JD Edwards EnterpriseOne

Deployment Server Reference Guide for IBM i

9.2

JD Edwards EnterpriseOne Deployment Server Reference Guide for IBM i

9.2

Part Number: E55540-10

Copyright © 2011, 2024, Oracle and/or its affiliates.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

| | Preface | i |
|---|--|----|
| 1 | Introduction | 1 |
| | Understanding This Guide | |
| | Understanding the Tools Release on the Deployment Server | 1 |
| | Understanding Server Manager and This Guide | 2 |
| | Understanding Certifications | 3 |
| | Microsoft Windows Security | 4 |
| | Minimizing Locked Files | 4 |
| 2 | Setting Up a Development Client Installer on the Deployment Server | 7 |
| | Understanding the JD Edwards Clients (Development and Web) | 7 |
| | Understanding that Installers are Not Backward Compatible | 8 |
| | Configuring Installers | 9 |
| | Updating Installers | 22 |
| | Administer JD Edwards Clients' (Development and Web) Installers | 24 |
| | Creating the Web Development Feature (Tools Releases Prior to 9.2.9) | 24 |
| | Creating an Installation Package (Tools Releases Prior to 9.2.9) | 32 |
| 3 | Working With the Full Client Package | 35 |
| | Understanding the Full Client Package | 35 |
| | Creating the Full Client Package | 35 |
| 4 | Working With SnapShot on the Deployment Server | 37 |
| | Understanding SnapShot | 37 |
| | Prerequisites | 39 |
| | Using SnapShot on the Deployment Server | 40 |
| | Renaming an Environment | 44 |
| | Manually Backing Up Files and Settings | 46 |
| | Set Logging for SnapShot Using the Registry | 46 |
| | | |



| | Troubleshooting | 47 |
|----|---|-----|
| 5 | Rebuilding Business Functions for Vertex Header Files (for Vertex users only) | 53 |
| | Rebuilding Business Functions for Vertex Header Files (for Vertex users only) | 53 |
| 6 | Building Application Business Functions | 55 |
| | Building Application Business Functions | 55 |
| 7 | Re-Linking Business Functions | 57 |
| | Re-Linking Business Functions | 57 |
| 8 | Appendix A - Working With Multiple Tools Release Foundations | 59 |
| | | 59 |
| 9 | Appendix B - Manual Cleanup of an Uninstalled Oracle Database | 93 |
| | Manual Cleanup of an Uninstalled Oracle Database | 93 |
| 0 | Appendix C - Data by Pathcode | 95 |
| | | 95 |
| 11 | Appendix D - Updating the JRE/JDK Used by the Installers | 101 |
| | Updating the JRE/JDK Used by the Installers | 101 |



Preface

Welcome to the JD Edwards EnterpriseOne documentation.

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Access to Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info Or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

Related Information

For additional information about JD Edwards EnterpriseOne applications, features, content, and training, visit the JD Edwards EnterpriseOne pages on the JD Edwards Resource Library located at:

http://learnjde.com

Conventions

The following text conventions are used in this document:

| Convention | Meaning | |
|---------------------|---|--|
| Bold | Boldface type indicates graphical user interface elements associated with an action or terms defined in text or the glossary. | |
| Italics | Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values. | |
| Monospace | Monospace type indicates commands within a paragraph, URLs, code examples, text that appears on a screen, or text that you enter. | |
| > Oracle by Example | Indicates a link to an Oracle by Example (OBE). OBEs provide hands-on, step- by-step instructions, including screen captures that guide you through a process using your own environment. Access to OBEs requires a valid Oracle account. | |





1 Introduction

Understanding This Guide

This guide describes the JD Edwards EnterpriseOne Deployment Server with Tools Release 9.2 and Applications Release 9.x. This *Deployment Server Reference Guide* supersedes the guides from previous JD Edwards EnterpriseOne tools releases known as the *Tools Release Reference Guide*, and before that the *Tools Release Installation Guide*. All information in this guide is relevant to actions unique to and performed on the Deployment Server. This includes setup of the Development Client, which is deployed from the Deployment Server.

You should always check the Oracle Technology Network for revisions to this guide subsequent to the initial release, which coincides with the General Availability of JD Edwards EnterpriseOne Tools Release 9.2.

Note: The JD Edwards Applications Release 9.2 is installed on the Deployment Server using a separate installer. Refer to "Chapter 3, Installing the Deployment Server," in the *JD Edwards EnterpriseOne Applications Release 9.2 Installation Guides*. To access the guides, refer to the Installation and Upgrade Documentation Library at this link:

http://docs.oracle.com/cd/E24902_01/nav/installation.htm

Understanding the Tools Release on the Deployment Server

Although the process to install the Deployment Server itself remains via an Oracle Universal Installer (OUI), for Release 9.2, you must use Server Manager to install the latest tools release on the Deployment Server. The following is the list of procedures that are documented in the *JD Edwards EnterpriseOne Server Manager Guide*, which is located in the *Installation* and *Upgrade* libraries for JD Edwards EnterpriseOne on the Oracle Technology Network (OTN) at this link:

http://docs.oracle.com/cd/E61420_01/index.htm

Tip: The links to the Server Manager Guide that are provided in the below steps are "live" only in the HTML version of this guide.

1. Install a Server Manager Management Agent on the Deployment Server. This should be the 32-bit Microsoft Windows version of the JD Edwards EnterpriseOne Management Agent.

Refer to this chapter in the Server Manager Guide:

Install a Management Agent

2. Register the Deployment Server with the Server Manager Console.

Refer to this chapter in the Server Manager Guide:

Register a JD Edwards Deployment Server as a New Managed Instance



3. Obtain and deploy the Tools Release software component for the Deployment Server. Refer to this chapter in the Server Manager Guide:

Managed Software Components

Understanding Server Manager and This Guide

Note: Management of *JD Edwards EnterpriseOne* Tools Release 8.96 or earlier must be done using the tools provided with those releases. *Server Manager* cannot be used to manage any *JD Edwards EnterpriseOne* tools release prior to 8.97.

For more information, see the JD Edwards EnterpriseOne Tools Server Manager Guide :

The JD Edwards EnterpriseOne Server Manager tool provides:

- Web Based System Management
 - You can securely access and manage your *JD Edwards EnterpriseOne* installation from anywhere using a standard web browser.
- Remote Deployment and Upgrades
 - You can install, uninstall, and update your *JD Edwards EnterpriseOne* servers regardless of their physical location or platform.
- Remote Operational Control
 - You can start and stop any of your *JD Edwards EnterpriseOne* servers, Oracle J2EE application servers, or supported third party J2EE application servers directly from the *Management Console*.
- Secure Administrative Tasks
 - Server Manager permits you to specify which existing JD Edwards EnterpriseOne users have access to the Management Console, control which JD Edwards EnterpriseOne servers the user may view, and specify which administrative tasks the user may perform on those servers.
- Configuration Management
 - *Server Manager* provides a web-based interface for managing the configuration of all managed servers. The application presents each configuration item along with integrated help describing the configuration setting.

Note: Beginning with the availability of *Server Manager*, it is strongly advised that all changes to configuration files (such as jde.ini, jas.ini, jdbj.ini, jdelog.properties, etc.) for any *JD Edwards EnterpriseOne* server managed by *Server Manager* be accomplished using only the *Management Console* interface of *Server Manager*. In addition to providing usability improvements, using Server Manager reduces the risk of introducing configuration errors by providing dropdowns that contain only valid values where applicable. Further, the tool provides a useful *#unique_6/unique_6_Connect_42_BHAICJHF* for any modifications made to configurations using *Server Manager*.

Configuration Comparison

You can use *Server Manager* to compare the configuration of two or more servers to identify configuration differences. You can compare configurations through the *Management Console* application regardless of the



platform or location of the actual *JD Edwards EnterpriseOne* server. You can also compare individual servers with the default configuration of the corresponding server groups to which the servers belong.

Audit History

Server Manager maintains a history of changes made to the managed servers. This includes a history of each configuration change, each server start and stop, and each tools release update, including the user that performed the change or operation. The *Management Console* application provides mechanisms to query and view the audit history that is maintained.

Integrated EnterpriseOne Software Management

Use *Server Manager* to centrally maintain all your *JD Edwards EnterpriseOne* server tools releases, including the ability to copy the software to the remote server machines.

Logical Server Grouping

Server Manager allows you to group servers with a similar purpose. These groups can include any of the server types such as Enterprise Server, HTML Web Server, and so on. A default, or template, configuration is maintained for each server group.

Application Release Independence

Server Manager is delivered with every JD Edwards EnterpriseOne Tools Release 8.97 and greater and is compatible with any supported JD Edwards EnterpriseOne application release beginning with Application Release 8.9 through the currently supported release. No electronic software updates (ESUs) are required to support Server Manager.

Self-Contained Installation

The installation of *Server Manager* delivers all components that are required by the *Management Console* application. There are no third party requirements regardless of your existing or intended middleware topology (for example, WebLogic Server, WebSphere Application Server, or no application server).

Tools Release Independence

Newer versions of the *Server Manager* application will continue to support the management of earlier tools releases back to the initial general availability release of *JD Edwards EnterpriseOne* Tools Release 8.97.

Understanding Certifications

Customers must conform to the supported platforms for the release as detailed in the Oracle JD Edwards EnterpriseOne Certifications. In addition, JD Edwards EnterpriseOne may integrate, interface, or work in conjunction with other Oracle products. Refer to the following link for cross-reference material in the Program Documentation for Program prerequisites and version cross-reference documents to assure compatibility of various Oracle products.

 $http: \verb|\www.oracle.com| corporate \verb|\contracts| index.html|$

Refer to the Certifications tab on My Oracle Support and search for this product:

JD Edwards EnterpriseOne Deployment Server

For additional information on using Certifications, refer to this document on My Oracle Support (https://support.oracle.com):

Certifications FAQ for JD Edwards EnterpriseOne [Article ID 1525328.1]



https://support.oracle.com/epmos/faces/DocumentDisplay?id=745831.1

Microsoft Windows Security

When installing, uninstalling/deinstalling, or running any JD Edwards EnterpriseOne product on Microsoft Windows operating systems, be sure to follow the below guidelines. This includes saving or restoring or deleting snapshots of EnterpriseOne using the SnapShot program. Not following these guidelines may cause unexpected errors to occur.

1. Registry and directory permissions

Be sure that the user account into which you are signing into Microsoft Windows is in the Administrators group or a similar group that provides permissions to write to and read from registry hives (for example, HKEY_LOCAL_MACHINE\SOFTWARE) and disk subdirectories (a:\windows) that are restricted from standard Windows users.

2. "Run as administrator"

When starting any JD Edwards Enterprise One executable such as Change assistant, ESU setup, EnterpriseOne, SnapShot, client install, you must right click on the executable and choose **Run as administrator**. Failing to do this might result in incomplete or failed processes.

If a file that you need to edit and then save is located in a directory with access restricted by UAC, you will need to right-click on your text editor program's icon, select **Run as administrator**, and open the file from within the editor. If you do not follow those steps and Microsoft's User Access Control (UAC) is turned on, you may not be able to save the modified file.

3. Remote Desktop connections

When connecting to a remote Microsoft Windows computer using Microsoft's Remote Desktop, run Remote Desktop with the "/admin" flag. Not running with this setting may cause subtle, hard-to-explain errors in the program. You can do this using these steps:

- a. Right-click on the Remote Desktop shortcut.
- **b.** Select properties.
- c. Click on the Shortcut tab.
- **d.** At the end of the Target field, add a space, a forward slash, and "admin" (without the quotes) to the end of the Target. The screen shot sample below illustrates this setting:

Minimizing Locked Files

To minimize the possibility that the Tools Release installer or SnapShot might fail due to locked files, follow these guidelines:

- 1. Exit from all running programs. You can use Microsoft Windows Task Manager to verify that the programs are stopped. In particular, be sure that EnterpriseOne, JDeveloper, and SQL Developer are stopped, but other programs may also need to be stopped. Exceptions to this rule include the database service(s) which should be running.
- **2.** Verify that no files in the Deployment Server's installation directory or subdirectories are open in any file editors.



- **3.** Verify that neither the installation directory nor any of its subdirectories are open in Microsoft Windows Explorer.
- **4.** Verify that no Command Prompt window has as its current working directory either the Deployment Server's installation directory or any of its subdirectories.





2 Setting Up a Development Client Installer on the Deployment Server

Understanding the JD Edwards Clients (Development and Web)

The JD Edwards EnterpriseOne Development Client (also known as a Web Development Client, "Fat" Client, Administrative Client, Windows client, or Workstation) contains components that run as standard Microsoft Windows applications (for example, Active Console, Form Design Aid (FDA), and Report Design Aid (RDA)) and components that run in a web browser.

Note: This document uses the following terminology when discussing JD Edwards EnterpriseOne clients:

Web Client

Components that run in a web browser.

Development Client

Composed of standard Windows components and Web Client.

The Web Client part of the Development Client runs inside an Application Server, with the user interface displayed in a browser. For Tools Releases prior to 9.2.9, the supported Application Servers installed on the Development Client machine are:

- Oracle WebLogic Server (WLS)
- IBM WebSphere Application Server (WAS)

The version of the Web Client is known by either of these names:

- WLSH4A (WebLogic Server HTML for Applications)
- WASH4A (WebSphere Server HTML for Applications)

Note: If you are not using WLSH4A or WASH4A, you can ignore references to it in the subsequent sections.

Prior to Tools Release 9.2.9, the Application Server such as WebLogic or WebSphere was installed on the Development Client computer to run the Web Client in a browser. With Tools Release 9.2.9, EnterpriseOne connects to a remote Application Server (such as, WebLogic or WebSphere) installed on a separate server known as a Development HTML Server.

The information needed to connect to this remote Development HTML Server is configured by the EnterpriseOne administrator in the jde.ini on the Deployment Server. This jde.ini is copied to the Development Client machine during installation of the EnterpriseOne Development Client software

This chapter describes the setup of the JD Edwards EnterpriseOne Development Client installer and installation package on an EnterpriseOne Deployment Server. This setup on the Deployment Server must be done before a user can install a



JD Edwards EnterpriseOne Development Client on a workstation. The installation package specifies the components to install and may or may not include the Web Client.

If you are on Tools Releases prior to 9.2.9, you can find instructions on how to install Web Clients for both Application Servers and their WLSH4A and WASH4A features, as well as the installation of the WebLogic and WebSphere Application Servers in the <u>JD Edwards EnterpriseOne Development Client Installation Guide</u>.

Note: These instructions assume that all prerequisites for running EnterpriseOne on the Deployment Server are installed.

Note: The EnterpriseOne Deployment Server requires that the E1Local Oracle database be installed on the Deployment Server machine. Some Tools Releases also require that the E1Local Oracle database be installed on the Development Clients as well. Starting with Tools Release 9.2.5.0, the E1Local Oracle database will not be used on the Development Clients and can be uninstalled. It is important to note that the database is still required on the Deployment Server.Installation of the JD Edwards Deployment Server provides installers for these components that can be installed on a Development Client:

- Development Client
- WLSH4A (Tools Releases prior to 9.2.9)
- WASH4A (Tools Releases prior to 9.2.9)

These installers are based on the Oracle Universal Installer (OUI) which is used to install several JD Edwards EnterpriseOne and non-JD Edwards Oracle products such as Oracle databases and Oracle Middleware. The JD Edwards EnterpriseOne administrator must perform a small number of configuration steps to prepare these installers for running on EnterpriseOne workstations.

Understanding that Installers are Not Backward Compatible

OUI is not compatible between OUI versions. This means that if the OUI version changes between Tools Releases, all the Development Client installations must be uninstalled and new installations of a full package using the new OUI must be performed. When a Development Client is uninstalled or saved by using SnapShot, the WLSH4A or WASH4A is automatically removed or saved.

See *Editing oraparam.ini for the Development Client Installer During an Update or Upgrade* for information about the OUI versions.

The following examples are of a few configurations that are not allowed:

- A package being installed with one version of OUI cannot be installed on an existing Development Client installation that used a different version of OUI.
- A WLSH4A or WASH4A installed with one version of OUI cannot be installed on an existing Development Client installation that used a different version of OUI.



- The OUI versions of Development Client, WLSH4A, and WASH4A installers cannot be different.
- The OUI installers' directories cannot contain any files from previous OUI installers.

Note: Avoid the above scenarios on the Development Client by saving with SnapShot or uninstalling the existing Development Client before attempting to install a full package using the new installers.

Configuring Installers

The following sections detail the requisite administrative tasks for the JD Edwards EnterpriseOne Administrator upon installation of the Deployment Server or update of the Deployment Server:

- Update the oraparam.ini for the Development Client Installer
- Update the orangement ini for the WLSH4A Installer (Tools Releases prior to 9.2.9)
- Update the orangement for the WASH4A Installer (Tools Releases prior to 9.2.9)
- Edit the jde.ini template.
- Configure the Web Client (Tools Release 9.2.9)
- Copy JDBC Drivers and the tnsnames.ora file to the Deployment Server.
- Update the Database Drivers in the льд.ini file.
- Update the InstallManager.htm File
- Understand the Local Oracle Database Installer
- Additional OEE Setup

Note: If you are not using a WLSH4A or WASH4A installer, you can ignore references to it in the following steps.

Configuring oraparam.ini for the Development Client Installer

The Development Client installer for Tools Releases prior to 9.1 uses the Exemplar installer framework. Installation parameters for Exemplar-based installers are stored in the <code>install.inf</code> file. When the installer was migrated to use Oracle Universal Installer (OUI) with Tools Release 9.1, the installation parameters were moved to the <code>oraparam.ini</code> file.

