17 Configuration Wizard – Mobility

Configuration Si	ummary		Configuratio	n Details
Template	srver Service 3/MS cgQueue CgQueue MS Server CgJMSServer 3/DBC Connection Factory MS Server CgJMSServer 3/DBC CgPool CgPool-nonXA 3/DBC Tx Data Source CgDataSource-nonXA		Attribute Name Description Author Location	Yalue Basic WebLogic Workshop Domain Create a basic WebLogic Workshop domain, without installing sample app BEA Systems, Inc. C:\bea-81sp3\weblogic81\common\templates\domains\wiw.jar
Summary View:	Deployment	-	1000	

9. The configuration wizard will now create the domain. When it completes, click Done on the Creating Configuration screen.

Figure 18 Configuration Wizard – Creating Configuration



**Note:** When you create a domain using the BEA WebLogic Configuration Manager, a default PointBase database is installed. The MobileAware Device Database will be installed into this database as described in Installing the MobileAware Device Database.

### **Create Mobility Application**

To create the Mobility application:

1. To create a new application in Workshop:

Choose file > new > application

MAtutorials - BEA	WebLogic Work	shop													_0
Elle Edit View Build	Debug Tools	Window Help													
		🕨 💼 Portal	D	11	en i su	- e ( 5	. e. m	I see as	al de l	ih l A	D. D		ID NO. 15		
Open		Portlet	-			1.25.5	· ~ ) [18	1.000.00			BAB	* <u>~</u> * ^			
Cinse		JSP File											Property Editor	· · · · · · · · · · · · · · · · · · ·	,
		* Web Service													
Close Application		Page Flow													
		Java Control													
ave Save		🚽 Java Class													
Sigve Asian		💑 Process File													
P save Hi		A Transformation File													
		Other File Types Ctrl+N													
		Application													
Import Module		Project													
import Files															
Page Setup															
Recent Files		•													
Recent Application	6														
C.Nr.															
													Description		
Locals Watch Stre	eams //Immediat	•				×	Calstac	k Threa	ds						)
Name	Value														
						_				-					
									Server	Kunning	Debugg	9ng		1105	91/126

#### Figure 19 Create New Application

- 2. From the New Application window:
  - a. Select Default Application
  - b. Click Browse next to the Directory field and browse the Domains directory, selecting your newly created Mobility domain.
  - c. Enter MobilityApp in the Name field this is the application where you will import the sample mobility application.
  - d. Click Browse next to the Server field and select the config.xml file inside the newly created Mobility domain.
- 3. Once you have filled in the fields as above, click Create and the application will be created.





Now that you have created a new Domain and a new Application, you can import the sample Workshop mobility project.

## Importing the Sample Workshop Mobility Project

The sample Workshop Mobility project is located in the <br/><br/>bea>\weblogic81\mobileaware\samples\BEAWorkshop directory.

Two versions of the project called restaurantWeb and restaurantWeb\_After were installed during the Mobility Extension installation. The restaurantWeb project has not yet been mobilized, while the restaurantWeb\_After project has already been fully mobilized.

You can install the restaurantWeb project as described below and then follow the steps described in the BEA Sample Workshop Mobility Project Guide to mobilize it.

- 1. Right click the newly created MobilityApp application in the Application tree window.
- 2. Select Import Project.

### Figure 21 Import Project

<u>File</u> Edit	/iew <u>B</u> uild <u>D</u> ebug <u>T</u>	ools	Wind	wob	Help
D 🖻 🔳	1 m m   %		1	+	$\rightarrow \mid \in$
Application	Files		×		
🔁 MobilityA ⊕- 💽 Mol	nn 🔊 Find in Files				
E D Sch	New	•			
	Install	•			
👔 Sec	Build Application				
	Deployment	E			
	Import Project				
	Properties				

3. On the Import Project – New Project screen, click Browse next to the Directory: field and browse to the <bea>\weblogic81\mobileaware\samples\BEAWorkshop\ directory.

#### Figure 22 Import New Project

Web Services         Web User Interface         Web Veroject         Web Service Project         Web Copy into Application directory.	
Web User Interface Web Service Project Web Service Project Bro Copy Into Application directory.	
irectory: Bro	1.0
Processing Bro	
Copy into Application directory.	wse
ame:	
lease select a project type and a project directory to import.	

4. Select restaurantWeb and click Open.

### Figure 23 Locate restaurantWeb

🔁 Webl	ogic Workshop				×
Look In:	BEAWorkshop		· 🖬		
in res	taurantWeb		5000 CO.		
res	aurainweb_arcer				
<u>N</u> ame:	C:\bea-81sp3\mobileawar	e\samples\BEAW	'orkshop\restaurant	Web	
<u>T</u> ype:	All Files				<b>T</b>
				Open	Cancel

- 5. Back on the Import Project New Project screen, the Directory will now be filled in, with a default Name for the application set to restaurantWeb. Select Web Project from the right hand pane.
- 6. Make sure that Copy into Application Directory is checked.
- 7. Click Import.

Figure 24 Import restaurantWeb project

Directory: -81sp3\mobile	Web Service Project eaware\samples\BEAWorkshop\restaurantWeb E directory.	rowse
Schema Web Services Web User Interface	Process Project  Schema Project  Web Project	
Business Logic EJB Portal Process	Datasync Project     @ EJB Project     Java Project     Portal Web Project	

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You can also choose to import the restaurantWeb\_After project to see the final version. The BEA Sample Workshop Mobility Project Guide document explains the steps to mobilize the restaurantWeb project to reach the same results as in the restaurantWeb\_After project.

### Creating the Portal Domain and Creating the Sample Mobility Portal Project

## Introduction

This section describes creating a BEA Portal Domain, creating a new application, and then creating a Sample Mobility Portal Project in the newly created domain using the supplied template.

# Create MobilityPortal Domain

To create the MobilityPortal Domain:

1. Launch the BEA WebLogic Configuration wizard from the Windows Start menu.

Choose Start > Programs > <BEA install directory> > Configuration Wizard

If you have BEA Workshop open, you can also launch it from the tools menu.

Choose Tools > WebLogic Server > Configuration Wizard

2. Select Create a new WebLogic configuration and click Next.

Figure 25 Configuration Wizard – Create a new WebLogic Configuration



3. On the Select a Configuration Template screen, select Basic WebLogic Portal Domain and click Next.

Figure 26	Configuration	Wizard – Basic	WebLogic	Portal [	Domain
-----------	---------------	----------------	----------	----------	--------

emplates	Description
<ul> <li>WebLogic Configuration Templates</li> <li>BEA</li> <li>WebLogic Server Examples Domain</li> <li>Avitek Medical Records Sample Domain</li> <li>Basic WebLogic Platform Domain</li> <li>Basic WebLogic Integration Domain</li> <li>Basic WebLogic Portal Domain</li> <li>Basic WebLogic Server Domain</li> <li>Basic WebLogic Workshop Domain</li> </ul>	Create a basic WebLogic Portal domain, without installing sample applications. Domains created from this template will support the WebLogic Server, WebLogic Workshop and WebLogic Portal runtime functionality, including support for J2EE applications, Web applications, Web Services, custom controls and portals. Use domains created from this template for development of WebLogic Portal applications.
	Author
	BEA Systems, Inc.

4. On the Choose Express or Custom Configuration screen, select Express and click Next.

### Figure 27 Configuration Wizard – Express Configuration



5. On the Configure Administrative Username and Password screen enter weblogic for username and weblogic for password and click Next.

#### Figure 28 Configuration Wizard – User Name and Password

BEA WebLogic Configu	ation Wizard	
Configure Administrati Create a user automatically assign This user is the default administra	ve Username and Password ad to the Administrative Itole. or used to start development mode servers.	<i>%</i> bea
💍 Disgard Changes		
User Name *	weblogic	
User Password *	*****	
Confirm User Password *	******	
Description	This user is the default administrator.	
Eyk Help		Previous Next

- 6. In the Configure Server Start Mode and Java SDK screen, select Development Mode within the WebLogic Configuration Startup Mode box.
- 7. Select the Sun JDK within the Java SDK Selection area and click Next.

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Figure 29 Configuration Wizard – Start Mode

8. On the Create WebLogic Configuration screen, set the Configuration Name to MobilityPortal and click Create.

Figure 30 Configuration Wizard – Mobility Portal



9. The configuration wizard will now create the domain. When it completes, click Done on the Creating Configuration screen.

Figure 31 Configuration Wizard – Creating MobilityPortal Configuration



**Note:** When you create a domain using the BEA WebLogic Configuration Manager, a default PointBase database is installed. The MobileAware Device Database will be installed into this database as described in Installing the MobileAware Device Database.

## Create the MobilityPortalApp Application

To create the MobilityPortalApp application:

1. To create a new application in Workshop, choose

file > new > application



#### Figure 32 Create New Application

- 2. From the New Application window:
  - a. Select Portal Application

Note: Do not select Default Application as done earlier.

- b. Click Browse next to the Directory field and browse the Domains directory, selecting your newly created MobilityPortal domain.
- c. Enter MobilityPortalApp in the Name field this is the application where you will import the sample mobility portal application.
- d. Click Browse next to the Server field and select the config.xml file inside the newly created MobilityPortal domain.
- 3. Once you have filled in the fields as above, click Create and the application will be created.

🗋 All		🚮 Default Application	-				
📄 Portal		The second secon					
Tutorial		i Portal Application					
		🚰 Process Application					
		🚮 Tutorial: Java Control					
		🚮 Tutorial: Page Flow	-				
-							
<u>)</u> irectory:	.sp3\user_p	rojects\domains\MobilityPortal\MobilityPortalApp Br	owse				
lame:	Mobility	PortalApp					
jerver:	C:\bea-81s	p3\user_projects\domains\MobilityPortal\   ▼   Br	owse				
Curahaaa		- the state of the	de la l				
Creates a Datasync	project called	'data' at META-INF/data. Portal Web Projects can be	oe a added				

#### Figure 33 Create Portal Application Dialog

Now that you have created a new Domain and a new Portal Application, you can import the sample Workshop mobility portal project.

### **Creating the Sample Workshop Mobility Portal Project**

When MobileAware Interaction Server, BEA WebLogic Edition was installed, a Sample Mobile Portal Project template was created. Create the sample Workshop mobility portal project using this template as described below and then refer to the *BEA Sample Mobility Portal Guide* for an explanation of the features of the sample portal.

- 1. Right click the newly created MobilePortalApp application in the Application tree window.
- 2. Select New > Project.

#### MobileAware Interaction Server Installation Guide

🛬 MobilityPorta	alApp - BEA Webl	Logio	: Worksh	ор		
<u>File E</u> dit <u>V</u> iew	Portal Build De	ebug	<u>T</u> ools <u>W</u>	indow	Help	
🗅 😂 🖩 🏉	6 6 6	Ē	+	$\rightarrow$   -	<b>∉</b> ₹	<b>N</b>
Application Fil	es	×				
🔁 MobilityPortal/ 🕀 💼 dat. 🔊 F	App Find in Files					
	New	•				
Sec 1	install	۱				
E	Juild Application					
	lean Application					
Ĩ	Deployment					
1	import Project					
E	properties					
1						

### Figure 34 New Portal Project

3. On the "New Project" screen, select "MobileAware" and "Sample Mobile Portal."

### Figure 35 Import New Project

Directory: Browse	<ul> <li>Difference</li> <li>Business Logic</li> <li>Business Logic</li> <li>Portal</li> <li>Process</li> <li>Schema</li> <li>Web Services</li> <li>Web User Interface</li> </ul>	Datasync Project     Datasync Project     Dava Project     Protal Web Project     Process Project     Schema Project     Web Project     Web Project	
	Directory:	ectory.	Browse

- 4. Enter "maportal" in the Project Name field.
- 5. Click Create.

Figure	36	Create	New	Project
--------	----	--------	-----	---------

ew Project 🛛 🔀
All     Sample Mobile Portal     Business Logic     EJB     MobileAware
Portal  Process Schema Web Services Web User Interface
Project name: maportal A sample Mobile Portal Web Project. Must be added to a Portal Application. Also requires MobileAware Device Database to be installed in the Application's domain (Table SHebility Noted Must MobileAware Database)
(1005-24100ally-2416call HobileAware Database). Create Cancel

- 6. Make sure that Copy into Application Directory is checked.
- 7. Click Import.

The BEA Sample Mobility Portal Guide document explains the features of the maportal sample project.

### Installing the MobileAware Device Database

The MobileAware Interaction Server requires a database, the MobileAware Device Database, to store device profile information. The Mobility Extension for BEA WebLogic Workshop enables installation of the Device Database directly into a local PointBase database from the Tools menu in BEA WebLogic Workshop.

### Installing the Device Database from BEA Workshop Tools Menu

When you created the Mobility and MobilityPortal domains using the BEA WebLogic Configuration Manager, a PointBase database was installed. The MobileAware Device Database can be installed in this database as follows:

 Start the WebLogic server for this domain: Choose Tools > WebLogic Server > Start WebLogic Server

<u>File Edit View Portal Build Debug</u>	Tools Window Help	_			
D 🛱 🖩 🕼 🗠 🖉 🖬	WebLogic <u>S</u> erver		Start WebLogic Server	Ctrl+Shift+S	
Application Files	WebLogic Integration	•	Stop WebLogic Server	Ctrl+Shift+T	
MobilityPortalApp	Project Properties	×	Deployment	•	
🕀 💼 data	Application Properties		Configuration Wizard		
🛨 直 maportal	IDE Properties		We <u>b</u> Logic Builder		
Modules     Librarian	Security	•	WebLogi <u>c</u> Console		
Security Roles	Mobility	•	DataSource Viewer		
		-	Portal Administration		
			Portal Cache <u>M</u> anager		
			Server Properties		
		7			

#### Figure 37 Start BEA WebLogic Server

2. Once the server has started, install the MobileAware Device Database: Choose Tools > Mobility > Install MobileAware Device Database

#### Figure 38 Install MobileAware Device Database



3. A confirmation pop-up box will be presented, read and click OK to continue.

4. Once successfully installed a popup window will appear with "The MobileAware Device database has been installed ", click OK to continue.

Next, you will need to configure device emulators into your Workshop environment. This is described in the next section.