When updating a Deployment Server to Tools Release 9.2, the <code>oraparam.ini</code> file is not updated from the existing install.inf file (for Exemplar-based installers) or the oraparam.ini file (for OUI-based installers prior to Tools Release 9.2.3.4). In those cases, you must manually update some settings in the Tools Release 9.2 <code>oraparam.ini file</code> as described in this section.

Starting with Tools Release 9.2.3.4, Server Manager performs most of the updates to the oraparam.ini file automatically when updating from Tools Releases 9.2.0.0 and later. However, some initial settings must be configured as listed below:

The oraparam. ini file resides with the OUI executable setup.exe in this directory:

<E1 dep svr install directory>\OneWorld Client Install\install

The oraparam.ini file follows the standard format of ini files for Microsoft Windows and it contains sections with names inside square brackets ([]) and key/value pairs. The keys and their values are separated by equals signs (=).



Editing the Initial oraparam.ini for the Development Client Installer

When a Deployment Server is first installed, a few settings in the oraparam.ini for the Development Client must be configured manually. Follow these steps:

- 1. Navigate to the directory:
 - <E1_dep_svr_install_directory>\OneWorld Client Install\install
- 2. Make a backup copy of oraparam.ini.
- 3. Edit the oraparam.ini and set the values from the below table:

If the section or keys in the table do not exist in your oraparam.ini, you must add them along with the values indicated. Be sure that any paths on the Deployment Server can be reached from the Development Client machine. Do not use local paths; rather use the Uniform Naming Convention (UNC) format for paths such as:

\\<deployment server name>\<release>\xxx

| Section | Key | Value Description | Value Example | |
|-----------------|------------------------|--|------------------|----------|
| [Oracle] | DEFAULT_HOME_ LOCATION | Default Oracle Home path into which Development Client will be installed. Users can change this path at installation time. | E920 | |
| [Oracle] | DEFAULT_HOME_NAME | Default Oracle Home name of path into which Development Client will be installed. Users can change this name at installation time. | JDE_E920_C1 | ient. |
| [FileLocations] | PackageInfs | UNC path to package inf files. | \ \depsvr2\E9 | 20\pack |
| [FileLocations] | currentReleaseMaster | UNC path including deployment server and share. | \ \depsvr2\E9 | 920 |
| [FileLocations] | JdbcPath | Optional - Used when installing WLSH4A or WASH4A (Tools Releases prior to 9.2.9) or the Development Client (Tools Release 9.2.9) - UNC path to JDBC files - If not specified, installer looks for a directory called JDBC. - Tools Releases prior to 9.2.9: This JDBC directory is expected up one level from the directory containing the setup.exe file for WLSH4A or WASH4A. - Tools Release 9.2.9: This JDBC directory is expected to be under OneWorld Client Install\ThirdParty. | \ \depsvr2\ES |)20\My_J |
| [Attributes] | DataByPathCode | (Tools Releases prior to 9.2.9) Optional - Used when installing WLSH4A or WASH4A to create the datasource name that points to local data. | 1 | |



| -17 | Deploymen | | ment Server |
|--------------|-----------|--|---------------|
| | | =1 means that local data is specific to individual pathcodes. | |
| | | =0 means that local data is shared among all installed pathcodes. | |
| | | For details, see the appendix of this guide entitled <i>Data by Pathcode</i> . | |
| [Attributes] | LocalDS | (Tools Releases prior to 9.2.9) Optional - Used when installing WLSH4A or WASH4A to create the datasource name that points to local data | OneWorldLocal |
| | | For details, see the appendix of this guide entitled <i>Data by Pathcode</i> . | |

Editing the oraparam.ini for the Development Client Installer During an Update or Upgrade

Prior to Tools Release 9.2.3.4, you must update the oraparam.ini for the Development Client installer using the following steps.

Starting with Tools Release 9.2.3.4, Server Manager automatically performs the following steps when updating or upgrading the Deployment Server to a new Tools Release.

1. Navigate to the directory:

<El_dep_svr_install_directory>\OneWorld Client Install\install

- 2. Make a backup copy of oraparam.ini.
- 3. Edit the oraparam.ini and set the values from the below table based on the Tools Release:

| TOOLS RELEASE | OUI_VERSION | BOOTSTRAP_COMPS | |
|-------------------|-------------|--|-----------|
| 9.2.9 and later | 12.2.1.6.0 | "oracle.swd.oui:12.2.1.6.0,oracle.swd.ou | ui.core: |
| 9.2.3.4 and later | 12.2.0.6.0 | "oracle.swd.oui:12.2.0.6.0,oracle.swd.o | oui.core |
| 9.2.3.3 | 12.2.0.9.0 | "oracle.swd.oui:12.2.0.9.0,oracle.swd.o | oui.core: |
| 9.2.2.6 and later | 12.2.0.2.2 | "oracle.swd.oui:12.2.0.2.2,oracle.swd.o | oui.core: |
| Prior to 9.2.2.6 | 11.2.0.2.0 | "oracle.swd.oui:11.2.0.2.0,oracle.swd.o | oui.core: |

Note: The version of OUI decreased (downgraded) with Tools Release 9.2.3.4.

4. Save the oraparam.ini file.

Note: As noted in the table, the versions of the JRE or JDK that are provided with the Development Client installer may not be the latest versions available. See the appendix of this guide entitled *Updating the JRE/JDK Used by the Installers*.



Updating the oraparam.ini for the WLSH4A Installer (Tools Releases Prior to 9.2.9)

If you are not using WLSH4A, skip this section.

Prior to Tools Release 9.2.3.4, you must update the oraparam.ini for the WLSH4A installer using the following steps.

Starting with Tools Release 9.2.3.4, Server Manager automatically updates oraparam.ini for the WLSH4A installer when updating or upgrading the Deployment Server to a new Tools Release.

- 1. Navigate to this directory:
 - <E1_dep_svr_install_directory>\OneWorld Client Install\ThirdParty\WebDevFeature\WLSH4A\install
- 2. Make a backup copy of oraparam.ini.
- 3. Edit the oraparam.ini and set the values from the below table based on the Tools Release:

| TOOLS RELEASE | OUI_VERSION | BOOTSTRAP_COMPS | |
|-------------------|-------------|--|-----------|
| 9.2.3.4 and later | 12.2.0.6.0 | "oracle.swd.oui:12.2.0.6.0,oracle.swd. | oui.core |
| 9.2.3.3 | 12.2.0.9.0 | "oracle.swd.oui:12.2.0.9.0,oracle.swd. | pui.core: |
| 9.2.2.6 and later | 12.2.0.2.2 | "oracle.swd.oui:12.2.0.2.2,oracle.swd. | oui.core |
| Prior to 9.2.2.6 | 11.2.0.2.0 | "oracle.swd.oui:11.2.0.2.0,oracle.swd. | pui.core: |

Note: The version of OUI decreased (downgraded) with Tools Release 9.2.3.4.

4. Save the oraparam.ini file.

Note: As noted in the table, the versions of the JRE or JDK that are provided with the Development Client installer may not be the latest versions available. See the appendix of this guide entitled *Updating the JRE/JDK Used by the Installers*.

Updating the oraparam.ini for the WASH4A Installer (Tools Releases Prior to 9.2.9)

If you are not using WASH4A, skip this section.

Prior to Tools Release 9.2.3.4, you must update the oraparam.ini for the WASH4A installer using the following steps.

Starting with Tools Release 9.2.3.4, Server Manager automatically updates the oraparam.ini for the WASH4A installer when updating or upgrading the Deployment Server to a new Tools Release.

- 1. Navigate to this directory:
 - <El dep svr install directory>\OneWorld Client Install\ThirdParty\WebDevFeature\WASH4A\install
- 2. Make a backup copy of oraparam.ini.



3. Edit the oraparam.ini and set the values from the below table based on the Tools Release:

| TOOLS RELEASE | OUI_VERSION | BOOTSTRAP_COMPS | |
|-------------------|-------------|---|-----------|
| 9.2.3.4 and later | 12.2.0.6.0 | "oracle.swd.oui:12.2.0.6.0,oracle.swd.o | oui.core |
| 9.2.3.3 | 12.2.0.9.0 | "oracle.swd.oui:12.2.0.9.0,oracle.swd.o | pui.core: |
| 9.2.2.6 and later | 12.2.0.2.2 | "oracle.swd.oui:12.2.0.2.2,oracle.swd. | pui.core |
| Prior to 9.2.2.6 | 11.2.0.2.0 | "oracle.swd.oui:11.2.0.2.0,oracle.swd.o | pui.core: |

Note: The version of OUI decreased (downgraded) with Tools Release 9.2.3.4

4. Save the oraparam.ini file.

Note: As noted in the table, the versions of the JRE or JDK that are provided with the Development Client installer may not be the latest versions available. See the appendix of this guide entitled *Updating the JRE/JDK Used by the Installers*.

The installer in this folder is Obsolete: <E1_dep_svr_install_directory>\OneWorld Client Install\ThirdParty \WebDevFeature\H4A85

You can delete this folder; however, there are no adverse effects if you keep it.

Editing jde.ini Template

A jde.ini file is copied from a template on the Deployment Server to the Development Client upon installation. Most settings in the template are not modified when the template is copied to the Development Client. Therefore, if you want to have the settings in jde.ini on each Development Client set to particular values, set them in the jde.ini template located in <El dep svr install directory>\OneWorld Client Install\misc.

Alternatively, you can set up a pathcode>.inf file in <E1_dep_svr_install_directory>\oneWorld Client Install\misc
where <pathcode> is the name of the path code. This file can contain path code specific settings to be applied to jde.ini
on the Development Client. When the Development Client installer is run, the jde.ini template file is copied to the
Development Client. If a <pathcode>.inf file exists, any settings in this file will overwrite the corresponding settings in
the jde.ini on the Development Client.

Editing jas.ini, jdbj.ini, jdelog.properties Templates (Tools Release 9.2.9)

Upon installation, the jas.ini, jdbj.ini, and jdelog.properties files are copied from templates on the Deployment Server to the Development Client. Some settings in these files are updated by the installer. If you need to update any settings for all future installations, follow the steps in this section. Be careful to make only those edits that are required.



Extract the file(s) in the below jar files, edit it, and save it back into the jar file at the same location. "<installer_version>" in the below path names is the version of the installer such as 7.0.1.0.1.

• <E1_dep_svr_install_directory>\OneWorld Client Install\stage\Components\com.e1.devclient.top \<installer_version>\1\DataFiles\filegroup1.1.1.jar

The contents of this jar are copied to <El install dir>\<pathcode>\ini\sbf on the Development Client.

- o jdeinterop.ini
- o jdelog.properties
- LocalLogicCatalog.xml
- « <E1_dep_svr_install_directory>\OneWorld Client Install\stage\Components\com.e1.devclient.top
 \<installer_version>\1\DataFiles\filegroup2.1.1.jar

The contents of this jar are copied to <El_install_dir>\system\classes on the Development Client.

- o jdbj.ini (This file is also copied to <E1_install_dir>\<pathcode>\ini\sbf.)
- o jdelog.properties
- o NT jas.ini (This file is renamed to jas.ini upon installation.)

Configuring the Web Client (Tools Release 9.2.9)

Prior to Tools Release 9.2.9, EnterpriseOne connected to an Application Server such as WebLogic or WebSphere installed on the Development Client computer to run the Web Client in a browser. With Tools Release 9.2.9, EnterpriseOne connects to a remote Application Server (such as, WebLogic or WebSphere) installed on a separate server known as a Development HTML Server.

The information needed to connect to this remote Application Server is configured by the EnterpriseOne administrator in the jde.ini template on the Deployment Server. This jde.ini is copied to the Development Client machine during installation of the EnterpriseOne Development Client software.

To specify the connection information in the <E1_dep_svr_install_directory>\OneWorld Client Install\misc\jde.ini template, update these values in the [localweb] Section:

| Key | Value | Comments |
|-------------|--|--|
| webhostname | <pre><development html="" name="" server's=""></development></pre> | Fully qualified name (includes domain) or IP address of Development HTML Server. If useSSL (seen below) is 1, then the server name must exactly match the name on the web browser's SSL certificate. |
| webport | <pre><development html="" port="" server's=""></development></pre> | Port number on which Development HTML Server listens |
| useSSL | 1 or 0 | 1 = webport value is an https port 0 = webport value is an http port |



| | If this setting is omitted, the default value is 1. |
|--|---|
| | |

Note: [LOCALWEB] AppServerInstalled is set automatically in the jde.ini on the Development Client during installation. Do not change it manually.

Note: If there are any firewalls between the Development Client(s) and the Development HTML Server(s) designated in the LOCALWEB section, the webport must be open to allow communication between the server(s)

and Development Client(s). The ports must also be open for the serviceNameListen value in the [JDENET] section of the Development Client JDE.INI and the BPMBroker value (default of 9876) in the registry under the following path: hkey_local_machine\software\wow6432Node\JDEdwards\BPMBroker\port

Copying JDBC Drivers and the tnsnames.ora file to the Deployment Server

Ensure that the required JDBC drivers and the <code>tnsnames.ora</code> file are automatically downloaded from the Deployment Server to the Development Client during the installation of the Development Client. To set up this process, the administrator must first obtain the required JDBC drivers for the supported platforms and databases as well as the <code>tnsnames.ora</code> file, if connecting to an Oracle database, and copy them to the Deployment Server as described in this procedure.

This section describes these tasks:

- Copying the JDBC Drivers (Tools Releases prior to 9.2.9)
- Copying the JDBC Drivers (Tools Releases 9.2.9)
- Copying the tnsnames.ora file



Copying the JDBC Drivers (Tools Releases Prior to 9.2.9)

To copy the JDBC drivers:

1. On the Deployment Server, create a \JDBC subdirectory under the folder that contains the Web Client installation program. For example:

<E1_dep_svr_install_directory>\OneWorld Client Install\ThirdParty\WebDevFeature\WLSH4A\JDBC
Of

<E1 dep svr install directory>\OneWorld Client Install\ThirdParty\WebDevFeature\WASH4A\JDBC

Note: If you must copy the JDBC files to a different directory for some reason, you must add an entry to the oraparam.ini file for the WLSH4A or WASH4A installer to indicate the location of that JDBC directory. Edit the oraparam.ini file located in this directory: \\<deployment server name>\<release>\oneWorld client Install\ThirdParty\WebDevFeature\WLSH4A\Install Of \\<deployment server name>\<release>\oneWorld client Install\ThirdParty\WebDevFeature\WASH4A\Install. Add this entry to the [FileLocations] Section of the oraparam.ini file: JdbcPath=<UNC_Path_to_JDBC_files> For example: [FileLocations] JdbcPath=\\depsvr2\E920\My JDBC

Note: If you leave this entry out, the WLSH4A or WASH4A installer will look for the JDBC directory up one level from the setup.exe program for WLSH4A or WASH4A.

Note: You must delete any obsolete driver files because all drivers in this directory will be loaded by EnterpriseOne. If obsolete drivers exist, they may be used instead of newer drivers. Check Oracle Certifications for the latest drivers.

2. Refer to *Understanding Certifications* for information on where to obtain the JDBC drivers.

The required JDBC drivers for each platform are listed in the following table, but check Oracle Certifications for the latest drivers:

| Database | Required Drivers | Comments |
|------------------|------------------------------|---|
| Oracle | ojdbc8.jar, ons.jar, ucp.jar | The JDBC driver for Oracle will automatically be downloaded to your system when you install an Oracle database client or server. If you install a different driver, the system may not function properly. |
| UDB/DB2 | db2jcc4.jar | The JDBC driver for DB2/UDB is delivered with DB2/UDB server or client installation. |
| DB2/400 for IBMi | jt400.jar | The DB2/400 driver for the IBMi platform is delivered with the DB2/400 database installation. |
| SQL Server | mssql- | Microsoft provides a type 4 JDBC driver with full support at no |



| jdbc-11.2.0.jre8.jar | additional charge. Download the JDBC driver directly from Microsoft's website. |
|----------------------|---|
| | Use the installation documentation that comes with the download to install the JDBC driver into a temporary location. |

3. Obtain the JDBC drivers and copy them to the JDBC directory you created in the first step. When the Web Client is deployed to a target machine, these drivers are automatically installed into the following directory:

<Client Install Path>\misc

Copying the JDBC Drivers (Tools Release 9.2.9)

To copy the JDBC drivers:

1. On the Deployment Server, create a \JDBC subdirectory under the "ThirdParty" folder. For example:

<E1_dep_svr_install_directory>\OneWorld Client Install\ThirdParty\JDBC

Note: If you must copy the JDBC files to a different directory for some reason, you must add an entry to the oraparam.ini file for the Development Client installer to indicate the location of that JDBC directory. Edit the oraparam.ini file located in this directory: <E1_dep_svr_install_directory>\oneWorld Client Install\Install. Add this entry to the [FileLocations] section of the oraparam.ini file: JdbcPath=<UNC_Path_to_JDBC_files> For example: [FileLocations] JdbcPath=\\depsvr2\E920\My_JDBC

Note: If you leave this entry out, the Development Client installer will look for the JDBC directory under oneworld Client Install\ThirdParty.

Note: You must delete any obsolete driver files because all drivers in this directory will be loaded by EnterpriseOne. If obsolete drivers exist, they may be used instead of newer drivers. Check Oracle Certifications for the latest drivers.

2. Refer to *Understanding Certifications* for information on where to obtain the JDBC drivers.

The required JDBC drivers for each platform are listed in the following table, but check Oracle Certifications for the latest drivers:

| Database | Required Drivers | Comments |
|----------|------------------------------|---|
| Oracle | ojdbc8.jar, ons.jar, ucp.jar | The JDBC driver for Oracle will automatically be downloaded to your system when you install an Oracle database client or server. If you install a different driver, the system may not function properly. |



| UDB/DB2 | db2jcc4.jar | The JDBC driver for DB2/UDB is delivered with DB2/UDB server or client installation. |
|------------------|--------------------------------|---|
| DB2/400 for IBMi | jt400.jar | The DB2/400 driver for the IBMi platform is delivered with the DB2/400 database installation. |
| SQL Server | mssql- jdbc-11.2.0.jre8.jar | Microsoft provides a type 4 JDBC driver with full support at no additional charge. Download the JDBC driver directly from Microsoft's website. Use the installation documentation that comes with the download to install the JDBC driver into a temporary location. |

3. Obtain the JDBC drivers and copy them to the JDBC directory you created in the first step.

When the Web Client is deployed to a target machine, these drivers are automatically installed into the following directory:

<Client Install Path>\misc

Copying the tnsnames.ora File

The tnsnames.ora file is required only if the Development Client will connect to an Oracle database. However, if the tnsnames.ora file is not copied to the correct directory on the Deployment Server, the user will receive an error message during the Web Client (Tools Releases prior to 9.2.9) or Development Client (Tools Release 9.2.9) installation process.

To copy the tnsnames.ora file:

- 1. Obtain the tnsnames.ora file from an Oracle database configured to run with JD Edwards EnterpriseOne.
- 2. **Tools Releases prior to 9.2.5.0**: If the Development Client will use an Oracle database installed locally on the Development Client machine, you must use the following steps to ensure that the tnsnames.ora file has an entry to allow the Development Client to connect to the local database:
 - Edit the tnsnames.ora file.
 - o If an entry for E1Local does not already exist, add this to the file:

```
E1LOCAL = (DESCRIPTION =

(ADDRESS = (PROTOCOL = TCP) (HOST = localhost) (PORT = 1521)) (CONNECT_DATA =

(SERVER = DEDICATED) (SERVICE_NAME = E1Local)
))
```

- Save the tnsnames.ora file.
- 3. Copy the tnsnames.ora to this directory on the Deployment Server: \\<deployment server name>\<release> \client When the Development Client is installed on a target machine, this file is automatically installed to the following directories:



For WLSH4A (Tools Releases Prior to 9.2.9):

- <Client Install Path>\system\JAS\EA_JAS_80.ear\webclient.war\WEB-INF\classes
- <Client Install Path>\<pathcode>\ini\sbf

For WASH4A (Tools Releases Prior to 9.2.9):

- <Client Install Path>\JAS\EA_JAS_80.ear\webclient.war\WEB-INF
- <Client Install Path>\<pathcode>\ini\sbf

For Development Client (Tools Releases Prior to 9.2.5):

<64-bit Oracle database install path>\NETWORK\ADMIN

For Development Client (Tools Releases 9.2.9):

• <Client Install Path>\<pathcode>\ini\sbf

Updating the Database Drivers in the JDBJ.ini File (Tools Releases Prior to 9.2.9)

The Web Client installer (WLSH4A or WASH4A) updates the JDBJ.ini file with settings for the databases to which the Web Client will connect based on the JDBC database drivers found in this directory on the Development Client:

<Client Install Path>\misc

As noted in the preceding section of this chapter entitled: Copying the JDBC Drivers (Tools Releases prior to 9.2.9), these JDBC database drivers are copied from this directory:

\\<deployment server name>\<release>\OneWorld Client Install\ThirdParty\WebDevFeature\<WLSH4A or WASH4A>\JDBC

Note: If the user copies additional database drivers into the <client Install Path>\misc directory after installing WLSH4A or WASH4A, they must update the list of drivers in the JDBJ.ini file. This update must occur on each Development Client because the jdbj.ini template is built into the WLSH4A and WASH4A installers. Instructions for doing this are in the JD Edwards EnterpriseOne Development Client Installation Guide.

Updating the Database Drivers in the JDBJ.ini File (Tools Release 9.2.9)

The Development Client installer updates the JDBJ.ini file with settings for the databases to which the Development Client will connect based on the JDBC database drivers found in this directory:

<Client Install Path>\misc

As noted in the preceding section of this chapter entitled: Copying the JDBC Drivers (Tools Release 9.2.9), these JDBC database drivers are copied from this directory:

\\deployment server name>\<release>\OneWorld Client Install\ThirdParty\JDBC



Note: If the user copies additional database drivers into the <client Install Path>\misc directory after installing the Development Client, they must update the list of drivers in the JDBJ.ini file. This update must occur on each Development Client because the jdbj.ini template is built into the Development Client installer. Instructions for doing this are in the JD Edwards EnterpriseOne Development Client Installation Guide.

Updating the installmanager.htm File

To install a local Oracle database for use by the Development Client or to install the Development Client itself, the user runs this program:

\\<deployment server name>\<release>\OneWorld Client Install\InstallManager.exe

This program displays a graphical user interface that provides several options for the user to perform. The options that InstallManager.exe displays are read from the file InstallManager.htm that resides in the same directory as InstallManager.exe.

The JD Edwards EnterpriseOne administrator can edit this file to rename the options or to add new options. Instructions are inside the file.

CAUTION: Although InstallManager.htm is in HTML format, it is a restricted HTML that the InstallManager.exe can read. Some text file editing programs add extraneous HTML tags that InstallManager.exe does not recognize. The Microsoft Windows program Notepad.exe is an example of a program that is known to not add these extra tags, making it safe to use. Before you make any changes to the file, save a copy in case any changes that you make are not recognized by InstallManager.exe.

Understanding the Local Oracle Database Installer

Tools Releases prior to 9.2.5.0 require a database to be installed onto the same machine on which the Development Client is to be installed. This local Oracle database on the Development Client contains local specs and other data. This database is also referred to as E1Local, OEE (which stands for Oracle Enterprise Edition), or JDELocal. With Tools Release 9.2.5.0, the EnterpriseOne object specs were moved from that local database to the Central Objects data source. Because of this, the need for the database on the Development Client was removed. This move saves the time and disk space required to install the local Oracle database. It also saves much time during the installation of the Development Client and the save/restore operations of SnapShot.



You can choose the database based on the Applications Release of EnterpriseOne and "bitness" of the Windows operating system that your users are using. Do not take the following information for granted - you should always check Oracle Certifications for the most current official information.

- Applications Release 9.0
 - 64-bit Oracle Enterprise Edition 12c (OEE)
 - Microsoft SQL Server 2005 Express Edition SP3 or later
- Applications Release 9.2
 - o 64-bit Oracle Enterprise Edition 19c (OEE) or
 - 64-bit Oracle Enterprise Edition 12c (OEE)

To install a database onto a Development Client machine, the user runs this program:

\\<deployment server name>\<release>\OneWorld Client Install\InstallManager.exe

This program enables the user to install a local database or the JD Edwards EnterpriseOne Development Client. By default, the InstallManager.htm file is shipped from Oracle configured to install OEE.

Additional OEE Setup (Tools Releases Prior to 9.2.5)

The main installation program for OEE 19 is <code>oee19Setup.exe</code>. For OEE 12 it is <code>oee12Setup.exe</code>. Upon initial installation of Tools Release 9.2, this directory is created:

\\<deployment server name>\<release>\OneWorld Client Install\ThirdParty\ORACLE

The Tools Release 9.2 installation delivers these files in the above directory:

- OEE19Setup.exe Of OEE12Setup.exe
- deinstall.bat.tmpl
- deinstall ElLocal.rsp.tmpl

You must manually copy the **E1Local** cloned database (for example, the .CAB files) to this directory:

\\<deployment server name>\<release>\OneWorld Client Install\ThirdParty\ORACLE

This preconfigured and cloned database can be downloaded from the Oracle Software Delivery Cloud site or the JD Edwards Update Center. Only a 64-bit version of the OEE 19c database is available in the download.

Inside the zip files that you downloaded are files containing the cloned database. These internal files are called Ellocall9c.cab, Ellocall9c.cab, etc. Place the .cab files in the ORACLE directory specified above.

Removing the Local Oracle Database Installer for the Development Client (Tools Releases 9.2.5 and Later)

As noted above, the requirement for a local Oracle database on the Development Client was removed in Tools Release 9.2.5.

Note: Although the need for E1Local was removed from the Development Clients, it is still required on the Deployment Server.

E1Local can remain installed on Development Client machines, or it may be removed following the steps in the

JD Edwards EnterpriseOne Development Client Installation Guide.



These steps to remove the E1Local installer from the Deployment Server are optional:

- 1. Edit this file:
 - <El_dep_svr_install_directory>\OneWorld Client Install\InstallManager.htm
- 2. Either comment out or remove the line on which OEE19Setup.exe exists.
- **3.** Save the file.
- 4. Delete this directory:

<El dep svr install directory>\OneWorld Client Install\ThirdParty\ORACLE

Updating Installers

Applying New Tools Release Using Server Manager

You must use Server Manager to apply a new Tools Release to the Deployment Server. Instructions are provided in the JD Edwards EnterpriseOne Server Manager Guide.

Important: To avoid incompatibilities between versions of OUI on the Development Client, you can use SnapSshot or uninstall the existing Development Client before attempting to install a full package using the new installers. See *Editing the oraparam.ini for the Development Client Installer During an Update or Upgrade* in the *JD Edwards EnterpriseOne Tools Release Upgrade Process Guide* for information about the versions of OUI.

Manually Update Installers (Tools Release 9.2.3.3 Only)

If you are on Tools Release 9.2.3.3 only, you will have to perform the following steps manually. Server Manager was updated in Tools Release 9.2.3.4 to automatically perform the steps, therefore Oracle highly recommends that you update to at least Tools Release 9.2.3.4. If you cannot move to 9.2.3.4 or later and are moving to 9.2.3.3, continue to the steps below.

If you are moving to Tools Release 9.2.3.3, perform these steps:

On the Deployment Server, rename the directories of old installers BEFORE applying the Tools Release. The
Tools Release 9.2.3.3 and later Development Client, WLSH4A, and WASH4A installers are not compatible with
installers from prior Tools Releases; therefore, the new installers must be placed into empty directories on the
Deployment Server.

Rename the following directories under <El_dep_svr_install_directory>\OneWorld Client Install (for example, add "_backup" to the end of their names). Ignore any that you are not using (for example, those for WLSH4A or WASH4A).

- o \install
- o \stage
- o \ThirdParty\WebDevFeature\WLSH4A\install
- \ThirdParty\WebDevFeature\WLSH4A\response
- o \ThirdParty\WebDevFeature\WLSH4A\stage



- o \ThirdParty\WebDevFeature\WASH4A\install
- o \ThirdParty\WebDevFeature\WASH4A\response
- o \ThirdParty\WebDevFeature\WASH4A\stage
- 2. In Server Manager Console, apply the new Tools Release to the Deployment Server. See the *JD Edwards EnterpriseOne Server Manager Guide* for details.
- **3.** Update the oraparam.ini for the new Development Client installers with the section/key pairs shown in the table in Configuring oraparam.ini for the Development Client Installer.

Note: Ensure to start with the new oraparam.ini that comes with the latest Tools Release because the updated file contains values that must match with the new installer. You must update only those settings in the table.

No changes are required to the oraparam.ini or response files for the WLSH4A and WASH4A installers. Use the files that come with the installers.

Automatically Update Installers Using Server Manager (Tools Releases 9.2.3.4 and later)

Starting with Tools Release 9.2.3.4, Server Manager automatically performs the steps to rename the directories of the installers and updates the orangem.ini file.

To update the installers, perform this step in the Server Manager Console: Apply the new Tools Release to the Deployment Server. Instructions are provided in the *JD Edwards EnterpriseOne Server Manager Guide*.

Updating JDBC Drivers

Ensure the WLSH4A or WASH4A installer (Tools Releases prior to 9.2.9) or Development Client installer (Tools Releases 9.2.9 and later) has the latest JDBC driver files for the currently supported database versions.

Follow the steps in Copying JDBC Drivers and the tnsnames.ora file to the Deployment Server to update the drivers.

Note: As noted in *Copying JDBC Drivers and the tnsnames.ora file to the Deployment Server*, you must delete any obsolete driver files. Check Oracle Certifications for the latest drivers.

Note: When installing the Web Client (WLSH4A or WASH4A) using installers prior to Tools Release 9.2.5.0, the JDBj-SPEC DATA SOURCE section in the <code>jdbj.ini</code> file is populated with information that points to the E1Local database as the location of the Serialized Objects tables (F989998 and F989999). Since E1Local is no longer supported with Tools Release 9.2.5.0, the Web Client installers comment out this entire section in the <code>jdbj.ini</code> file. This causes the Web Client to use OCM to determine the location of the Serialized Objects tables.



Deployment Server

Administer JD Edwards Clients' (Development and Web) Installers

The initial installation of the JD Edwards Deployment Server provides installers for these components that can be installed on a Development Client:

- Development Client
- WLSH4A
- WASH4A

These installers are based on the Oracle Universal Installer (OUI) which is used to install a number of JD Edwards EnterpriseOne and non-JD Edwards Oracle products such as Oracle databases and Oracle Middleware.

The JD Edwards EnterpriseOne administrator must perform a small number of configuration steps to prepare these installers for running on EnterpriseOne workstations.

The JD Edwards product Server Manager (SM) updates the Deployment Server and Development Client with new Tools Releases. Because of changes in various Tools Releases, additional setup steps are required depending on the particular Tools Release being applied.

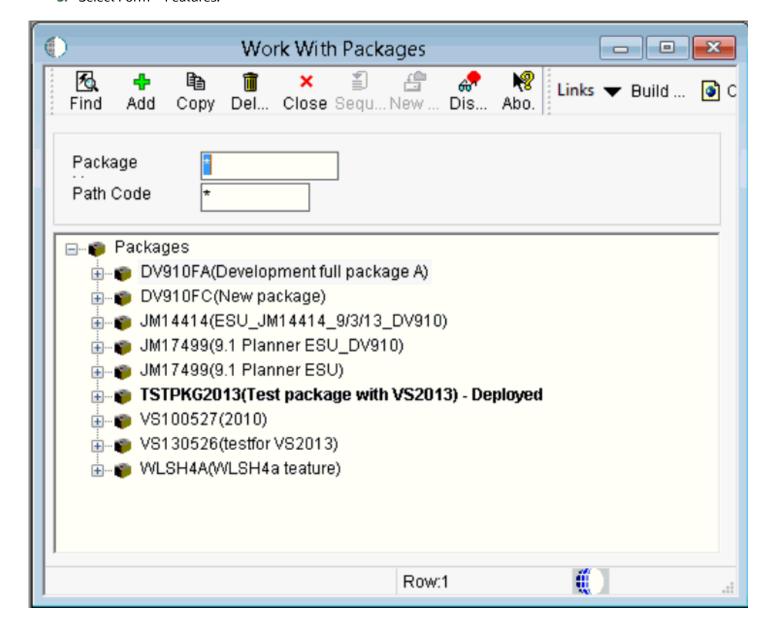
Creating the Web Development Feature (Tools Releases Prior to 9.2.9)

Complete this task to create a Web Client Installation Feature for your version of the application server. This feature must be included in the installation package before it is deployed to the Web Client machine.

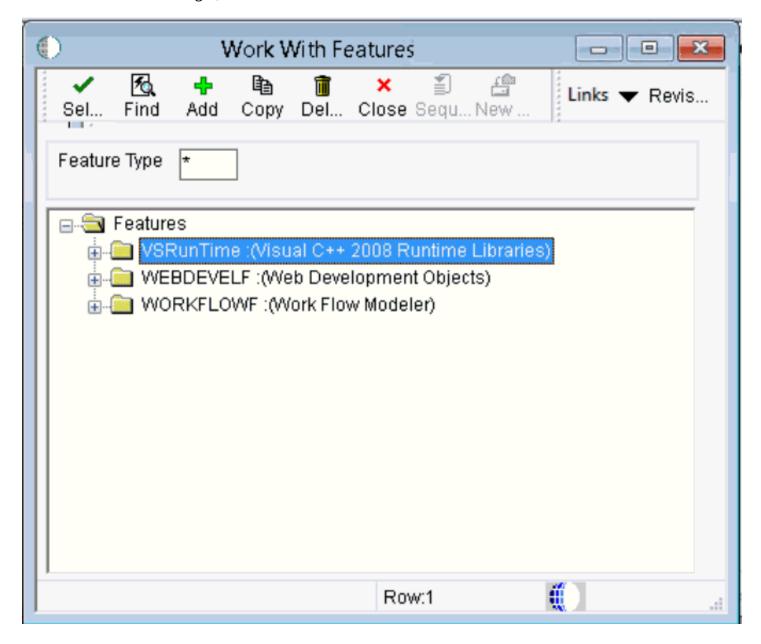
- 1. On the Deployment Server, log on to the Deployment environment (for example, DEP920 for Applications Release 9.2).
- 2. Access the GH9083 Package Assembly application.



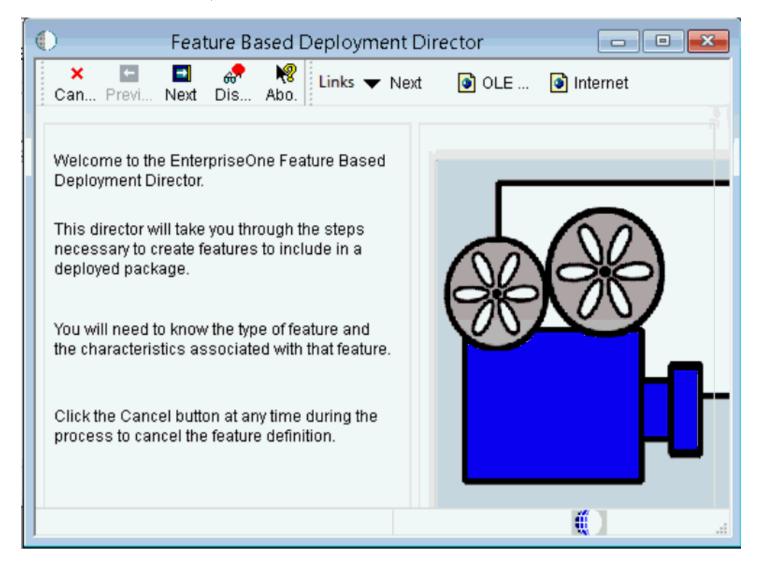
3. Select Form > Features.