# **Configuring the Device Emulators**

## Introduction

This section describes how to configure the emulators for use within BEA Workshop. You can use the device emulators to see how the mobilized content will look on a particular device (for example phones, PDAs). Several emulators are available for download free of charge on the Internet. This section describes how to configure the emulators for use within BEA Workshop.

 To configure the tools and emulators for usage within the BEA Workshop environment, select IDE properties from the Tools Menu. Choose Tools > IDE Properties





- 2. Now configure the emulators:
  - a. Select the Emulators tab.
  - b. Select WAP1.x emulator by browsing to the appropriate emulator executable file.
    - **Note:** MobileAware recommends using the Openwave Emulator, which can emulate WAP 1.x and XHTML-MP devices. However, emulators from Nokia, Ericsson, or others can also be utilised. If using an Openwave Emulator, select the OSDK62http.exe (for version 6.2) or the OSDK61http.exe (for version 6.1) in

the installation directory where you have installed the emulator, for example C:\Program Files\Openwave\SDK 6.1\program\http.

- c. Select WAP2.0 emulator by browsing to the appropriate emulator executable file.
- d. Select PDA emulator by browsing to the appropriate emulator executable file.
- You can find a MobileAware PDA emulator at

 $<\!\!bea\!\!>\!\!weblogic 81\mbox{mobileaware\cols}\mbox{mobileaware\PDA.exe}.$ 

 Alternatively, to set up Microsoft Internet Explorer to function as a PDA emulator, browse to your iexplore.exe in the PDA emulator text box as can be seen in the diagram below and check the box next to Override device recognition to force PDA content.

#### Figure 40 Setting up Internet Explorer as a PDA Emulator

eneral	WAP 1.x emulator	
or Printing	C:\Program Files\Openwave\SDK 6.2.2\program\http\OSDK62http	Browse
ntax Coloring r ger Views	Override device recognition to force WAP 1.x content * WAP 2.x (XHTML MP) emulator	
	C:\Program Files\Openwave\SDK 6.2.2\program\http\OSDK62http	Browse
ibraries	Override device recognition to force XHTML MP content *  PDA emulator	
ware Everix	C:\Program Files\Internet Explorer\IEXPLORE.EXE	Browse
vage How Portal Services Proxy Server Tools	Override device recognition to force PDA content *	
le Flow tal Services xy Server Is	Override device recognition to force PDA content * * Select this checkbox if the browser selected does not automatically emulate the desired device. For example, you can use Internet Explo to emulate a PDA but you must override the default device recognitio which would otherwise deliver "full browser" content to it. Similarly, you can use some WAP 2 emulators for WAP 1.x content. Other emulators/browsers	rer n
w rvices rver	Override device recognition to force PDA content * * Select this checkbox if the browser selected does not automatically emulate the desired device. For example, you can use Internet Explo to emulate a PDA but you must override the default device recognitio which would otherwise deliver "full browser" content to it. Similarly, you can use some WAP 2 emulators for WAP 1.x content. Other emulators/browsers	rer n Add
w rvices rver	Override device recognition to force PDA content *  * Select this checkbox if the browser selected does not automatically emulate the desired device. For example, you can use Internet Explo to emulate a PDA but you must override the default device recognitio which would otherwise deliver 'full browser' content to it. Similarly, you can use some WAP 2 emulators for WAP 1.x content. Other emulators/browsers	rer n Add Configur
Flow I Services - Server	Override device recognition to force PDA content *  * Select this checkbox if the browser selected does not automatically emulate the desired device. For example, you can use Internet Explo to emulate a PDA but you must override the default device recognitio which would otherwise deliver 'Full browser' content to it. Similarly, you can use some WAP 2 emulators for WAP 1.x content. Other emulators/browsers	rer n Add Configur

### **Next Steps**

Now that you have successfully installed the MobileAware Interaction Server, BEA WebLogic Edition, you are almost ready to begin mobilizing your own web applications and portal projects.

Before you do, it is recommended that you go through the BEA Sample Workshop Mobility Project Guide and the BEA Sample Mobility Portal Guide. The BEA Sample Workshop Mobility Project Guide provides a step-by-step exercise in mobilizing a sample workshop application, while the BEA Sample Mobility Portal Guide illustrates the features of a Mobilized BEA Portal Framework.

### Installing the MobileAware Interaction Server on Sun Solaris, RedHat Linux, or HP-UX

This section explains the installation procedure for installing the MobileAware Interaction Server, BEA WebLogic Edition for BEA WebLogic Platform 8.1 on Sun Solaris, Redhat Linux, and HP-UX 11.

## Introduction

The BEAMAInteractionServer814-<platform>.bin installation program is used to install the MobileAware Interaction Server, BEA WebLogic Edition on.

- For RedHat Linux, use the BEAMAInteractionServer814-linux.bin installer.
- For Sun Solaris, use the BEAMAInteractionServer814-solaris.bin installer.
- For HP-UX, use the BEAMAInteractionServer814-hpux.bin installer.The installer installs the MobileAware Interaction Server, BEA WebLogic Edition into an existing BEA WebLogic installation at <br/>
  weblogic81/mobileaware.

### License

You must update your BEA License with the MobileAware Interaction Server, BEA WebLogic Edition product component details. The required product component information is available for download from the BEA Web Site at the same location as the software installers.

Once you have updated your license, you will be able to develop and test mobile-device ready content. If you have a developer or evaluation BEA License, the software installer will install an evaluation version of the MobileAware Device Database enabling testing on a number of popular

MobileAware Interaction Server Installation Guide

device emulators as well as a number of popular mobile and PDA devices. A production license must be present to install and utilise the full MobileAware Device Database.

Note: An invalid license will result in HTML being delivered.

Please contact a BEA or MobileAware sales representative if you wish to extend your evaluation or developer license or upgrade to a production license.

## Installation Pre-requisites

### **Software Pre-Requisites**

The following software must be installed prior to installing the MobileAware Interaction Server, BEA WebLogic Edition:

- A supported Operating System, from the following list:
  - Sun Solaris 8, 9
  - RedHat Linux 2.1, 3.0
  - HP-UX 11
- BEA WebLogic Platform 8.1SP2, SP3, or SP4
- A Database, from the following list:
  - Oracle 9i
  - PointBase 4.4
  - SQL Server 2000
  - Postgres 7.3.2+
  - Sybase Adaptive Server Enterprise 12.5
  - IBM DB2 Universal Database 8.1
- Internet Browser:
  - Netscape 4.75 or higher, or
  - Internet Explorer 5 or higher
- Java JDK / JRE 1.4.1 or 1.4.2 should be on the search path, with JAVA\_HOME set correctly

### License

Ensure that you have updated your BEA License with the MobileAware Interaction Server, BEA WebLogic Edition product component details. The required license component information can be downloaded from the same download page as the software installer.