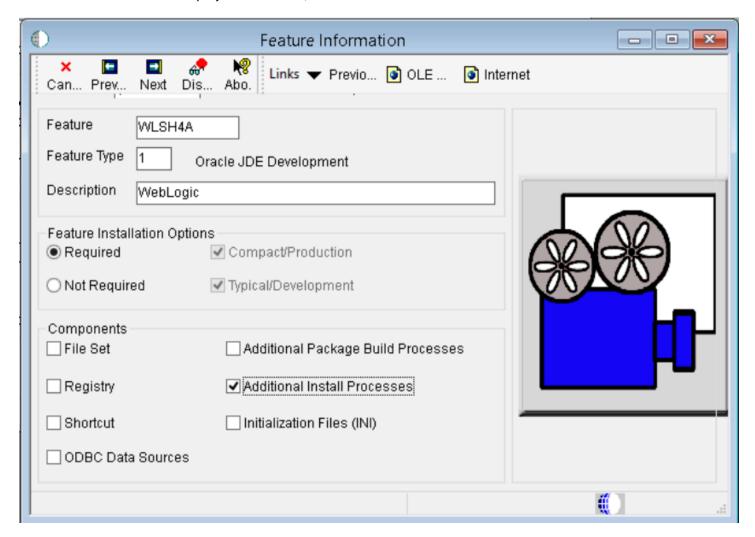
4. On Work With Packages, click the **Add** button.



5. On Work With Features, click the **Add** button.



6. On Feature Based Deployment Director, click the **Next** button.





7. On Feature Information, complete these fields:

Feature

Enter a meaningful name for the feature. For example, if you are using Oracle WebLogic Server:

WLSH4A

If you are using IBM WebSphere Application Server, an example would be:

WASH4A

You can specify any name for the feature.

Tip: Alternatively, you can provide the WAS Express version number (for example, WAS85H4A).

Tip: This Feature Name is for display purposes only. It does not have to be any of these names:

- WLSH4A
- WASH4A
- WAS90H4A
- H4A85 (Obsolete)
- Feature Type

Enter the value 1.

Description

Enter a description. For example:

Web Development Objects (WLSH4A) for WebLogic

or

Web Development Objects (WASH4A) for WebSphere

You can specify any text string for the description.

Required

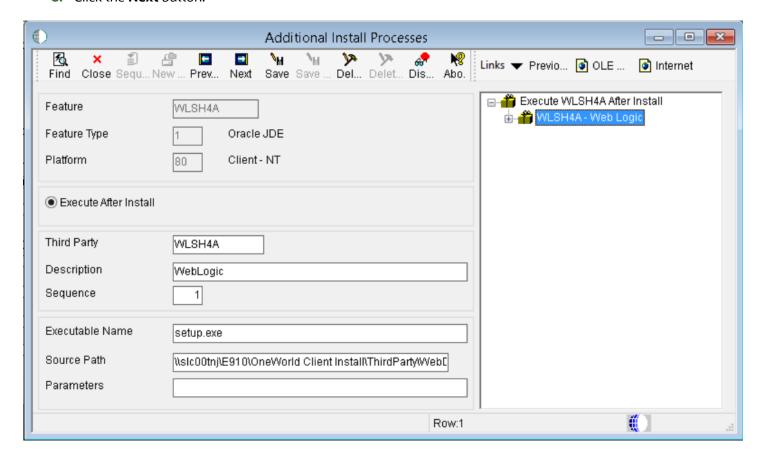
Ensure this option is selected.

Additional Install Processes

Ensure this option is selected.



8. Click the **Next** button.





9. On Additional Install Processes, complete these fields:

Execute After Install

For Tools Release 9.1 and greater, the Development Client installer does not use this flag. The default and unalterable behavior is to run the feature's installer after installing the Development Client.

Third Party

Enter the name of the feature that you entered earlier. For example, if you are using WebLogic:

WLSH4A

If you are using WAS, an example would be:

WASH4A

Description

Enter a description. For example:

Web Development Objects (WLSH4A) for WebLogic

or

Web Development Objects (WASH4A) for WebSphere

You can specify any text string for the feature.

Executable Name

Enter this value:

setup.exe

Source Path

Enter the path to the installation executable.

For WLSH4A, the path would be:

\\<deployment server name>\<release>\OneWorld Client Install\ThirdParty\WebDevFeature\WLSH4A \install

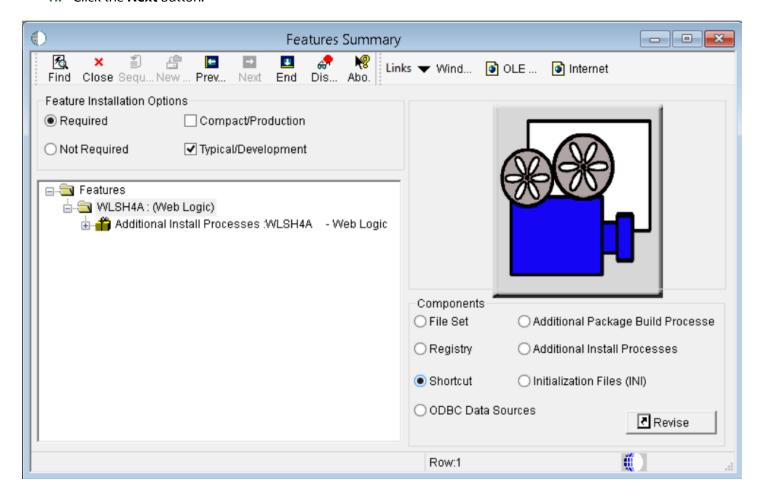
For WASH4A, the path would be:

\\<deployment server name>\<release>\OneWorld Client Install\ThirdParty\WebDevFeature\WASH4A \install

10. Click the Save button.



11. Click the Next button.



12. On Features Summary, click the **End** button.

Creating an Installation Package (Tools Releases Prior to 9.2.9)

This task describes how to add a Web Client Installation Feature to an installation package.

1. On the Deployment Server, run EnterpriseOne.

- 2. From the Package and Deployment Tools menu (GH9083), choose Package Assembly (P9601).
- **3.** Choose an assembled package that you want to deploy to the Development Client, and click Package Revisions from the Row Exit menu, or click Add to create a new package.

CAUTION: Do not attempt to add a feature to an existing package that has already been built. When you deactivate a built package, EnterpriseOne deletes the package.

- 4. Click Features.
- 5. On the Features Component screen, click Browse.
- **6.** On the Feature Component Selection screen, click Find.
- 7. Choose the Web Client Installation Feature for the Application Server you are using.

CAUTION: Do not include a feature for more than one of the Web Client installers (such as WLSH4A or WASH4A) in a single installation package. If you use more than one application server in your environment, create a separate package for each feature.

8. Click Select.

A check mark displays to the left of the component.

- 9. Click Close.
- **10.** On the Feature Component screen, click Close.
- 11. On Package Component Revisions, click OK.
- 12. Choose the package you just modified, and click **Activate/Inactive** in the Row Exit menu.
- **13.** Click **Define Build** in the Row Exit menu.
- **14.** On the Work with Package Build Definition screen, click Add.
- 15. Navigate through the Package Build Definition screens by clicking Next.
- **16.** On the Build Features screen, click the Build Feature INFs check box.
- 17. Complete the Build Definition process.
- 18. On Work With Package Build Definition, click Submit Build in the Row Exit menu.





3 Working With the Full Client Package

Understanding the Full Client Package

The package build and assembly process includes many critical tasks that must be successfully completed to correctly install packages. See *JD Edwards EnterpriseOne Tools Package Management Guide* for details on building, assembling, and deploying packages. That guide lists most of these tasks and gives step-by-step instructions for completing them.

It is necessary to build a Full Client and Server Package when upgrading to the *Tools Release 9.2*. You must first upgrade the Enterprise Servers before you upgrade the Development Clients. If the Enterprise Servers are not upgraded first, they may not be able to properly receive and process requests from Development Clients that are upgraded.

CAUTION: When run the OUI installer on the Development Client, OUI reuses components from previous installations. Because of this, users migrating to Tools Release 9.2 on Development Clients must first uninstall their existing client or save it with SnapShot and then install a full client package.

Creating the Full Client Package

To create the full client package:

- 1. Sign on to JD Edwards EnterpriseOne.
- 2. Go to GH9083.
- 3. Select Package Assembly.
- 4. Click the Add button.
- **5.** On the Welcome screen, click the **Next** button.
- **6.** Enter the Package name, Description and Pathcode, click the **Next** button.
- If the package is using the Defaults then select End; otherwise, you can use the form icons to perform the functions in this procedure.
- 8. Activate the package.
- 9. Select Define Build.
- 10. On the Welcome screen, click the **Next** button.
- 11. Click the **Client and Server** button, and then click the **Next** button.
- 12. Click the Client button, and then click the Next button.
- 13. Select **End** if you want to take the defaults.
- **14.** Activate the package.
- **15.** Click the **Submit Build** button to build the package.
- 16. When the package build is complete, deploy the package to the client workstations or make it Approved for Install Manager for the client workstations.





4 Working With SnapShot on the Deployment Server

Understanding SnapShot

The SnapShot program (note the terminology uses upper cases in the naming convention for this program) manages multiple instances of the JD Edwards EnterpriseOne Deployment Server or Development Client on a single machine.

Note: This chapter discusses using SnapShot on the Deployment Server. For details on using SnapShot on the Development Client, refer to the *JD Edwards EnterpriseOne Development Client Installation Guide*.

Using SnapShot you can save and restore copies of an installed Deployment Server. A saved copy is called a "snapshot" (note the terminology uses lower case in the naming convention for this entity).

Note: The SnapShot program that comes with each Tools Release is backwards compatible and can save/restore EnterpriseOne Development Clients from previous Tools Releases that may or may not include E1Local. Use the latest Snapshot.exe that is available.

Below is an example of SnapShot managing multiple tools releases including E920 and two installations of E910 (B9_Perf and E910_aaa).

The preceding image shows the JD Edwards main SnapShot window. The main features of this window, from top to bottom, include:

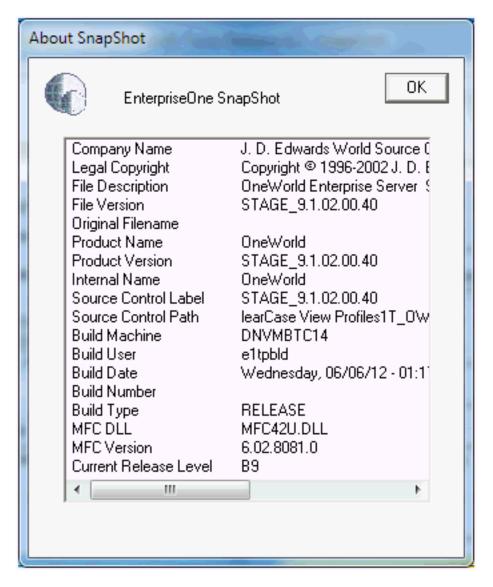
Close (icon)

The Close icon is located in the upper right-hand corner. Click this icon to exit snapshot.exe.



System (icon)

The System icon is located in the upper left-hand corner. Click on this icon or right-click on the title bar to display a drop-down menu that contains "About EnterpriseOne SnapShot...." Selecting this item displays version and build information about SnapShot as shown below:





Existing Version

This area contains these fields and buttons:

Version

The existing installed Deployment Server. Initially, this is the release specified in the installed package. After you save and then restore a SnapShot, this field will be the name that you gave the SnapShot when you saved it.

Location

The JD Edwards EnterpriseOne installation directory.

Save Button

Saves the installed JD Edwards EnterpriseOne to a snapshot.

Rename Environment Button

Renames the path code and environment names of the installed JD Edwards EnterpriseOne. This function is not available on the Deployment Server.

Saved Versions

The **Saved Versions** area contains a field that lists saved versions (also called snapshots). The example in this image shows the following versions: B9_Perf and E910_aaa.

Restore Button

Restores a saved version (snapshot) to a runnable JD Edwards EnterpriseOne installation.

Delete Button

Removes a saved version (snapshot).

Log File

Displays the log file path and name.

Close Button

Exits SnapShot.

Prerequisites

Before saving or restoring a JD Edwards EnterpriseOne installation using SnapShot, be sure that:

- You are signed into Microsoft Windows using an account with sufficient privileges (for example: read, write, execute) to the registry and to the JD Edwards EnterpriseOne installation and saved directories.
- All JD Edwards EnterpriseOne programs are closed.
- No applications (for example, Windows Explorer) have a file or subfolder open in either the installation or the saved directory or one of their subdirectories.
- The snapshot.exe that you are running is not in either the installation or the saved directory or one of their subdirectories.



- The database(s) that both the JD Edwards EnterpriseOne installation and the saved SnapShot use is installed and running.
- Ensure that the Oracle product JDeveloper is not running.

Additional considerations:

Before installing a new Deployment Server into a new Oracle Home, make sure you do not have any previous
versions in the Existing Version field of SnapShot. All versions must be saved and should appear in the Saved
Versions field.

Using SnapShot on the Deployment Server

To use SnapShot with multiple releases of the JD Edwards EnterpriseOne applications, you must use the most current version of SnapShot when switching between different releases of JD Edwards EnterpriseOne. For example, if you install the foundation code for both JD Edwards EnterpriseOne Applications *Release 9.2* and Applications Release 8.12, you must use the version of SnapShot corresponding to the most current JD Edwards EnterpriseOne tools release, in this case, *Tools Release 9.2*.

This section describes these tasks:

- Starting SnapShot
- Saving a Snapshot
- Restoring a Snapshot
- Deleting a Snapshot

Starting SnapShot

CAUTION: Be sure to follow the guidelines in the preceding section of this guide entitled:

Minimizing Locked Files

Note: You do not have to right click on the snapshot.exe icon and select **Run as administrator**. This is because this version of snapshot.exe is designed to automatically attempt to start with the elevated permissions. If you are not signed into Windows with an administrative account, you will be prompted to enter the credentials for an administrative account.

The SnapShot utility is delivered with the installation of both the JD Edwards EnterpriseOne Deployment Server and the Development Client workstations. It is located in this directory:

<JDE dep server or dev client installation directory>\System\bin64 or bin32

To run the most current version of SnapShot for multiple releases, you must copy the snapShot.exe program to a directory outside the Deployment Server installation directory. For example, the installation directory might be c:\E920. If you attempt to run SnapShot from within the Deployment Server installation directory (for example, c:\E920) the application will display an error message.

Tip: You can create a shortcut to snapshot.exe, but you still must copy snapshot.exe to a location outside the original installation directory where it was delivered.



Saving a Snapshot

To save a snapshot:



1. On the main SnapShot window, click the Save button.



2. On Make a New Snapshot, complete this field:

Snapshot Name

Enter a name for the snapshot that will be saved. You may choose any name with the exceptions that the name cannot be empty and it cannot contain a backslash ('\'). A recommended scheme is to make it release specific, for example, Xe, B9, or E920.

New Folder Name

SnapShot does not rename or move the installed directory on the Deployment Server; therefore, you cannot change the value in the New Folder Name field.

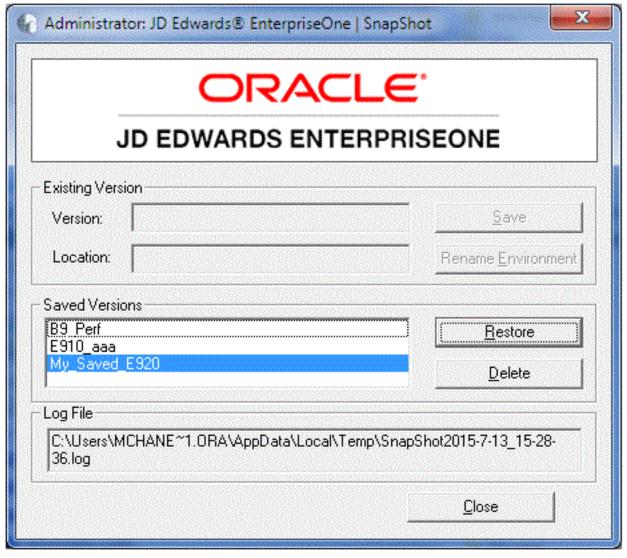
3. Click the **OK** button.

SnapShot saves a snapshot of the Deployment Server.

Restoring a Snapshot

To restore a snapshot:



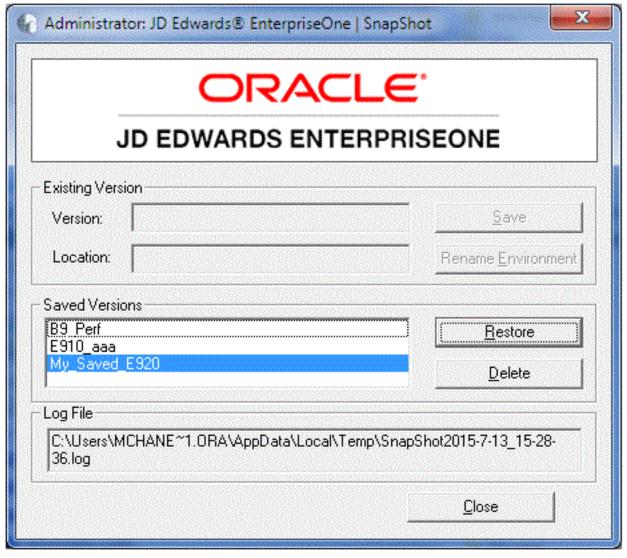


- 1. On the main SnapShot window and in the Saved Versions section, highlight the saved instance that you want to restore.
- 2. Click the **Restore** button.