# Installation Procedure for Sun Solaris, RedHat Linux, and HP-UX

- 1. Download the appropriate platform installer:
- For RedHat Linux, use the BEAMAInteractionServer814-linux.bin installer.
- For Sun Solaris, use the BEAMAInteractionServer814-solaris.bin installer.
- For HP-UX, use the BEAMAInteractionServer814-hpux.bin installer.
- 2. Open an xterm, telnet, or console window and run the appropriate platform MobileAware Interaction Server installation program as identified above.
- 3. The first stage of the installation is the Introduction. Please read the text and ensure that the installation environment meets the stated requirements. Press <Enter> to continue.
- 4. Next is the License Agreement. Read the license agreement text and enter the value Y if you accept the terms of the license agreement, or the value N if you do not. Note: this will cancel the installation after prompting you to confirm cancellation.
- 5. When Locate WebLogic Installation is shown, you must enter an absolute path to the location of the BEA WebLogic installation where the MobileAware Interaction Server should be installed. If BEA WebLogic is already installed, the installer will display the most recent <br/>
  bea\_home> by default. Press <Enter> to accept the default location as shown.

Alternatively, if you want to install the MobileAware Interaction Server into a different BEA WebLogic installation, enter the absolute path to the location of the appropriate BEA WebLogic installation and press <Enter>. Note: You must have write and execute permissions for the chosen installation folder.

- Next is the Pre-Installation Summary. Review the displayed installation configuration settings to ensure they are correct. If you are satisfied with the configuration settings, press <Enter> to continue. Otherwise, type back to return to a previous step and modify the configuration settings.
- 7. The Installation Complete message will be displayed following a successful install. Press <Enter> to exit the installer.

## Installing the MobileAware Device Database

Please refer to the section Installing the Device Database with the Device Installer for instructions on installing the MobileAware Device Database.

# Configuration of a MobileAware Interaction Server-Enabled Web Application

Please refer to" Deploying an Application" in the *MobileAware Interaction Server, BEA WebLogic Edition Administration Guide* for details on:

- Creating the deployment environment for a mobilized web application
- Configuring the MobileAware Interaction Server servlet filter
- Configuring the web application's Web Deployment Descriptor (web.xml file) for the MobileAware Interaction Server servlet filter

# Post-Installation Configuration and Use of the Administration Tools

Please refer to "Administration Console" in the *MobileAware Interaction Server, BEA WebLogic Edition Administration Guide* for a description of how to use the Administration Console to manage device profiles in the MobileAware Device Database.

Please refer to "Working With Diagnostics" in the *MobileAware Interaction Server, BEA WebLogic Edition User Guide* for information on configuring and using the Diagnostics tools.

# **Installing the Device Database**

## Introduction

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The MobileAware Interaction Server requires a database, the MobileAware Device Database, to store device profile information. Currently, the MobileAware Device Database supports Oracle, MySQL, Postgres, PointBase, and SQL Server 2000, IBM DB2 Universal Database, and Sybase Adaptive Server Enterprise databases.

The following installation procedures assume an Oracle, MySQL, Postgres, PointBase, SQL Server 2000, IBM DB2, or Sybase database has already been installed and the administrator performing the installation is familiar with database creation.

The MobileAware Device Database can alternatively be configured to operate directly from an XML file. For configuration of the MobileAware Device Database to operate directly from an XML file, please refer to "Configuration of XML File-based MobileAware Device Database."

After completing the MobileAware Device Database installation below, configure the mis.properties settings as described in the next chapter.

## About the Device Installer Tool

MobileAware has developed a GUI tool called the Device Installer that is used to perform both initial installations of the MobileAware Device Database, as well as installations of the MobileAware provided quarterly updates to the MobileAware Device Database.

**Note:** Note: Individual additions and modifications to an installed MobileAware Device Database are made using the Administration Console, which is documented in the MobileAware Interaction Server, BEA WebLogic Edition Administration Guide.

The Device Installer tool itself allows customers to:

- Create a new MobileAware Device Database from a MobileAware provided flat DeviceRepository.xml file
- Backup a customer's existing MobileAware Device Database to an XML file
- Update a customer's existing MobileAware Device Database with the MobileAware provided quarterly updates (the quarterly updates are also provided as a flat DeviceRepository.xml file)

When using the Device Installer tool to install the MobileAware provided quarterly updates, the tool:

- Backs up the customer's existing device database to an XML file
- Detects and stores customer modifications to their existing device database
- Installs the new MobileAware provided device database
- Presents the customer with a list of modifications and allows the customer to re-apply each of them or accept the values provided in the device database update

### Locating the Device Installer Tool

The Device Installer tool can be found under the installation directory that was selected during the installation:

MobileAware Interaction Server Installation Guide

• For Windows, this will be:

```
<install_directory>\applications\DeviceInstaller\MISDeviceInstaller.exe
```

• For UNIX, this will be:

<install\_directory>/applications/DeviceInstaller/MISDeviceInstaller

The "Install Complete" screen at the end of the MobileAware Interaction Server installation contained the full path name for the install directory for reference.

**Note:** The Device Installer is a GUI based application that must be run on a system with a windowing environment.

You may therefore run it in a Unix / Linux environment running X Windows, or on a Microsoft Windows environment.

The Device Installer connects directly to the database within which the Device Database is to be installed, so it is not necessary to run it on the same platform on which the MobileAware Interaction Server was installed.

### **Pre-configuration for Support of IBM Universal DB2**

If using the Device Installer Tool to install the MobileAware Device Database on IBM Universal DB 2, please copy the following driver files from <ibm DB2 install\_directory>\SQLLIB\java (for example, C:\Program Files\IBM\SQLLIB\java) to <install directory>\applications\DeviceInstaller:

- db2jcc.jar
- db2jcc\_license\_cu.jar

This will enable the Device Installer to install and/or update the MobileAware Device Database into a configured IBM Universal DB2 database.

### **Pre-configuration for Support of SQL Server 2000**

If using the Device Installer Tool to install the MobileAware Device Database on SQL Server 2000, please download the necessary JDBC drivers from:

http://www.microsoft.com/downloads/details.aspx?FamilyID=86212d54-8488-481d-b46b-af29 bb18e1e5&displaylang=en

and then copy the following files to <install\_directory>\applications\DeviceInstaller:

- msbase.jar
- mssqlserver.jar

• msutil.gar

This will enable the Device Installer to install and/or update the MobileAware Device Database into a configured Microsoft SQL Server 2000 Database.

# Device Installer Scenario 1: Installing a New MobileAware Device Database

The steps used to install a new MobileAware Device Database are shown below, along with sample screenshots:

- Create a database for the MobileAware Device Database and note the connection details. To complete the device database installation, you will need the database type, the database URL, and a valid user name and password for accessing the database.
- 2. Run MISDeviceInstaller.exe (Windows) or MISDeviceInstaller (Unix/Linux platforms) and the Device Installer Usage screen will appear. Click Continue.

Figure 41 Device Installer Usage Screen

🔬 MobileAware Device Database Installer Usage	×
Device Installer Usage	
The Device Installer will guide you through the steps involved in installing a new MobileAware Device Databa	se
Initial Installation	
<ol> <li>Load the Device XML file, provided by MobileAware into the Device Installer</li> <li>Review the device data using the device XML Browser</li> <li>Create and populate the device tables</li> </ol>	
Upgrading an Existing Installation	
<ol> <li>Backup existing database to an XML file.</li> <li>Detect customer modifications.</li> <li>Replace existing data with new data set (including selected user modifications).</li> </ol>	
	-
C Do not show usage again	Continue

3. The MobileAware Device Database Options screen will appear. Click Load File to install the MobileAware Device Database from the DeviceRepository.xml file included with the MobileAware Interaction Server installer.