SnapShot restores the selected instance of JD Edwards EnterpriseOne and makes it active.

Deleting a Snapshot

To delete a snapshot:



- 1. On the main SnapShot window and in the Saved Versions section, highlight the instance that you want to delete.
- 2. Click the Delete button.

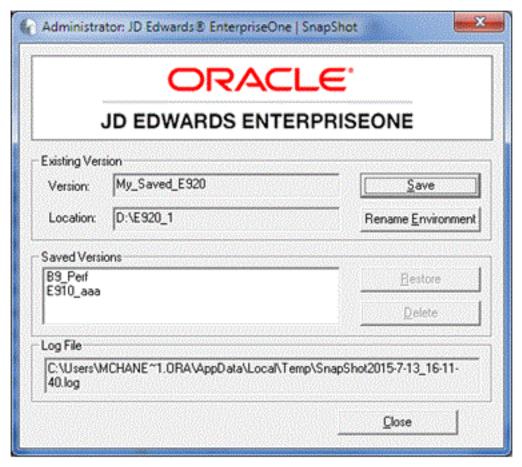
SnapShot completely removes the saved instance from the JD Edwards EnterpriseOne Deployment Server.

Renaming an Environment

You can use SnapShot to rename the installed JD Edwards EnterpriseOne environment and path code. An example of a use case for this functionality is when a JD Edwards EnterpriseOne administrator needs to promote one path code/environment combination to another.

Note: When you use SnapShot the program does not update the database tables with the new path code and environment names. Instead, it simply updates the path code directory name and occurrences of the path code and environment in various files (for example, jde.ini, jdbj.ini, jds.ini, and pathcode.inf). If the new path code or environment does not exist in the JD Edwards EnterpriseOne system tables, you will need to update those tables yourself either through JD Edwards EnterpriseOne or by using a database editing tool such as Oracle SQLPlus.

To rename an environment in SnapShot:



- 1. On the main SnapShot window, ensure that an existing version of JD Edwards EnterpriseOne is active.
- 2. Click the Rename Environment button.
- **3.** On Rename Environment, use the **Select an installed path code to change** drop-down to select the path code that you want to rename.

Note: The **Old Values** section on the left side of the window displays old path code and environment names.

- 4. In the New Values section of the window, enter the new names for the environment you want to rename.
- 5. Click the **OK** button.

Note: The section of the screen entitled **Select a view to change to** is available only to JD Edwards EnterpriseOne internal application developers.

Manually Backing Up Files and Settings

Once you have saved a snapshot for the Deployment Server, it is a good idea to manually backup the files to ensure that your settings for that Deployment Server are secure.

The files and subdirectories that need to be backed up are found in the folder of each saved snapshot. You should backup these files and subdirectories only while the **SnapShot.exe** program is not running. These files contain the information necessary to restore registry values and settings for each snapshot.

Set Logging for SnapShot Using the Registry

SnapShot always outputs the maximum amount of logging information. Furthermore, by design there is no way to turn off logging. You can specify the name and location of the log file that is generated by adjusting a single registry setting.

CAUTION: Changes made to the Microsoft Windows registry happen immediately, and no backup is automatically made. Do not edit the Windows registry unless you are confident about doing so. Microsoft has issued the following warning with respect to the Registry Editor: "Using Registry Editor incorrectly can cause serious, system-wide problems that may require you to re-install Windows to correct them. Microsoft cannot guarantee that any problems resulting from the use of Registry Editor can be solved. Use this tool at your own risk."

By default, the SnapShot log is located in the temp directory of the Microsoft Windows user. This is the directory pointed to by the TEMP environment variable. You can determine the value of this TEMP variable in a number of ways including:

- 1. Control Panel > System
- 2. In a command prompt window, enter this command:

echo %TEMP%

3. In the Address Bar of Windows Explorer, enter this string:

%TEMP%

The default log file name is snapshot_<date-time>.log.

Both the directory and name of the SnapShot log can be specified by editing the registry; however, the date-time stamp will always be inserted immediately before the period.

To change the log file directory and/or name:

- 1. Open the registry by clicking on Windows Start button and entering regedit in the search field.
- 2. Navigate to this node:

\HKEY LOCAL MACHINE\Software\Wow6432Node\JDEdwards\Snapshot

The first time that you run SnapShot, it creates a value (shown on the right-hand pane in regedit) called **LogFileName** with the default value **SnapShot.log**. You can change this value or, if it does not exist yet, you can add the value with name LogFileName, type string value, and the directory and/or file name of your choice.



- **3.** The rules listed below are used for determining the final log file directory and name based on the value of LogFileName:
 - o In all cases, the date and time that snapshot.exe is run will be inserted immediately before the period in the extension of the file name.
 - If the value of LogFileName does not contain any backslashes, the name represents only the file name.
 The value of the Windows TEMP variable will be used as the directory.
 - o If the value of **LogFileName** contains backslashes but does not start with a drive letter or a backslash, everything up to the last backslash represents a subdirectory or hierarchy of subdirectories below the directory designated by the Windows TEMP variable. Everything after the last backslash is the file name.
 - If the value of **LogFileName** starts with a backslash, it represents a subdirectory below the root directory of the drive (that is, directory "\"). The drive letter is derived from the drive specified in the Windows TEMP variable.
 - If the value of **LogFileName** starts with a letter followed by a colon and backslash, the letter is considered
 the drive letter where the log will reside. Any other applicable rule in the preceding rules above then
 apply.

The following are examples of values of the **LogFileName** registry entry and the resulting log file path and name. In these examples, the assumed value of the TEMP variable is c:\Users\John\AppData\Local\Temp and assumes the log was created on June 5, 2012, at 3:46:9 PM.

| Value for LogFileName | Resulting Log File |
|-------------------------|--|
| SnapShot.log | C:\Users\John\AppData\Local\Temp\SnapShot_2012-6-5_15-46-9.log |
| MyFile.txt | C:\Users\John\AppData\Local\Temp\MyFile_2012-6-5_15-46-9.txt |
| MyTempDir\MyFile.txt | C:\Users\John\AppData\Local\Temp\MyTempDir\MyFile_2012-6-5_15-46-9.txt |
| MyTempDir\MyFile.txt | C:\MyTempDir\MyFile_2012-6-5_15-46-9.txt |
| D:\MyTempDir\MyFile.txt | D:\MyTempDir\MyFile_2012-6-5_15-46-9.txt |

4. Save the changes and exit the registry.

Troubleshooting

If SnapShot encounters a problem when trying to perform an action, it is designed to attempt to rollback the actions performed up to the point of failure. This means that during a save operation, SnapShot attempts to restore the JD Edwards EnterpriseOne instance back to a runnable state. If a failure occurs during a restore action, SnapShot attempts to resave the JD Edwards EnterpriseOne snapshot so you can correct the problem and then retry the action.



CAUTION: If a second error occurs when SnapShot is attempting to rollback changes, the error will likely result in either a non-runnable instance of JD Edwards EnterpriseOne or a saved snapshot that is corrupt. In either case, you will probably need to reinstall JD Edwards EnterpriseOne.

This section describes these topics:

- Examining the Log File
- Remedial Actions

Examining the Log File

When an error is encountered in SnapShot, the first thing that you should do is to carefully examine any on screen error messages for an indication of what went wrong and why. If you are not able to determine the cause and possible resolution of an error by examining the error message on the screen, examine the log file. As shown in the preceding screen example, the location and name of the log file is specified in the **Log File** section near the bottom of the main SnapShot window.

```
- B X
C:\Users\mc17869\AppData\Local\Temp\temp3\SnapShot2012-6-6_13-36-56.log - Notepad2
Eile Edit View Settings ?
1 SnapShot Log
          Level Type Message
  5 01:36:56 5 INFO CSnapShotApp::VerifyAdminPermissions()-----
  6 01:36:56 5 INFO CSnapShotApp::GetProcessElevation()-
  7 01:36:56 5 INFO CMainSnapplg::OnInitDialog()---
  8 01:36:56 5 INFO CMainSnapDlg::_loadSnapShotList()-----
  9 01:36:56 5 INFO CMainSnapDlg::_setDefaultButton()-----
 10 01:36:56 5 INFO COWINSTAllation::Init()-----
 11 01:36:56 5 INFO Initializing Ow installation. Version:-----
 12 01:36:56 5 INFO COWInstallation::_readINI()---
 13 01:36:56 5 INFO Attempting to read ini file.-C:\windows\jde.ini-----
 14 01:36:56 5 INFO INI read.-DefaultSystem=system----
 15 01:36:56 5 INFO CFiles::_dirExist()-C:\Program Files (x86)\JDEdwards\B7-----
 16:01:36:56 5 INFO CFiles::_dirExist()-C:\Program Files (x86)\JDEdwards\B7\system-----
  17 01:36:56 5 INFO CFiles::_dirExist()-C:\Program Files (x86)\JDEdwards\B7--
n6:189 Col60 Sel0
                                               ANSI
                                                           CR+LF INS Default Text
                                    12.0 KB
```

Above is an example of a SnapShot log file. When troubleshooting within the SnapShot log file, you should scan the **Type** column for a status of **ERR**, which indicates an error. If the error message itself is insufficient to isolate the cause of the problem, examine the messages immediately before and after the error for hints as to the root cause.

Remedial Actions

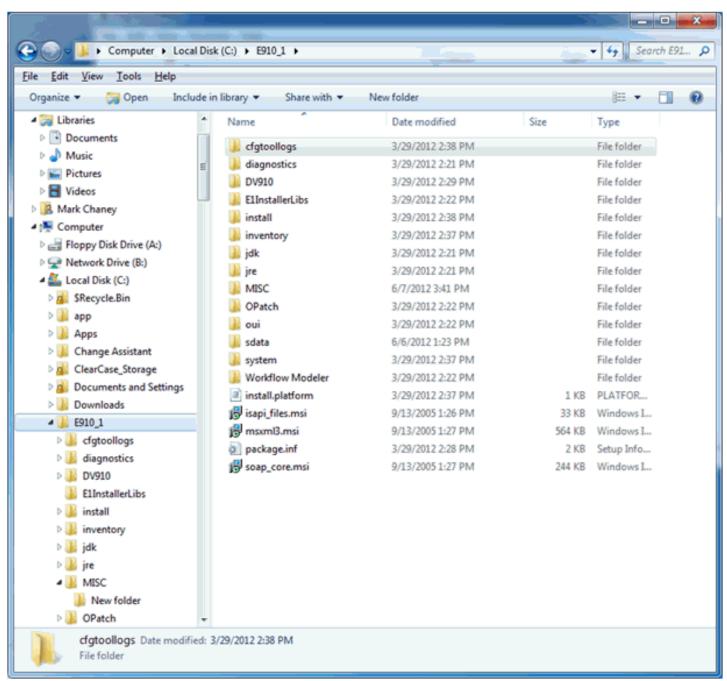
This section describes these topics:

- · Examples of Healthy Environments
- Simple Fixes



Examples of Healthy Environments

This section illustrates a healthy JD Edwards EnterpriseOne installation and saved snapshot directories and registry settings.





The preceding shows the installation directory of a healthy JD Edwards EnterpriseOne instance.

In the preceding example screen, note that when you save a snapshot of the JD Edwards EnterpriseOne installation, the highlighted files and subdirectory shown above are created. Here are brief descriptions of the new files and subdirectory.

STARTMENU*.*

The subdirectory that is prefixed with STARTMENU is the folder in the Start menu for the original installation.

DESKTOP*.*

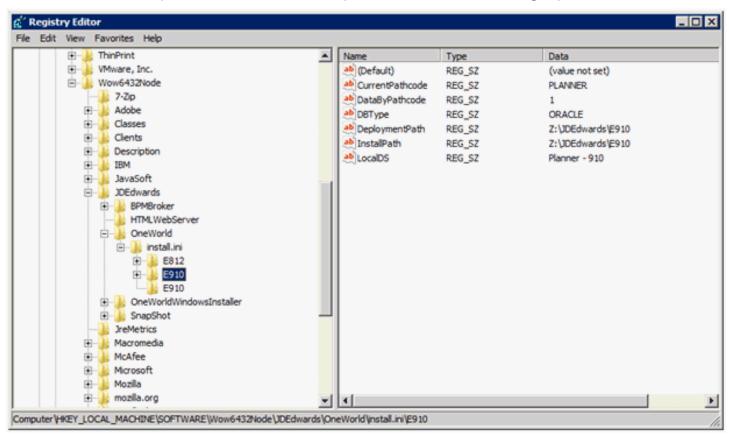
The file that starts with DESKTOP is the shortcut to JD Edwards EnterpriseOne that was on the desktop of the workstation.

ide.ini

The jde.ini file is the same file that was in the c:\Windows directory.

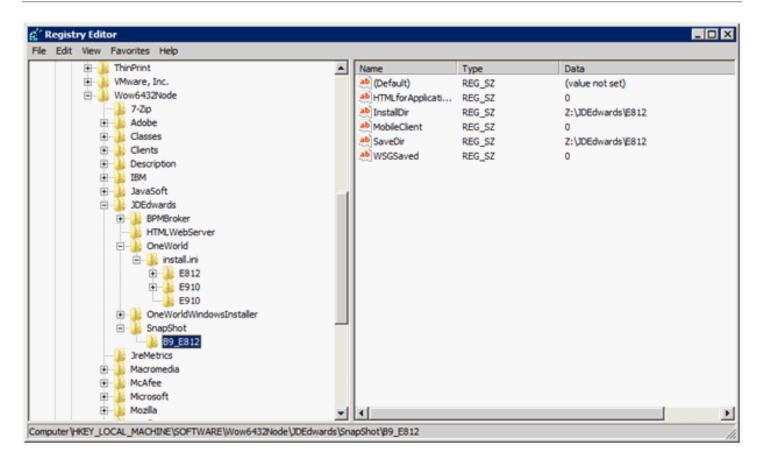
RegKeys*.*

The files that are prefixed with RegReys are binary files that contain the saved registry entries.



The preceding image shows the registry entries for a healthy JD Edwards EnterpriseOne Deployment Server installation.





The preceding image shows the registry keys for a saved JD Edwards EnterpriseOne snapshot.

Simple Fixes

Not all issues can be resolved by simple steps. However this section describes a few simple fixes for these conditions:

- Missing Version Information
- Missing Saved Version

Missing Version Information

If the **Existing Version** fields are empty when you run snapshot.exe and you are certain that a JD Edwards EnterpriseOne instance is active, it is likely that this file is missing:

c:\Windows\jde.ini

If you happened to save a copy of the jde.ini file when you last saved a snapshot of this installation, you can copy that jde.ini file into the c:\windows directory and rerun snapshot.exe.

Missing Saved Version



If a saved snapshot is not listed in the **Saved Versions** field and you know that the saved snapshot exists, some registry entries are probably missing or pointing to the wrong directory.

To resolve this issue, perform these steps:

- 1. Edit the registry with regedit.exe.
- **2.** Create a subkey under this path:

\HKEY LOCAL MACHINE\SOFTWARE\Wow6432Node\JDEdwards\SnapShot

The name that you give for the subkey should be the name of the saved snapshot.

- **3.** Click on the subkey that you just created.
- **4.** Create a string value called **SaveDir**.
- **5.** Set the value data for this to the directory where the saved snapshot is stored.
- **6.** Create a second string value called **InstallDir**.
- **7.** Set the value data for this to the installation directory (that is, the directory in which the saved snapshot will be restored).

The following image illustrates properly configured registry entries.



5 Rebuilding Business Functions for Vertex Header Files (for Vertex users only)

Rebuilding Business Functions for Vertex Header Files (for Vertex users only)

This applies to customers who use the Vertex Quantum Payroll Tax and Vertex Sales Tax Q Series (formerly Quantum for Sales and Use Tax) applications with JD Edwards EnterpriseOne.

These are the business functions that you may need to rebuild after applying *Tools Release 9.2*.

| Business Function | Description |
|-------------------|--|
| B0700058 | Establish connection to Vertex |
| B0000182 | Initialize environment for vendor business functions |
| B0000183 | Free environment for vendor business function |
| B7300004 | Retrieve Quantum GeoCodes |
| B7300002 | Validate Quantum GeoCodes |
| B7300012 | Retrieve Quantum software information |
| ХООТАХ | Calculate and edit tax amounts |

For more information about using Vertex Quantum applications with ERP, see Configuring JD Edwards EnterpriseOne for Use with Vertex Quantum Tax Applications in the JD Edwards EnterpriseOne Applications Release Installation Guide or JD Edwards EnterpriseOne Applications Release Upgrade Guide, for the applicable JD Edwards EnterpriseOne Applications Release.

Note: Refer to the *Understanding Certifications* to verify the supported versions of Vertex which vary according to platform.





6 Building Application Business Functions

Building Application Business Functions

If you are upgrading your *IBM i* to *JD Edwards EnterpriseOne Release 9.2* with *Tools Release 9.2*, you must make modifications to the <code>jde.imi</code> file. These changes are required to enable successful builds of applications business functions on the *IBM i* machine.

You must add the following *bold* sections to your existing jde.ini setting on your *IBM i JD Edwards EnterpriseOne* Enterprise Server.

[BSFN BUILD]
LinkLibraries=JDEUNICODE JDELIB JDEKRNL OWVER V VERIFY XERCESWRAP

Note: In your jde.ini file, you should enter this command line for CRTSRVPGM.

[AS400]

CRTSRVPGM=CRTSRVPGM SRVPGM(%ls/%ls) MODULE(%ls/*ALL)

BNDSRVPGM(JDEUNICODE JDELIB JDEKRNL OWVER V_VERIFY

XERCESWRAP) EXPORT(*ALL) OPTION(*DUPPROC *DUPVAR *UNRSLVREF)

ALWLIBUPD(*YES) TGTRLS(*CURRENT)

Note: You should enter the above command line as a single contiguous string.