4. When the Select MIS Device XML file screen appears, choose a DeviceRepository.xml file to install and click Open. The DeviceRepository.xml file included with the MobileAware Interaction Server installer will be shown as the default for a new installation.

Figure 43 Select MobileAware Device XML File Screen

🙈 Select Mobi	leAware Device	XML file		2
Look in:	C Desktop		- 🦻	12 🖽 📰
My Recent D Desktop	DeviceRe	pository.xml		
My Documents	s			
My Computer	File nome:			Onen
	rile name:			

5. The DeviceRepository.xml screen shows the DeviceRepository.xml to be installed. The file has been converted into a hierarchical structure and provided as a preview of the MobileAware Device Database to be installed. Inherited values for each device can also be displayed by checking the show inherited values box. Click Begin Installation to proceed.

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1obileAware Device Tree	Device Attributes: root		
⊞…∕ý root	Attribute Name	Attribute Value	
	AcceptHeader		
	AccessKeyDisplayed	false	
	AccessKeySupported	true	
	AlternateLineService	false	
	AudioFormatSupported		
	BluetoothSupported	false	
	Brand	UNDEFINED	
	BrowserType		
	CDC1xSupported	false	
	CLDC1xSupported	false	
	CharsetSupported	UTF-8	
	ColorDepth	1	
	ColorGamma	1	
	ColorType	black/white	
	ContractContiguousWhites	false	
	DTM		
	DeliveringHTML	false	
	DeliveringIHTML	false	
	DeliveringWML	false	-
	Show Inherited Values	le 1	

#### Figure 44 DeviceRepository.xml Screen

- 6. In the Database Connection Details screen, select the type of database from the Database Type drop down menu and enter the database connection details in the format shown. The Database URL, User Name, and Password should be available from your Database Administrator (DBA). The format for these URL's is displayed in the dialog and is also described below:
  - For Oracle, set to: jdbc:oracle:thin:@<oracle\_host>:<oracle\_port>:<oracle\_database\_name>
  - For MySQL, set to: jdbc:mysql://<mysql-server-ip:port>/
     <db-name>?user=<connect-user>&password=<connect-password>
- For Postgres, set to: jdbc:postgresql://<postgres\_machine>:<postgres\_port>/<postgres\_database\_name>
- For PointBase, set to: jdbc:pointbase:server://<ip address>:<port>/<SID>
- ForSybase ASE, set to: jdbc:sybase:Tds:<ip\_address>:<port>/SID

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- For IBM DB2, set to: jdbc:db2://<ip\_address>:<port>/SID
- For Microsoft SQL Server 2000: jdbc:bea:sqlserver\_host>:<sqlserver\_port>;databaseName=<sqlserver\_database \_\_name>
- When using WebLogic database connection pool, set to:

jdbc:weblogic:pool:<poolname>

Example: deviceDB.url: jdbc:oracle:thin:@oracle\_host:1521:mySID

7. Click Connect. Once a successful connection is made the details are stored and will be remembered the next time the tool is run.

#### Figure 45 Example of PointBase Connection Details screen

Database Type	
PointBase	
Database URL	
idbc:pointbase:server://localhost	:9093/workshop
Database User Name	
weblogic	
Database Password	
****	

8. A progress bar shows the progress of the data installation.

#### Figure 46 Creating Device Table Progress Bar

<b>Creating Devi</b>	ceParent Table	×
	26%	

9. Click OK on the Database Installation Complete screen and then click Exit on the Device Installer screen to close the tool.

### Figure 47 Database Installation Complete



### Device Installer Scenario 2: Using MobileAware's Online Update Service to Update the MobileAware Device Database

The steps used to connect to MobileAware's Online Update Service to update an existing MobileAware Device Database are described below.

1. Run MISDeviceInstaller.exe (Windows) or MISDeviceInstaller (Unix/Linux platforms) and the Device Installer Usage screen will appear. Click Continue.

Figure 48 Device Installer Usage Screen



2. The MobileAware Device Database Options screen will appear. Click Connect to connect to MobileAware's online update service for the latest available DeviceRepository.xml file.



#### Figure 49 MobileAware Device Database Options

- 3. On the Database Connection Details screen, select the type of database from the Database Type drop down menu and enter the database connection details in the format shown. The Database URL, User Name, and Password should be available from your Database Administrator (DBA). The format for these URL's is displayed in the dialog and is also described below:
- For Oracle, set to: jdbc:oracle:thin:@<oracle\_host>:<oracle\_port>:<oracle\_database\_name>
- For MySQL, set to: jdbc:mysql://<mysql-server-ip:port>/ <db-name>?user=<connect-user>&password=<connect-password>
- For Postgres, set to: jdbc:postgresql://<postgres\_machine>:<postgres\_port>/<postgres\_database\_name>
- For PointBase, set to: jdbc:pointbase:server://<ip\_address>:<port>/<SID>
- For Sybase ASE, set to: jdbc:sybase:Tds:<ip\_address>:<port>/SID
- For IBM DB2, set to: jdbc:db2://<ip\_address>:<port>/SID

- For Microsoft SQL Server 2000: jdbc:bea:sqlserver://<sqlserver host>:<sqlserver port>;databaseName=<sqlserver database name>
- When using WebLogic database connection pool, set to:

jdbc:weblogic:pool:<poolname>

**Example**: deviceDB.url: jdbc:oracle:thin:@oracle host:1521:mySID

- 4. Click Connect. Once a successful connection is made the details are stored and will be remembered the next time the tool is run
- 5. If you successfully connect and are authorized to receive the latest DeviceRepository.xml file, it will be downloaded and the next screen you will see is the Downloaded File screen shows the DeviceRepository.xml to be installed. The file has been converted into a hierarchical structure and provided as a preview of the MobileAware Device Database to be installed. Inherited values for each device can also be displayed by checking the show inherited values box. Click Begin Installation to proceed.

#### \_ × 🔊 Downloaded File XML Browser MobileAware Device Tree Device Attributes: root Attribute Value Attribute Name AcceptHeader \* AccessKeyDisplayed false AccessKeySupported true AlternateLineService false AudioFormatSupported BluetoothSupported false UNDEFINED Brand BrowserType CDC1xSupported false CLDC1xSupported false CharsetSupported UTF-8 ColorDepth ColorGamma 1 black/white ColorType ContractContiguousWhites... false DTM DeliveringHTML false DeliveringIHTML false DeliveringWML false Ŧ Show Inherited Values Begin Installation 6. Re-enter Database Connection Details (may not be required):

#### Figure 50 Downloaded File Screen

On the Database Connection Details screen, select the type of database from the Database Type drop down menu and enter the database connection details in the format shown. The Database URL, User Name, and Password should be available from your Database Administrator (DBA). The format for these URL's is displayed in the dialog and is also described below:

- For Oracle, set to: jdbc:oracle:thin:@<oracle\_host>:<oracle\_port>:<oracle\_database\_name>
- For MySQL, set to: jdbc:mysql://<mysql-server-ip:port>/ <db-name>?user=<connect-user>&password=<connect-password>
- For Postgres, set to: jdbc:postgresql://<postgres machine>:<postgres port>/<postgres database name>
- For PointBase, set to: jdbc:pointbase:server://<ip\_address>:<port>/<SID>
- For Sybase ASE, set to: jdbc:sybase:Tds:<ip\_address>:<port>/SID
- For IBM DB2, set to: jdbc:db2://<ip address>:<port>/SID
- For Microsoft SQL Server 2000: jdbc:bea:sqlserver\_host>:<sqlserver\_port>;databaseName=<sqlserver\_database \_name>
- When using WebLogic database connection pool, set to:

jdbc:weblogic:pool:<poolname>

Example: deviceDB.url: jdbc:oracle:thin:@oracle\_host:1521:mySID

- 7. Click Connect. Once a successful connection is made the details are stored and will be remembered the next time the tool is run.
- 8. If an existing MobileAware Device Database is detected, the Backup Existing Database to XML file screen is shown and you are required to backup the existing device database to an XML file before proceeding. The created backup XML file will have the same structure as the DeviceRepository.xml file. This backup XML file will be used for detecting modifications later in the upgrade process. Enter a name for the XML file and click Backup.



### Figure 51 Backup Existing Device Database Screen

9. A progress bar monitors the progress of the backup process. This may take up to 2 minutes depending on the connection.

#### Figure 52 Backup Progress Bar



10. Detect Custom Devices/Attributes:

The backupDeviceRepository.xml and DeviceRepository.xml files are compared to allow a list of modifications to be presented to the user.

If no modifications are identified, the existing database will be replaced with the selected Device XML file. When the Device Installation Compete window appears, click OK and then click Exit to close the DeviceInstaller tool.

- 11. If odifications are detected, you will be asked to review the modifications before proceeding with the installation.
- 12. Once the detection process completes, a dialog box similar to the one shown below will appear showing the delta between the DeviceRepository.xml file to be installed and the existing MobileAware Device Database. You can now choose to re-apply any modifications that have been detected in the existing MobileAware Device Database by selecting the appropriate Retain Custom Entry checkboxes.

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Device Name	Attribute Name	Customer Value	MobileAware Value	Retain Custom Entry	
Fricason	TextColumns	33	10		
hicsson	TextRows	3	4	E	
SharpGXI98	UAProt HardwarePlatform Mo.	GX098	TQ-GX-198	Ē	
SamsungSGHA288	HTTPMetaDataString	SGH-A288	A288	E	- 12
Nostel/UP4	UsableHeightPixets	60	Not Defined	E	
Alcatel/UP4	UsableV/idthPixels	91	Not Defined		- 125
PanasonicGD67	UAProf HardwarePlatform Sc	15x4	15x6		
kokia6800	UAProf./VapCharacteristics	64000	5600	E	
Doera/Nokis9210i	HTTPMetaDataString	EPOC&, Nokia/Series-9200	EPOC8Nokia/Series-9200		
Actorole//60i	HTTPMetaDataString	V60m	V60		
ActorolaC330	HTTPMetaDataString	te02	TA02		
4B/1.2	HTTPMetaDataString	MIB8emp(1.2	MB81.2		
MB/2.0	HTTPMetaDataString	MIB8amp;2.0	MB82.0		-1

### Figure 53 Comparison of Existing Download Data with New Data

13. Create the database

After selecting any data that you wish to retain, click **Create Database**. You will see a Warning dialog box indicating that the MobileAware Device Database data will be replaced with the selected data set. Click **Yes** button to proceed with the installation.

#### Figure 54 Overwrite Data Screen

Device Name	Attribute Name	Customer Value	MobleAware Value	Retain Custom Entry	
ricsson	TextColumns	33	10		
ricsson	TextRows	3	4		
harpGX098	LIAProf HardwarePlatform Mo	GX198	TQ-GX-I98		
amsungSGHA288	HTTPMetaDataString	SGH-A288	A288		
Vicatet/UP4	UsableHeightPixets	60	Not Defined		
UcateI/UP4	UsableWidthPixels	91	Not Defined		101
anasonicGD67	LIAProf HardwarePlatform.Sc	. 15x4	15×6		
lokia6800	UAProf MapCharacteristics	64000	5600		
pera/Nokia9210i	HTTPMetaDataString	EPOC&Nokia/Series-9200	EPOC8Nokia/Series-9200		
lotorola//60i	HTTPMetaCate Cate	kees.	kan d		
lotorole/C330	HTTPMetal Warning		×		

14. A progress bar shows the progress of the data installation.

### Figure 55 Creating Device Table Progress Bar



15. Click OK on the Database Installation Complete screen and then click Exit on the Device Installer screen to close the tool.

#### Figure 56 Database Installation Complete



# Device Installer Scenario 3: Updating an Existing MobileAware Device Database from an XML File

The steps used to update an existing MobileAware Device Database from an XML file are shown below, along with sample screenshots:

1. Run MISDeviceInstaller.exe (Windows) or MISDeviceInstaller (Unix/Linux platforms) and the Device Installer Usage screen will appear. Click Continue.

### Figure 57 Device Installer Usage Screen



2. The MobileAware Device Database Options screen will appear. Click Load File to install the MobileAware Device Database from a local DeviceRepository.xml.



#### Figure 58 MobileAware Device Database Options

3. Then the Select MIS Device XML file screen appears, choose a DeviceRepository.xml file to install and click Open. The DeviceRepository.xml file included with the MobileAware Interaction Server installer will be shown as the default for a new installation.

#### Figure 59 Select MobileAware Device XML File Screen

🙈 Select Mobile	eAware Device	XML file		×
Look in:	🚞 Desktop		•	🤌 📁 📰 📰
My Recent D Desktop Desktop My Documents	DeviceRe	pository.xml		
My Network	File name:			Open
	Files of type:	XML Files	1	Cancel

4. The DeviceRepository.xml screen shows the DeviceRepository.xml to be installed. The file has been converted into a hierarchical structure and provided as a preview of the MobileAware Device Database to be installed. Inherited values for each device can also be displayed by checking the show inherited values box. Click Begin Installation to proceed.

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1obileAware Device Tree	Device Attributes: root		
⊞…∕ý root	Attribute Name	Attribute Value	
	AcceptHeader		
	AccessKeyDisplayed	false	
	AccessKeySupported	true	
	AlternateLineService	false	
	AudioFormatSupported		
	BluetoothSupported	false	
	Brand	UNDEFINED	
	BrowserType		
	CDC1xSupported	false	
	CLDC1xSupported	false	
	CharsetSupported	UTF-8	
	ColorDepth	1	
	ColorGamma	1	
	ColorType	black/white	
	ContractContiguousWhites	false	
	DTM		
	DeliveringHTML	false	
	DeliveringIHTML	false	
	DeliveringWML	false	-
	Show Inherited Values		

#### Figure 60 DeviceRepository.xml Screen

- 5. On the Database Connection Details screen, select the type of database from the Database Type drop down menu and enter the database connection details in the format shown. The Database URL, User Name, and Password should be available from your Database Administrator (DBA). The format for these URL's is displayed in the dialog and is also described below:
  - For Oracle, set to: jdbc:oracle:thin:@<oracle\_host>:<oracle\_port>:<oracle\_database\_name>
  - For MySQL, set to: jdbc:mysql://<mysql-server-ip:port>/
     <db-name>?user=<connect-user>&password=<connect-password>
- For Postgres, set to: jdbc:postgresql://<postgres\_machine>:<postgres\_port>/<postgres\_database\_name>
- For PointBase, set to: jdbc:pointbase:server://<ip address>:<port>/<SID>
- For Sybase ASE, set to: jdbc:sybase:Tds:<ip\_address>:<port>/SID

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- For IBM DB2, set to: jdbc:db2://<ip\_address>:<port>/SID
- For Microsoft SQL Server 2000: jdbc:bea:sqlserver\_host>:<sqlserver\_port>;databaseName=<sqlserver\_database \_\_name>
- When using WebLogic database connection pool, set to:

jdbc:weblogic:pool:<poolname>

Example: deviceDB.url: jdbc:oracle:thin:@oracle\_host:1521:mySID

6. Click Connect. Once a successful connection is made the details are stored and will be remembered the next time the tool is run.