7 Re-Linking Business Functions

Re-Linking Business Functions

After you have used Server Manager to install your Tools Release to an *IBM i* -based Enterprise Server, as in previous *JD Edwards EnterpriseOne* Tools Releases, you must re-link the Business Functions.

For each path code, re-link the business functions located in the associated *IBM i* library. The program LINKBSFN is delivered with the installation of each Tools Release to simplify this process. The following commands must be executed against each full package for a specified path code.

1. Run LINKBSFN against the full package of the path code.

LINKBSFN

- After you have entered the LINKBSFN command, press F4 to display the system prompt. Enter the package library name for the first parameter and the path code for the second parameter.
- **2.** Wait until the previous step completes successfully before continuing to the next step. Repeat this step for every package and path code you are updating.





8 Appendix A - Working With Multiple Tools Release Foundations

As a best practice, you should always set up multiple tools release foundations, including a test environment for applying fixes to JD Edwards EnterpriseOne tools releases. This helps ensure that a stable environment exists before you promote fixes to your production environment. You can also use this same principle and procedure to set up multiple foundations of major tools releases, such as Tools Release 9.1 and Tools Release 9.2.

The procedures described in this document enable customers to target specific environments when they install a tools release. For example, customers can keep the production environment running on the existing foundation and apply the new tools release to all other environments. This configuration enables them to perform tests on the new foundation code without impacting the production environment. When they complete the testing, they can then apply the new tools release to production.

By completing the tasks below, you can configure your *JD Edwards EnterpriseOne* systems to handle many foundations on a single enterprise server. These tasks require that you reconfigure pathcodes and <code>jde.imi</code> files to set up multiple foundations, but once the initial tasks are completed, the new configuration requires very little maintenance.

Before you begin the installation, consider these factors:

- The multiple foundation setup uses one security server process per port.
- If you have multiple Enterprise Servers at different tools release levels, make sure each of them is pointing to the correct security data sources.
- If you have multiple foundations or multiple Enterprise Servers at different tools release levels, a dual maintenance of users and passwords is required.
- Before beginning installation of the Tools Release 9.2, check the associated readme.txt file for late-breaking information and requirements.

This appendix consists of the following tasks:

- Understanding Multiple Foundation Code on the Enterprise Server
- Understanding Multiple Foundation Code on the Deployment Server
- Working with Packages for Multiple Foundations
- Working with the Development Client
- Editing the Development Client jde.ini File
- Promoting Foundation Code
- Setting up the Multiple jde.ini Files on the Deployment Server



Understanding Multiple Foundation Code on the Enterprise Server

To install multiple foundations, you must first install and configure new system code on the Enterprise Server. This section includes these topics:

- Working With Tools Releases on the Enterprise Server
- Registering an Existing Enterprise Server with Server Manager
- Understanding PORTTEST

Note: If your *JD Edwards EnterpriseOne* configuration includes multiple servers running *JD Edwards EnterpriseOne* host code (for example, additional application servers or data servers), then you will need to apply the procedures for installing multiple foundations to each server. For this type of configuration to work successfully:

- Make sure that the port settings for the [JDENET] section in the jde.ini match between all servers running the same foundation.
- Ensure the new services are running on all servers.
- Run PORTTEST successfully on all servers for all foundation releases that you have installed.

Working With Tools Releases on the Enterprise Server

Refer to the JD Edwards EnterpriseOne Tools Server Manager Guide as described in the section of this guide entitled: Understanding Server Manager and This Guide.

This section discusses these topics:

- Creating a New User and Group
- Creating a New Host Code Directory
- Creating a New Host Code Directory
- Creating an IFS Directory
- Editing the jde.ini File
- Editing the ide.ini File
- Editing the JDE.INI
- Deleting the Subsystem Entry
- Creating a Subsystem for the Service Pack
- · Verifying that the Library List is Set Up Correctly
- Linking Business Functions to Service Packs

Creating a New User and Group

The section discusses how to create a new UNIX user and group, which varies by platform.

- Creating Users and Groups on Solaris Platforms
- Creating Users and Groups on RS/6000 Platforms
- Copying .oneworld and .profile from an Existing User to a New User



Creating Users and Groups on Solaris Platforms

This section discusses how to create users and groups on a Solaris Enterprise Server.

Personnel

System administrator

Logon status

On the Solaris Enterprise Server, logged on as root.

Prerequisites

None

Concurrent Tasks

None

Use the following procedure to create a new UNIX administrator user and group on a Solaris Enterprise Server.

- 1. Log on to the UNIX Enterprise Server as root (super user). You can log on directly from a UNIX workstation or use telnet from the Microsoft Windows Deployment Server.
 - Solaris

Run the admintool program and from the Browse menu, select Groups.

Solaris

From the Edit menu, select Add. Enter the following value in the Group Name field:

pssprelease number

where *release_number* is the Service Pack base release being installed. For example, for Service Pack 1 you would enter:

pssp1

- **2.** Click OK to display a list of groups.
- 3. Verify that the pssprelease number group is listed.
 - Solaris

From the Browse menu, select Users.

- **4.** Select to Add users by following this procedure:
 - Solaris

From the Edit menu, select Add.

- 5. Complete these fields:
 - Login Name

Enter the value:

pssprelease_number

where *release_number* is the Service Pack base release being installed. For example, for Service Pack 1 you would enter:



pssp1

Home Directory

Enter the value:

/home/pssprelease number

where *home* is the name of the home directory of the *JD Edwards EnterpriseOne* user you just created. The system may fill this field automatically.

Primary Group

Enter the same value as you entered for the Login Name field. For example:

pssprelease_number

where *release_number* is the Service Pack base release being installed. For example, for Service Pack 1 you would enter:

pssp1

Start-up Program

Applicable to HP9000 only

Enter this value:

/usr/bin/ksh

Alternatively, you can select from a list of available shells.

Login Shell

Applicable to Solaris only

Enter this value:

/usr/bin/ksh

Alternatively, you can select from a list of available shells.

- 6. Click OK.
- **7.** Specify password.
 - Solaris

Select Normal Password from the drop down menu, enter a password, verify the password, and click OK.

- 8. Click OK.
 - Solaris

Exit the admintool.

Creating Users and Groups on RS/6000 Platforms

This section discusses how to create users and groups on a RS/6000 Enterprise Server.

Personnel

System administrator



· Logon status

On the RS/6000 Enterprise Server, logged on as root.

Prerequisites

None

· Concurrent Tasks

None

Use the following procedure to create a new UNIX user and group on an RS/6000 Enterprise Server.

- Log on to the RS/6000 as root (super user), or use telnet from the Microsoft Windows deployment server.
- 2. Run the smit program.
- 3. Select Security and Users.
- 4. Select group and Add a Group.
- **5.** Add a group called:

pssprelease_number

where *release_number* is the Service Pack base release being installed. For example, for Service Pack 1 you would enter:

pssp1

Use the default values for the remaining fields.

- **6.** To return to the Security menu, press **F3** three times.
- 7. Select Users and Add a User and complete these fields:
 - User Name

Enter the value:

pssprelease number

where *release_number* is the Service Pack base release being installed. For example, for Service Pack 1 you would enter:

pssp1

Primary Group

Enter the value:

/home/pssprelease_number

where *home* is the name of the home directory of the *JD Edwards EnterpriseOne* user you just created. The system may fill this field automatically.

Primary Group

Enter the same value as you entered for the Login Name field. For example:

pssprelease_number

where *release_number* is the Service Pack base release being installed. For example, for Service Pack 1 you would enter:



pssp1

Home Directory

Enter the value:

/home/pssprelease_number

where *home* is the name of the home directory of the *JD Edwards EnterpriseOne* user you just created. The system may fill this field automatically.

Initial Program

Enter this value:

/bin/ksh

- 8. Press Enter to accept the values.
- 9. To exit, press F3.
- **10.** To assign a password for pssprelease_number, enter this command:

```
passwd pssprelease_number
```

Copying .oneworld and .profile from an Existing User to a New User

- 1. Go to the home directory of an existing UNIX user. For example, your user might be psft900.
- 2. Using this command, copy the .oneworld file to the home directory of the new user that you created in *Creating a New User and Group*:

```
cp .oneworld .profile /home/user
```

where user is the name of the new user you created in Creating a New User and Group.

Creating a New Host Code Directory

This section discusses how to create a host code directory on UNIX operating systems.

1. On the UNIX-based Enterprise Server, navigate to the directory where the *JD Edwards EnterpriseOne* host code is installed. For example:

```
mount point/JDEdwards/
```

2. Create a new directory for the service pack you want to test. For example, your directory name might be E 910 SPTEST OF E920 DVJDPY.

```
mkdir host code dir
```

where *host_code_dir* is the name of the new host code directory.

The new directory will be used to store both the new service pack and the path codes that will access the service pack.

Granting Ownership and Authority

Enter these commands to grant ownership and authority to the directory you created in *Creating a New User and Group*:

```
chmod 777 host_code_dir
chown user host_code_dir
chgrp group host_code_dir
```



Editing the .oneworld File

This section discusses how to change the .oneworld file.

- 1. Navigate to the home directory of the new user created above.
- 2. Edit the .oneworld file to update the EVRHOME path with the new host code directory. For example: export EVRHOME=/mount point/JDEdwards/host code dir
- 3. If no .oneworld Script exists check the .profile file for a call to the enterpriseone.sh Script. Edit the enterpriseone.sh file to update the EVRHOME path with the new host code directory. For example: export EVRHOME=/mount point/JDEdwards/host code dir

Moving the Path Codes to the New Directory

1. From the mount_point/JDEdwards/E920 directory, determine the path codes that you want to access the new Tools Release. Move the selected path codes into the newly created directory using this command:

```
mv path_code /mount_point/JDEdwards/host_code_dir
where path_code is the path code selected to be moved where a valid value for path code might be PD920.
For example, if you wanted to test the new Tools Release with all environments except Production (PROD, PD), move the Development (DEV,DV), Pristine (PRST920, PS) and Prototype (CRP, PY) path codes.
Do not copy the path codes. Instead you should always move them. You should not associate more than one Tools Release or Service Pack with an environment at the same time.
```

2. Enter the following commands to grant ownership and authority to the path codes you moved:

```
chmod 775 /mount_point/JDEdwards/host_code_dir/path_code
chown user /mount_point/JDEdwards/host_code_dir/path_code
chgrp group /mount_point/JDEdwards/host_code_dir/path_code
```

Creating Remaining Directories

This section discusses creating the remaining directories necessary to complete the install.

- 1. Logon to the Enterprise server as the new user created above.
- 2. Navigate to the new directory created above. For example:

```
/mount_point/JDEdwards/host_code_dir
```

In the new directory, create the following subdirectories with these exact case-sensitive names:

- o ini
- packages
- o PrintQueue

Copying the ide.ini to the New Directory

1. Navigate to this directory:

/mount point/JDEdwards/e920/ini

2. Use the following command to copy the jde.ini to the host code directory:

```
cp JDE.INI /mount_point/JDEdwards/host_code_dir/ini
```

3. Enter the following command to change the permissions of the file:



chmod 666 /mount_point/JDEdwards/host_code_dir/ini/JDE.INI

Creating a New Host Code Directory

This section discusses how to create a new host code directory for an Enterprise Server running the Microsoft Windows operating system.

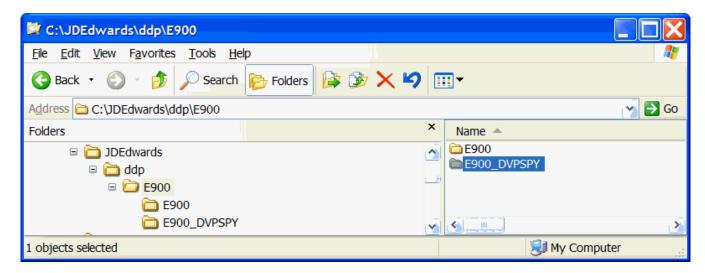
1. On the Enterprise Server, navigate to the drive and directory that contain the *JD Edwards EnterpriseOne* host code. For example:

cd z:\JDEdwards\ddp

where z is the drive on which the JD Edwards EnterpriseOne host code is installed.

2. Create a new directory for the tools release you want to test. For example, E 910 TRTEST OF E 910 DVPTRY.

The new directory will be used to store both the new tools release and the path codes that will access the tools release.

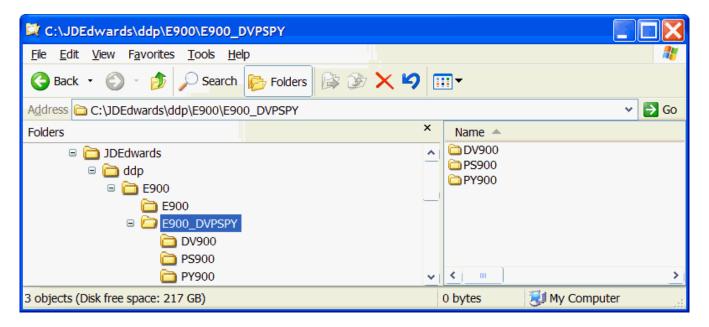




3. From the \Dedwards\ddp\E920 directory, select the path codes that you want to access the new tools release. Move the selected path codes into the newly created directory.

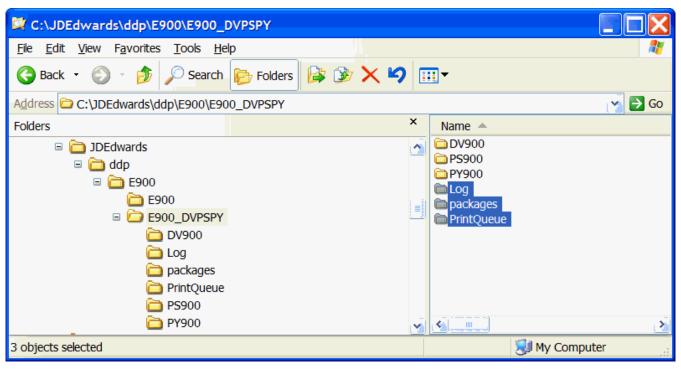
For example, if you wanted to test the new tools release with all environments except Production (PROD, PD), move the Development (DEV,DV), Pristine (PRIST, PS) and Prototype (CRP, PY) path codes.

Do not copy the path codes. Instead you should always move them. You should not associate more than one tools release with an environment at the same time.





- **4.** In the new directory, create the following subdirectories:
 - o log
 - o packages
 - o PrintQueue



Creating an IFS Directory

Create a new IFS directory for storing the JDE logs for the new service pack by entering the following command:

MD DIR(logdirectory)

where *logdirectory* is the name of the IFS directory for storing the JDE logs. For example, your directory name might be PSE 910 SP.



Editing the jde.ini File

This section discusses how to make modifications to the jde.ini file that is located on a UNIX Enterprise Server.

1. On the Enterprise Server, navigate to the /ini directory under the new host code directory. The file is typically located in this directory:

```
/mount point/JDEdwards/host code dir/ini
```

2. Edit the jde.ini file to change the paths in each of the entries below to point to the new host code directory:

Note: Replace host_code_dir in the entries below with the name of the new host code directory.

```
[DEBUG]
DebugFile=mount_point/JDEdwards/host_code_dir/log/jdedebug.log
JobFile=mount_point/JDEdwards/host_code_dir/log/jde.log
JDETSFile=mount_point/JDEdwards/host_code_dir/log/JDETS.log
[INSTALL]
B9=mount_point/JDEdwards/host_code_dir

[BSFN BUILD]
BuildArea=mount_point/JDEdwards/host_code_dir/packages
```

3. Locate the [JDENET] Section and find the port settings for serviceNameList and serviceNameConnect. For each entry, add 100 to the number. For example, if the settings are both 6013, change them to 6113.

```
[JDENET]
serviceNameList=6113
serviceNameConnect=6113
```

4. In the [JDEIPC] section, add 1000 to the startIPCKeyValue entry. For example:

```
[JDEIPC] startIPCKeyValue=7000
```

Note: If the startIPCKeyValue value is commented out, delete the comment mark to enable the setting.

- 5. In the [SECURITY] section, either clear security or edit DefaultEnvironment to reference a valid environment that accesses the new service pack.
- **6.** Replace all references to the production environment (for example, PD920) with a valid environment that will access the new service pack (for example, PY920).

Editing the jde.ini File

This section discusses how to make the appropriate changes to the jde.ini file on a Microsoft Windows system.

- 1. Navigate to the \system\bin32 directory under the new host code directory, and edit the jde.ini file.
- 2. Locate the [DEBUG], [INSTALL], and [BSFN BUILD] sections in the jde.ini file, and change the paths in each of these entries to point to the new host code directory:

Note: Replace *host_code_dir* in the entries below with the name of the new host code directory.

```
[DEBUG]
DebugFile=d:\JDEdwards\ddp\host_code_dir\log\jdedebug.log
JobFile=d:\JDEdwards\ddp\host_code_dir\log\jde.log
JDETSFile=d:\JDEdwards\ddp\host_code_dir\log\JDETS.log
[INSTALL]
E920=d:\JDEdwards\ddp\host code dir
```



StartServicePrefix=JDEdwards Update x.x

where x.x is the tools release number. For example, 9.2.

[BSFN BUILD]
BuildArea=d:\JDEdwards\ddp\host code dir\packages

3. Locate the [JDENET] section, and find the port settings for serviceNameList and serviceNameConnect. For each entry, add 100 to the number. For example, if the settings are both 6013, change them to 6113.

[JDENET]
serviceNameList=6113
serviceNameConnect=6113

4. In the [JDEIPC] section, add 1000 to the startIPCKeyValue entry as shown below:

[JDEIPC] startIPCKeyValue=7000

Note: If the startIPCKeyValue value is commented out, delete the comment mark.

- 5. In the [SECURITY] section, either clear security, or edit DefaultEnvironment to reference a valid environment that accesses the new tools release.
- **6.** Replace all references to the production environment (for example, PD812) with a valid environment that will access the new tools release (for example, PY920).

Editing the JDE.INI

This section discusses editing the JDE.INI on an IBM i server.

Note: Do not use the A980WMNU option to access the JDE.INI. This option takes you to the Production JDE.INI, not the service pack JDE.INI.

1. Edit the JDE.INI you just copied by entering the following command:

WRKMBRPDM FILE(syslib/INI)

where syslib is the name of the new system library. For example, B9SPSYS.

- 2. Enter Option 2 to Edit the file.
- 3. Locate the [DEBUG] and [INSTALL] sections in the JDE.INI, and change the paths in each of the entries below to point to the new IFS directory and Library respectively:

[DEBUG]
DebugFile=logdirectory/JDEDEBUG
JobFile=logdirectory/JDE.LOG
JDETSFile=logdirectory/JDETS.LOG
[INSTALL]
DefaultSystem=syslib

4. Locate the [JDEIPC] section and change the startIPCKeyValue. This value should be an unused start key not within the IPC range of another instance. For example, if the IPC value of another instance is 5000, then you should set the startIPCKeyValue to 7000.

[JDEIPC] startIPCKeyValue=7000



5. Locate the [JDENET] section, and find the port settings for serviceNameList and serviceNameConnect. For each entry, add 100 to the number. For example, if the settings are both 6013, change them to 6113.

```
[JDENET]
serviceNameListen=6113
serviceNameConnect=6113
```

- **6.** In the [SECURITY] section, either clear security or edit DefaultEnvironment to reference a valid environment that accesses the new Tools Release.
- 7. Replace all references to the production environment (for example, PD9) with a valid environment that will access the new service pack (for example, PD812).

Deleting the Subsystem Entry

The service pack installation creates an entry for the new service pack under the existing subsystem. This is not necessary, as a new subsystem will be created for the new service pack.

1. To delete the entry, type the following command:

```
WRKSBSD SBSD(syslib/*ALL)
```

2. Enter Option 4 next to the entry that includes the new *syslib* and delete the entry.

Creating a Subsystem for the Service Pack

- 1. Ensure you are signed on as QSECOFR before performing these steps.
- 2. Add the SYSTEM library to your library list.

```
ADDLIBLE syslib
```

3. Enter these commands, depending on your Tools Release:

```
CHGCMD CMD(CRTOWSBS) PGM(*LIBL/CRTOWSBS)

CRTOWSBS SUBSYSTEM(subsystemname) SYSLIB(syslib)
```

where *subsystemname* is the name of the new subsystem for the newly installed Tools Release. For example, PSE 910 1SP.

Note: The CALL PGM command requires four parameters, and the last three parameters should be the new SYSTEM library.

Verifying that the Library List is Set Up Correctly

Sign onto your IBMi as ONEWORLD. To ensure the library list is set up correctly, verify that it contains the newly created **SYSTEM** library. For example, E *910* PSYS.

Linking Business Functions to Service Packs

For each *JD Edwards EnterpriseOne* path code you want associated with the new service pack, re-link the business functions located in the associated *IBM i* library. The following commands must be executed against each full package for a specified path code:

- 1. Run Linkbsfn against the pathcode's full package. Type Linkbsfn, then press f4 to display the system prompt. Enter the package library name for the first parameter and the pathcode for the second parameter.
- 2. Wait until the previous step completes successfully before continuing to the next step.
- 3. Repeat this step for every package and pathcode you are updating.



Registering an Existing Enterprise Server with Server Manager

Any Enterprise Server running Tools Release 8.97 and greater should be registered with Server Manager. For details, refer to the section entitled: "Register or Create a JD Edwards Enterprise Server as a New Managed Instance" in the JD Edwards EnterpriseOne Tools Server Manager Guide .

Understanding PORTTEST

To ensure that the new tools release is properly installed on the Enterprise Server, complete the following task to run PORTTEST on all environments accessing the new tools release.

Note: If Security Server is on, then *JD Edwards EnterpriseOne* services must be running before PORTTEST can be run.

This section contains the following topics:

- Running PORTTEST
- Running the PORTTEST
- Running the PORTTEST
- Starting the Services
- · Starting the Services
- Starting the Services

Running PORTTEST

This section discusses how to run PORTTEST on a Microsoft Windows Enterprise Server.

- 1. On the Enterprise Server, open a command prompt window and change to the drive that contains the *JD Edwards EnterpriseOne* host code.
- 2. Enter these commands:

```
cd \JDEdwards\ddp\host code dir\System\bin32
```

PORTTEST userid password environment

where *userid* is a valid *Tools Release 9.2* user, *password* is the password for that user, and *environment* is the environment you are verifying. These parameters are case-sensitive.

3. Repeat the PORTIEST command for each environment accessing the new tools release.

Running the PORTTEST

This section discusses the procedure to run the PORTTEST command on a UNIX Enterprise server.

- 1. Log on the Enterprise Server as the new user that you created in *Creating a New User and Group*.
- 2. Enter these commands:

```
cd mount point/JDEdwards/host code dir/system/bin32
```

PORTTEST userid password environment

where *userid* is a valid *Release 9.2* user, *password* is the password for that user, and *environment* is the environment you are verifying. These parameters are case-sensitive.

3. Repeat the PORTIEST command for each environment accessing the new service pack.



Running the PORTTEST

This section discussing running the PORTTEST application on an IBMi Enterprise Server.

- 1. Sign on to the *IBM i* as ONEWORLD.
- 2. On Current Release 9.2 Versions, select the newly installed instance of JD Edwards EnterpriseOne.
- **3.** Go to the *Release* 9.2 Menu by entering the following commands:

ADDLIBLE JDEOW

GO JDEOW/A98OWMNU

- Choose option 4 to run PORTTEST.
- 5. Repeat the PORTIEST command for each environment accessing the new service pack

Starting the Services

This section discusses how to manage **Services** on a Microsoft Windows Enterprise Server.

- 1. On the Enterprise Server, open a command prompt window and change to the drive that contains the *JD Edwards EnterpriseOne* host code.
- 2. Enter the following commands:

```
cd \JDEdwards\ddp\host_code_dir\system\bin32
jdesnet -i
exit
```

- 3. From the Microsoft Windows Control Panel, open Services.
- 4. Select Tools Release Update x.xx E920 Network services.
- 5. Click Startup.
- 6. Select Manual.
- **7.** Click **This Account**.
- **8.** If your default printer is a local printer, enter a local user name and password. If your default printer is a network printer, enter a network user name and password.
- 9. Click OK.
- Select Tools Release Update x.xx E920 Network Services, and click start.

Starting the Services

This section discusses how to manage **Services** on a UNIX Enterprise Server.

- Navigate to the drive and directory that contains the JD Edwards EnterpriseOne host code. For example: cd /mount_point/JDEdwards/host_code_dir/system/bin32
- 2. Enter the following command:

./RunOneWorld.sh

Starting the Services

This section discusses how to manage **Services** on an *IBM i* Enterprise Server.

- **1.** Sign on to the *IBM i* as OneWorld.
- 2. On Current Release 9.2 Versions, select the newly installed instance of JD Edwards EnterpriseOne.
- **3.** Enter these commands:

ADDLIBLE JDEOW

GO JDEOW/A98OWMNU



- 4. Choose option 6 to end JDE server.
- 5. Choose option 7 to clear the IPC.
- **6.** Start the Enterprise Server using these options:
 - a. Choose option 5 to start the JDE server.
 - **b.** Choose option 8 to display active jobs.
- 7. Verify that the entry NETWORK is running with a PGM-MONITOR in SELW status.
- 8. Verify that the entry SENTINEL is running with a PGM-MONITOR in SIGW status.

Note: Until you perform a net request, the CPU is 0 (zero).

Understanding Multiple Foundation Code on the Deployment Server

This chapter discusses:

- Installing Multiple Tools Releases on the Deployment Server
- Adding a New Machine Record for the New Tools Release
- Modifying the Existing Machine Record to Remove Environments

Installing Multiple Tools Releases on the Deployment Server

- 1. Sign on to the Deployment server using the JDE user ID.
- 2. Make sure that all JD Edwards EnterpriseOne processes (for example, Solution Explorer) are not running.
- **3.** On the Deployment server, navigate to this directory:
 - z:\JDEdwards\E920
 - where z: is the drive on which the JD Edwards EnterpriseOne host code is installed.
- 4. In the E920 directory, create a directory called
 - System_TR_Original
 - where TR_Original is the release number of the tools release currently installed. For example, system_920.
- 5. From the \DEdwards\E920 directory, copy (**not** move) the following directories to the new system directory (system_TR_Original) that was just created. This will serve as backup or rollback location for the previous release.

System

SystemComp

OneWorld Client Install

CAUTION: Ensure you do not move these directories; they are required in both locations. This is because the installer needs to save a copy of the <code>jdbj.ini</code> and <code>jas.ini</code> files so you can relocate them in the new system directory.

Note: If you get a warning message, it indicates files are locked. You need to ensure that *JD Edwards EnterpriseOne* or any other application is not running and causing a lock on any file.



6. Install a Management Agent on the Deployment Server. This should be the Tools Release 9.2 version of the Microsoft Windows version of the JD Edwards EnterpriseOne Management Agent.

Refer to this chapter in the Server Manager Guide:

Install a Management Agent

Note: The installer for the Management Agent requires a 32-bit JRE. You can use the same JRE that you used to install the Deployment Server using the OUI installer.

7. Register the Deployment Server to the Server Manage Console.

Refer to this chapter in the Server Manager Guide:

Register a JD Edwards Deployment Server as a New Managed Instance

8. Obtain and deploy the Tools Release software component for the Deployment Server.

Refer to this chapter in the Server Manager Guide:

Managed Software Components

Note: Changing Tools Releases on the Deployment Server. When you use Server Manager to install the Software Component for a Tools Release prior to 9.2 on a Deployment Server, these two directories (which are the entire contents of the Tools Release portion of the Deployment Server) are backed up in a .jar file:

- O \System
- OneWorld Client Install

Therefore, when you use Server Manager to change a Tools Release prior to 9.2 on the Deployment Server, only those directories are restored. For Tools Release 9.2 and greater, the Server Manager install of the Tools Release performs differently because the contents are already stored in a <code>.jar</code> file where they can be extracted. In all cases, whenever Server Manager installs or changes a Tools Release, additional special files such as certain <code>.ini</code> and <code>.html</code> files are backed up. To fully preserve a Deployment Server, you should manually perform a full backup of the machine.

- 9. In the E920 directory, create another new directory called system_TR_New where TR_New is the release number of the tools release being installed. For example, system 91 A1.
- 10. Move the newly installed system, systemComp, and oneWorld Client Install files and directories into the new directory:

\JDEdwards\E920\System_TR_New

For example, \JDEdwards\E920\System_91_A1.

- 11. Restore the original directories by copying the system, systemcomp, and oneworld client Install directories from System_TR_original to the base installation directory x:\JDEdwards\E920.
- 12. Locate the jde.ini in this location:

\JDEdwards\E920\System_TR_New\OneWorld Client Install\Misc

- **13.** Modify the above-located jde.ini to change the port to that on which you wish to run the multiple foundation. For example, valid ports might be 6014, 6015, 6016, 6017, etc.
- **14.** Tools Releases 9.2.9 and later: In the same <code>jde.imi</code> change the [LOCALWEB] webhostname and webport number. Ensure that they are different for multiple foundations.



Adding a New Machine Record for the New Tools Release

- 1. On the Deployment Server, log on to the deployment environment.
- 2. From the Fast Path menu, run P9654A.
- 3. On Work with Locations and Machines, click Find and expand the location tree.
- 4. Click Enterprise Servers and then click Add.
- 5. On Enterprise Server Revisions, complete the following fields:

| Field | Description | |
|-------------------|--|--|
| Machine Name | Enter the name of your existing primary Enterprise Server. | |
| Description | Enter a description for the machine. | |
| Release | Enter E920. | |
| Host Type | Click the visual assist button and select the type of Enterprise Server. | |
| Port Number | This should match the port number previously set in the new tools release | |
| | jde.ini | |
| Database Type | Click the visual assist button and select the type of database being used on the Enterprise Server. | |
| Installation Path | Enter the installation directory path in which <i>Release</i> 9.2 is installed on the Enterprise Server. | |
| Installation Path | Enter the installation library in which <i>Release 9.2</i> is installed on the Enterprise Server. For example: | |
| | SYSLIB | |

6. Click OK.

Note: For Oracle databases, the program prompts for a connect string. Enter or verify the connect string and click OK.

- 7. On Work with Locations and Machines, click Find and expand the tree.
- 8. Expand the Enterprise Server, click the newly added machine and click Select.
- **9.** On Enterprise Server Revisions, click the Environments form exit.
- **10.** On Machine Environments Revision, add the environments which you want to access with the new tools release. You can add the environments either by typing their names into the grid or by selecting them using the visual assist.
- 11. Click OK twice to return to Work with Locations and Machines.



Modifying the Existing Machine Record to Remove Environments

- 1. On the Deployment Server, log on to the deployment environment.
- 2. From the fast path menu, run P9654A.
- 3. On Work with Locations and Machines, click Find and expand the location tree.
- **4.** Expand Enterprise Servers, click the initial Enterprise Server machine record and click Select.
- 5. On Enterprise Server Revisions form, click the Environments form exit.
- **6.** Delete all the environments that you added in the previous section.

This should leave you with only those environments that you have defined to access the production tools release (for example, PD920).

7. Click OK twice.

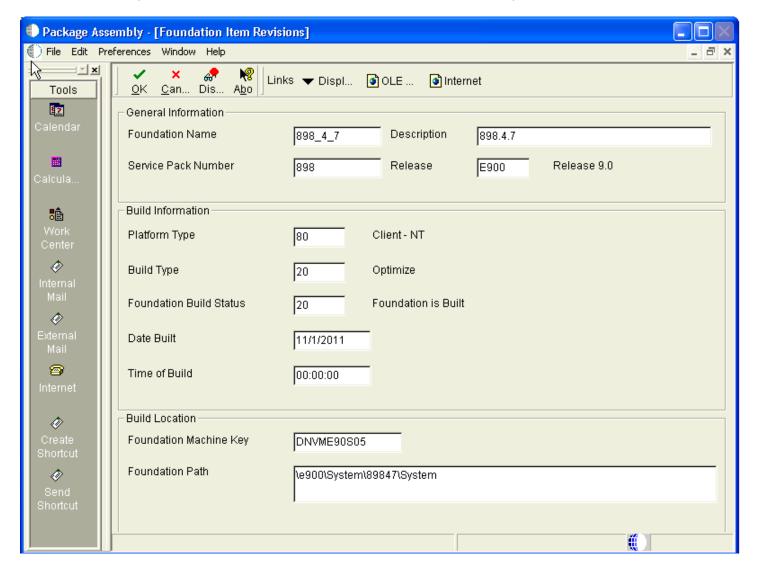
Working with Packages for Multiple Foundations

Deploying the new tools release is easily done using the Package Build application by using a non-default foundation. Use these steps to create and include a new foundation for the multi-foundation tools release.

- 1. Sign on to the Deployment Server using the JDE user ID.
- 2. Sign on to EnterpriseOne using the JDE user ID into the Deployment (DEPXXX) environment.
- 3. Launch the Package Assembly application from menu GH9083.

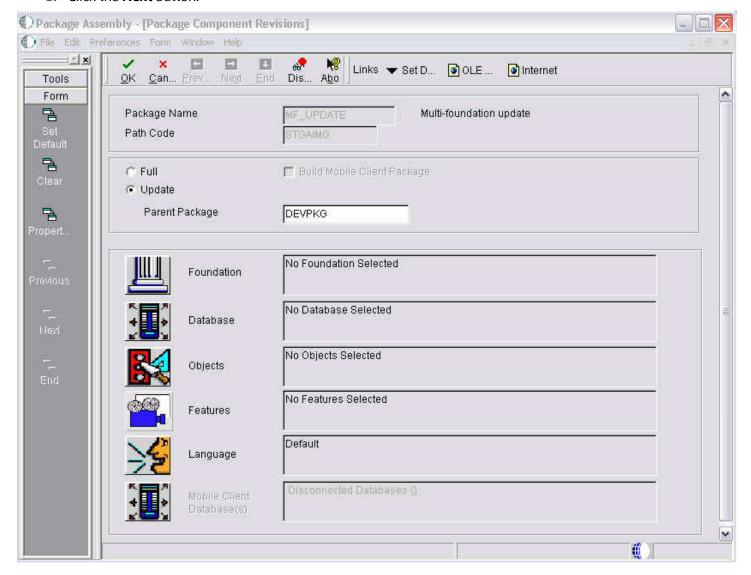


4. Go to Form/Foundation and click the Add button on the Foundation Component Selection Screen



5. On Foundation Item Revisions, click the **OK** button to save the Foundation Item Revision information.

- **6.** Click the **Find** button to display the new Foundation item list.
- **7.** On the Package Component Revision, click the **Add** button to add an update package. Complete these fields:
 - Name
 - Description
 - Path Code
- 8. Click the Next button.



9. On the Package Component Revisions, enter a valid value for the Parent Package and select the **Foundation** icon.



- **10.** On Foundation Item Revisions, select the **Find** button.
- 11. Select the Multi-foundation for the Update Package by clicking the first column of the selected row.