#### Figure 61 Example of PointBase Connection Details screen

	Database Type PointBase
	Database URL
	jdbc:pointbase:server://localhost:9093/workshop
í	Database User Name
	weblogic
1	Database Password
	****

7. If an existing MobileAware Device Database is detected, the Backup Existing Database to XML file screen is shown and you are required to backup the existing device database to an XML file before proceeding. The created backup XML file will have the same structure as the DeviceRepository.xml file. This backup XML file will be used for detecting modifications later in the upgrade process. Enter a name for the XML file and click Backup.



### Figure 62 Backup Existing Device Database Screen

8. A progress bar monitors the progress of the backup process. This may take up to 2 minutes depending on the connection.

#### Figure 63 Backup Progress Bar



9. Detect Custom Devices/Attributes:

The backupDeviceRepository.xml and DeviceRepository.xml files are compared to allow a list of modifications to be presented to the user.

If no modifications are identified, the existing database will be replaced with the selected Device XML file. When the Device Installation Compete window appears, click OK and then click Exit to close the DeviceInstaller tool.

- 10. If modifications are detected, you will be asked to review the modifications before proceeding with the installation.
- 11. Once the detection process completes, a dialog box similar to the one shown below will appear showing the delta between the DeviceRepository.xml file to be installed and the existing MobileAware Device Database. You can now choose to re-apply any modifications that have been detected in the existing MobileAware Device Database by selecting the appropriate Retain Custom Entry checkboxes.

Octoon         Fed.Game         32         0          1           Vector         FedRove         3         4         0.00         1         1           Vector         FedRove         3         4         0.00         1         1           Vector         FedRove         3         4         0.00         1         1           Vector         Status         50         50.00         1         <	Octoon         TectOwn         33         0         Image: Constraint on the March No.         0         Image: Consthe Mar	Device Name	Attribute Name	Customer Value	MobileAware Value	Retain Custom Entry	
Interview         3         4         1           Res/XMB         Model Market	Interview         3         4         1           Res/XMI         JAMOV Markey affects         0         4         1           Res/XMI         JAMOV Markey affects         0         1         0         1           Res/XMI         JAMOV Markey affects         0         No         1         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0	riceson	TextColumns	33	10		
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### Figure 64 Comparison of Existing Data with New Data

12. Create the database

After selecting any data that you wish to retain, click Create Database. You will see a Warning dialog box indicating that the MobileAware Device Database data will be replaced with the selected data set. Click **Yes** button to proceed with the installation.

#### Figure 65 Overwrite Data Screen

	PAINDLE NOTIC	Customer value	MUDICAWORD VOID	Retain Custom Entry	
ricsson	TextColumns	33	10		
ricsson	TextRows	3	4		
harpGX098	LIAProf HardwarePlatform Mo	GXI98	TQ-GX-98		100
amsungSGHA288	HTTPMetaDataString	SGH-A288	A268		100
Vicatet/UP4	UsableHeightPixets	60	Not Defined		
UcateI/UP4	UsableWidthPixels	91	Not Defined		101
anasonicGD67	LIAProf HardwarePlatform.Sc	15x4	15x6		100
lokia6800	UAProf MapCharacteristics	64000	5600		
pera/Nokia9210i	HTTPMetaDataString	EPOC8amp;Nokia/Series-9200	EPOC8Nokia/Series-9200		1991
lotorola//60i	HTTPMetaCate Paris -	kana.	keen al		1011
lotorole/C330	HTTPMetal Warning	and the second	×		100
		<u>Yes</u> No			

13. A progress bar shows the progress of the data installation.

### Figure 66 Creating Device Table Progress Bar



14. Click OK on the Database Installation Complete screen and then click Exit on the Device Installer screen to close the tool.

#### Figure 67 Database Installation Complete



# Device Installer Scenario 4: Backup an Existing MobileAware Device Database to an XML File

The steps used to backup an existing MobileAware Device Database are shown below, along with sample screenshots:

1. Run MISDeviceInstaller.exe (Windows) or MISDeviceInstaller (Unix/Linux platforms) and the Device Installer Usage screen will appear. Click Continue.

#### Figure 68 Device Installer Usage Screen



2. The MobileAware Device Database Options screen will appear. Click **Backup** to backup the installed MobileAware Device Database to an XML file.



#### Figure 69 MobileAware Device Database Options

3. On the Backup Existing Database to XML file screen, enter a name for the XML file and click Backup to backup the existing device database to an XML file.

#### Figure 70 Backup Existing Device Database Screen

4. A progress bar monitors the progress of the backup process. This may take up to 2 minutes depending on the connection.

### Figure 71 Backup Progress Bar

Backup in Progress		×
	9%	

5. When the backup completes, exit the tool by select File > Exit.

### **Configuring mis.properties Settings**

The mis.properties file must be updated to reflect the Device Database connection details. This enables the MIS to connect to the Device Database to retrieve device profiles for use during content transformation.

**Note:** By default, MIS is configured to communicate to the standard BEA WebLogic Database Connection Pool. If you are using the standard BEA WebLogic Database Connection Pool, you can skip this section. You are only required to configure the mis.properties settings manually if you want to use an alternative database or you have a custom domain that is not using the default BEA WebLogic Database Connection Pool.

### The mis.properties File

The configuration file used by the MobileAware Interaction Server that contains the device database connection settings is the mis.properties file.

This file can be found in the WEB-INF/classes folder of the web application (e.g. for the sample Mobility Portal application it is located at:

<bea>\weblogic81\mobileaware\samples\BEAWorkshop\maportal\WEB-INF\classes\)

It is a plain text file that can be edited in any text editor.

This section describes configuration settings for the mis.properties file.

### **Configuring the MobileAware Device Database Connection**

The following device database properties must be configured in order for MobileAware Interaction Server to successfully communicate with the MobileAware Device Database when using an external database:

### MobileAware Interaction Server Installation Guide

Property	Description
deviceDB.driver	Location of the JDBC driver to be used by MobileAware interaction Server to gain access to the database.
	This property also has the effect of informing MobileAware Interaction Server which database it is connected to.
	For Oracle, set to: oracle.jdbc.driver.OracleDriver
	For MySQL, set to: org.gjt.mm.mysql.Driver
	For Postgres, set to: org.postresql.Driver
	For PointBase, set to: com.pointbase.jdbc.jdbcUniversalDriver
	For SQL Server (with MIS deployed on BEA WebLogic only), set to: weblogic.jdbc.sqlserver.SQLServerDriver
	For Sybase ASE set to: com.sybase.jdbc2.jdbc.SybDriver
	For IBM DB2 Universal Database set to: com.ibm.db2.jcc.DB2Driver
	To configure MIS to use the BEA WebLogic database connection pool: weblogic.jdbc.pool.Driver
	Example: deviceDB.driver:oracle.jdbc.driver.OracleDriver

deviceDB.url	The URL to use to access the Device Database.
	For Oracle, set to: jdbc:oracle:thin:@ <oracle_host>:<oracle_port>:<oracle_database_na me&gt;</oracle_database_na </oracle_port></oracle_host>
	For MySQL, set to: jdbc:mysql:// <mysql-server-ip:port>/ <db-name>?user=<connect-user>&amp;password=<connect-password></connect-password></connect-user></db-name></mysql-server-ip:port>
	For Postgres, set to: jdbc:postgresql:// <postgres_machine>:<postgres_port>/<postgres_data base_name&gt;</postgres_data </postgres_port></postgres_machine>
	For PointBase, set to: jdbc:pointbase:server:// <pointbase_machine>:<pointbase_port>/cajun</pointbase_port></pointbase_machine>
	For SQLServer (with MIS deployed on BEA WebLogic only), set to: jdbc:bea:sqlserver:// <sqlserver_host>:<sqlserver_port>;databaseName =<sqlserver_database_name></sqlserver_database_name></sqlserver_port></sqlserver_host>
	For Sybase ASE set to: jdbc:sybase:Tds: <ip_address>:<port>/SID</port></ip_address>
	For IBM DB2 Universal Database set to: jdbc:db2:// <ip_address>:<port>/SID</port></ip_address>
	When using WebLogic database connection pool, set to: jdbc:weblogic:pool: <poolname></poolname>
	Example: deviceDB.url: jdbc:oracle:thin:@oracle_host:1521:mySID
deviceDB.user	Username used by MobileAware Interaction Server to access the database server when user and password authentication is required.
	Note: For MySQL, this property is left blank.
	Example: deviceDB.user: user
deviceDB.password	Password of user used by MobileAware Interaction Server to access the database server when user and password authentication is required.
	Note: For MySQL, this property is left blank.
	Example: deviceDB.password: password
deviceDB.maxDBConnect ions	A numeric value indicating the number of concurrent database connections in the database pool. This is used to control the number of concurrent database connections and licenses required by the MobileAware Interaction Server. Defaults to 10. See "About Connection Pools" below for more information. Example: deviceDB maxDBConnections: 10
	Limiter active D. mar Decimentals. 10

deviceDB.waitTime	A numeric value indicating (in milliseconds) the time to wait for a connection from the database pool. Defaults to 5000. Example: deviceDB.waitTime: 5000
deviceDB.increment	A numeric value indicating the number of connections to add to the pool if there are no connections currently available. If the maximum number of connections in the pool has been reached then no new connections will be added to the pool. Defaults to 1 Example: deviceDB.increment: 1

### About Connection Pools

A dynamic web site often generates HTML pages from information stored in a database. Each request for a page results in a database access. Connecting to a database is time consuming since the database must allocate communication and memory resources as well as authenticates the user and set up the corresponding security context. Setting up the individual connections can become a bottleneck.

Establishing the connection once and using the same connection for subsequent requests can therefore dramatically improve the performance of a database driven web application. Connection pooling is a technique used to avoid the overhead of making a new database connection every time an application or server object requires access to a database. Rather than making and breaking connections as required, a "pool" of database connections is maintained by the system on the server. When MobileAware Interaction Server needs a database connection, it simply requests an available one from the pool - if none is available, a new one is created & added to the pool.

The connection pool not only grows to specified limits, but also contracts as required, closing connections that have not been used for a specified time. This avoids taking up system resources by simply holding connections that are not currently required. This also handles databases which "time-out" their connections, and prevents handing a "stale" connection to an application object.

### **Configuration of XML File-based MobileAware Device Database**

To configure MIS to use an XML File-based MobileAware Device Database instead of connecting to an external database (e.g. Oracle, MySQL) where the MobileAware Device Database has been installed, the database settings must be defined properly in the mis.properties file associated with the web application.

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 Locate the mis.properties file for your web application (e.g. for the sample Mobility Portal application, it is located at: <bea>\weblogic81\mobileaware\samples\BEAWorkshop\maportal\WEB-INF\classes\) and open it in a text editor.

```
#
# Device Repository Type
 -----
#
# This setting indicates whether the MobileAware Device Database is
# deployed as an XML file or installed into a JDBC database.
# Possible values are: xml and db
#
# If not specified, db is assumed.
#deviceRepositoryType: xml
3. Uncomment the last line so that it now reads:
deviceRepositoryType: xml
4. Look for the XML Device Repository File Location setting in the mis.properties file,
  similar to below:
#
# XML Device Repository File Location
# ------
# This setting indicates the location of the Device Repository XML file
# This setting must be set to the location of the xml file or the
# classpath will be checked (see deviceXML.resourceName)
#
# Example:
```

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```
#C\:\\bea81sp3\\weblogic81\\mobileaware\\database\\DeviceRepository.xml
#
#deviceXML.location:
```

```
C\:\\bea81sp3\\weblogic81\\mobileaware\\database\\DeviceRepository.xml
```

 Uncomment the 'deviceXML.location:' line and change the indicated location to the actual location of the DeviceRepository.xml file. The DeviceRepository.xml file included with MobileAware Interaction Server is located at:

<bea>\weblogic81\mobileaware\database\DeviceRepository.xml. For example,

```
deviceXML.location:
```

C\:\\bea81sp3\\weblogic81\\mobileaware\\database\\DeviceRepository.xml

6. Look for the XML Device Repository Resource Name setting in the mis.properties file, similar to below

```
# XML Device Repository Resource Name
```

# -----# This setting indicates the name of the Device Repository XML file that
# should be used in the classpath.
#
# The default is "/DeviceRepository.xml"
#
# Example: deviceXML.resourceName: /DeviceRepository.xml
deviceXML.resourceName: /DeviceRepository.xml

- If the XML file to be used is not named DeviceRepository.xml, uncomment the 'deviceXML.resourceName:' line and change the indicated resource name to reflect the actual name of the XML file to be used. By default, DeviceRepository.xml is assumed.
- 8. Save the mis.properties file.
- 9. In production environment, you must now use the BEA WebLogic Administration Console to redeploy your web application. In a development environment, the web application can simply be redeployed directly from within BEA WebLogic Workshop.

### **Next Steps**

Now that you have successfully installed the MobileAware Interaction Server, BEA WebLogic Edition, you are almost ready to begin mobilizing your own web applications and portal projects.

Before you do, it is recommended that you go through the BEA Sample Workshop Mobility Project Guide and the BEA Sample Mobility Portal Guide. The BEA Sample Workshop Mobility Project Guide provides a step-by-step exercise in mobilizing a sample workshop application, while the BEA Sample Mobility Portal Guide illustrates the features of a Mobilized BEA Portal Framework.

### MobileAware Interaction Server Installation Guide