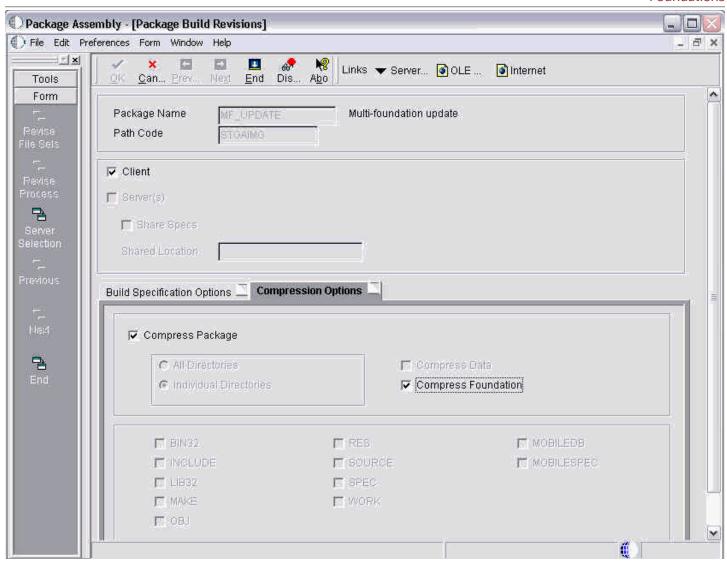
Note: Ensure that the check mark displays in the first column of the selected row record.

- **12.** Click the **Close** button.
- 13. Click the **End** button to complete the Package Assembly process.
- **14.** Click the **Row > Active/Inactive** icon.



15. Click the **Define Build** button and continue through the subsequent screens.







- 16. On Package Build Revisions, select the Compression Options tab and select your compression options.
- 17. Proceed to submit the build and deploy the package.

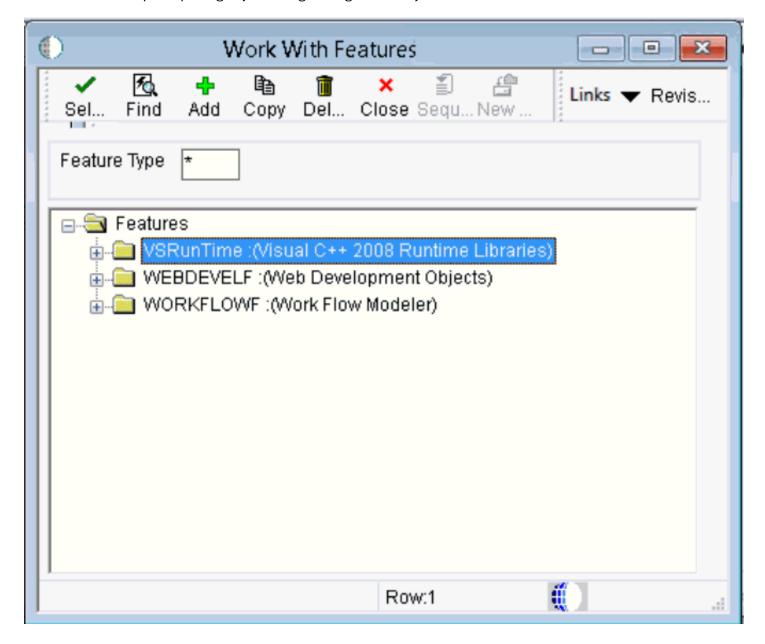
Working with the Development Client

Use the procedure in this section to set up your Development Client.

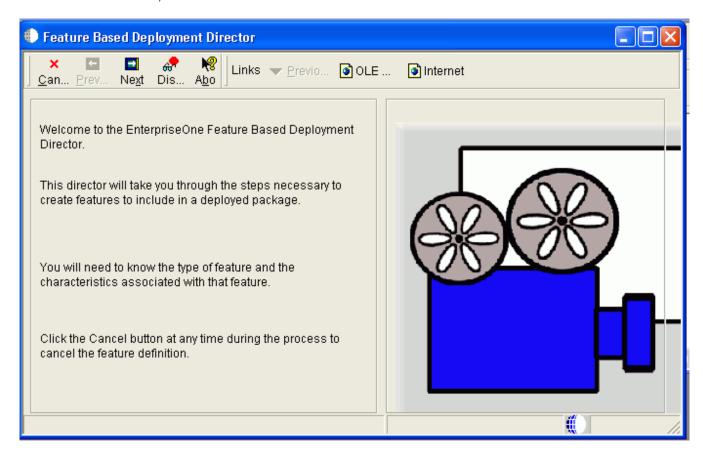
1. On the GH9083 menu, launch the Package Build application.



2. Create an update package by selecting Package Assembly and then Add.

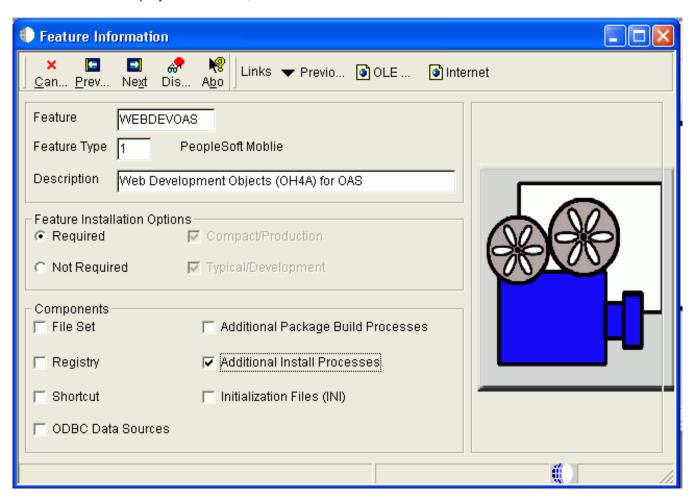


3. On Work With Features, select Add.





4. On Feature Based Deployment Director, click Next.



5. On Feature Information, complete these fields:

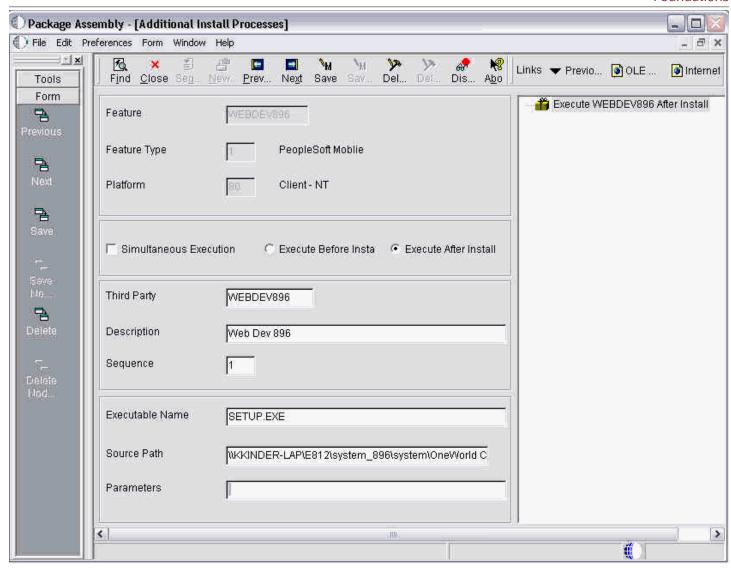
| Field | Description | |
|------------------------------|---|--|
| Feature Type | Enter a valid value for this feature type. | |
| Description | Enter a description for the feature. | |
| Feature Installation Options | Select your feature installation options by checking the appropriate check boxes. | |

| Field | Description |
|------------|------------------------------------|
| Components | Verify this check box is selected: |
| | Additional Install Processes |



6. Click Next.







- 7. On Package Assembly, Additional Install Processes, complete these fields:
 - Feature

Enter a meaningful name for the feature. For example, if you are using WebLogic:

WEBDEVWLS

If you are using WAS, an example would be

WEBDEVWAS

You can specify any name for the feature.

Feature Type

Enter the value 1.

Description

Enter a description. For example:

Web Development Objects (WLSH4A) for WLS

or

Web Development Objects (WASH4A) for WebSphere

You can specify any name for the description.

Required

Ensure this option is selected.

Additional Install Processes

Ensure this option is selected.

- 8. Click Save.
- 9. Click Next.
- Continue with the rest of the package assembly; there is no need to select any objects.
- 11. Define the package and, when prompted, make sure to select:

Build Feature Inf

12. Submit the package, which creates the new feature .inf for Web Development.

The newly created feature .inf file is located in the package.inf directory.

Note: For any subsequent package builds for the non-default foundation for which you want to include webdev feature, you can use the package that you created with this procedure.

Editing the Development Client jde.ini File

Note: If you are using SnapShot, you do not need to manually edit the jde.ini file to manage multiple clients for multiple foundations, as described in this procedure.



This section describes editing the jde.ini file for a Development Client.

In order for the *Release 9.2* clients to access the new tools release, you must edit the jde.ini file on each client to point to the new directory.

Complete the following task on all Release 9.2 clients that have path codes that will access the new tools release.

Note: You will be unable to access multiple tools releases with a single client. To access multiple tools releases, you will need to install a different client for each tools release. This will require using the SnapShot application to save each client before installing the next one.

1. On the *Release 9.2* workstation, open Microsoft Windows Explorer, and navigate to your Microsoft Windows directory. For example:

cd c:\WINDOWS

- 2. Open the jde.ini file.
- 3. Locate the [JDENET] section, and edit the port settings for serviceNameListen and serviceNameConnect. Change these entries to match those of the server jde.ini file for the new tools release.

[JDENET]
serviceNameList=portNumber
serviceNameConnect=portNumber

where *portNumber* is the same port number you entered in the jde.ini file on the Enterprise Server.

Promoting Foundation Code

This section discusses how to promote foundation code into the production environment when using a Microsoft Windows-based Enterprise Server.

- 1. On the Enterprise Server, stop the *Release 9.2* services for the following environments:
 - The environment that you want to promote to production
 - The production environment
- 2. Navigate to this directory:
 - z:\JDEdwards\ddp\E920
- 3. Create a directory called system Backup, and move the system directory into the system Backup directory.
- 4. Navigate to this directory:
 - z:\JDEdwards\ddp\foundation_code_dir
- **5.** Copy the system directory to this directory:
 - z:\JDEdwards\ddp\E920
- Navigate to this directory and copy the jde.ini file.
 - z:\JDEdwards\ddp\E920\System Backup\System\bin32
- 7. Paste the jde.ini file into this directory:
 - z:\JDEdwards\ddp\E920\System\bin32



The program asks if you want to replace the existing jde.ini file. Click OK to indicate you want to replace the existing jde.ini file.

- **8.** Start the *JD Edwards EnterpriseOne* services.
- **9.** On the Deployment Server, create a system Backup subdirectory under the *JD Edwards EnterpriseOne* host code directory. For example
 - z:\JDEdwards\E920\System Backup
- 10. Copy the system and systemcomp directories into the system Backup directory.
- 11. Navigate to the directory containing the system code being promoted. For example:
 - z:\JDEdwards\System x.xx

where x.xx is the release number of the tools release

- **12.** Move the system and systemcomp directories to this directory:
 - z:\JDEdwards\E920
- **13.** Using P9654A, edit the machine records to include the environments that you want to access the promoted tools release.

Setting up the Multiple jde.ini Files on the Deployment Server

You may need to set up multiple jde.ini files on the Deployment Server to address the requirement for the Development Client to access different pathcodes and ports for different application releases of JD Edwards EnterpriseOne. For details, refer to the appendix of this guide entitled: Data by Pathcode.



9 Appendix B - Manual Cleanup of an Uninstalled Oracle Database

Manual Cleanup of an Uninstalled Oracle Database

If the deinstallation of the OEE database fails for some reason, to completely remove the old installation before reinstalling the database, you need to perform manual steps that are listed in the appendix of the *JD Edwards EnterpriseOne Development Client Installation Guide* entitled *Manual Cleanup of an Uninstalled Oracle Database*.





10 Appendix C - Data by Pathcode

Data by Pathcode

Note: Beginning with Tools Release 9.2.5.0 and the removal of the E1Local database, the contents of this appendix are obsolete. If you are installing Tools Release 9.2.5.0 or higher, you can ignore these topics.

When a Development Client is installed, it may be configured so that each pathcode on the client has its own local database or for all pathcodes to share the same local database. Initially, JD Edwards EnterpriseOne is set up for each pathcode on a Development Client to have its own database. This section describes how to configure these scenarios.

This appendix discusses these topics:

- Datasource Name Generation
- Package Build Considerations
- Additional Spec Datasource Settings in the jdbj.ini
- Summary of Possible Administrator Changes

Datasource Name Generation

The Development Client installation creates entries in the registry based on values in the Development Client installer oraparam.ini file located at:

\\<deployment server>\<release>\OneWorld Client Install\install\oraparam.ini

Assuming you have edited the oraparam.ini file as described in the section of this guide entitled: *Update the oraparam.ini File*, these entries are in the oraparam.ini file:

```
[Attributes]
DataByPathCode=0|1
LocalDS=Local (this can be any string; the default value is "Local")
```

The registry entries on the Development Client machine after the Development Client is installed are located under:

HKEY_LOCAL_MACHINE\Software\Wow6432Node\Jdedwards\OneWorld\install.ini\<releasenumber>

In the above location, assuming the oraparam.ini file contains the requisite entries, these registry key values are assigned:

```
DataByPathCode=0|1LocalDS=some string
```

Using these values, the WLSH4A and WASH4A installers create these datasource entries that point to the EnterpriseOne specs stored in a local database:

1. Entry in the jabj.ini used by the web client:

```
[JDBj - SPEC DATA SOURCE] name=
```



2. Entry in the jde.ini used by the Development Client:

[LOCALWEB]

Spec Datasource=

For **WLSH4A**, the jdbj.ini file is located in this directory on the Development Client machine:

<installpath>\system\JAS\EA_JAS_80.ear\webclient\WEB-INF\classes\jdbj.ini

For **WASH4A**, the jdbj.ini is located in this directory on the client machine:

<installpath>\JAS\EA JAS 80.ear\webclient.war\WEB-INF\jdbj.ini

The rules for generating the spec datasource name in the jdbj.ini and jde.ini are based on the values of the DataByPathCode and LocalDs in the [Attributes] Section of oraparam.ini, which is located in this directory of the Development Client installer:

OneWorld Client Install\install

In hierarchical order, the rules are:

1. DataByPathCode is 0 or missing

This condition indicates a shared local database. The datasource name will be "OneWorld Local" regardless of the value of LocalDS.

The following table shows the parameters used to create a datasource name that points to a local database:

| ini File | Settings |
|--------------------------------------|---|
| oraparam.ini | [Attributes] DataByPathcode=0 or missing LocalDS is missing |
| jdbj.ini | [JDBj - SPEC DATA SOURCE] name=OneWorld Local |
| jde.ini (Development Client machine) | [LOCALWEB] Spec Datasource=OneWorld Local |

2. DataByPathCode is 1 and LocalDS is Missing

This condition indicates separate databases and LocalDS is missing. The datasource name will be "Local" followed by a hyphen and then the pathcode.

| ini File | Settings |
|--------------|--|
| oraparam.ini | [Attributes] DataByPathcode=1 LocalDS is missing |
| jdbj.ini | [JDBj - SPEC DATA SOURCE] name=Local - <pathcode></pathcode> |



| ini File | Settings |
|------------------------------|--|
| jde.ini | [LOCALWEB] Spec Datasource=Local - <pathcode></pathcode> |
| (Development Client machine) | |

3. DataByPathCode is 1 and LocalDS is Set

This condition indicates separate databases and LocalDS is set. The datasource name will be the value of LocalDS followed by a hyphen and then the pathcode.

| ini File | Settings |
|--------------------------------------|--|
| oraparam.ini | [Attributes] DataByPathcode=1 LocalDS=Local |
| jdbj.ini | [JDBj - SPEC DATA SOURCE] name=Local - <pathcode></pathcode> |
| jde.ini (Development Client machine) | [LOCALWEB] Spec Datasource=Local - <pathcode></pathcode> |

CAUTION: The WLSH4A and WASH4A installers will update these strings in the ini files on the Development Client.

Package Build Considerations

The package build process uses a value in the <code>c:\windows\jde.ini</code> on the build machine when building a full package to determine the directory structure that will be created on target workstations when the package is installed. This key and setting are:

```
[INSTALL]
DataByPathCode=0|1
```

The directory structure that is formed by the package build based on this setting is stored in the inf file for the package.

The following table shows what the directory structure would look like when the built package is installed on a workstation using these example values:

Installation Directory

c:\E920



Pathcodes

DV920

PY920

Note: These values are only examples; additional pathcodes could be included.

| DataByPathCode | Directory Structure | Comment |
|--|-----------------------|--|
| DataByPathCode=0 | c:\E920\JDEData | Contains database shared among all pathcodes |
| | c:\E920\DV920 | |
| | c:\E920\PY920 | |
| DataByPathCode=1 This is the default value for package build. | c:\E920\DV920\JDEData | Contains database for DV920 |
| | c:\E920\PY920\JDEData | Contains database for PY920 |

CAUTION: The value of the DataByPathCode key in the [INSTALL] section of the jde.ini on the machine(s) on which any packages are built MUST match the value of the DataByPathCode key in the [Attributes] section of the oraparam.ini in \OneWorld client Install\install directory for the Development Client installer.

Additional Spec Datasource Settings in the jdbj.ini

As noted in the preceding sections of this appendix, the name of the Spec Data Source stored in the jdbj.ini is determined based on the values of the DataByPathCode and LocalDS keys in the oraparam.ini file. Additional entries in the jdbj.ini complete the definition of the datasource. These entries are copied to the jdbj.ini by the WLSH4A and WASH4A installer and come from the [DB SYSTEM SETTINGS - SECONDARY] section of the Development Client jde.ini.

The following table shows the mapping between Entries in the jde.ini and jdb.ini.

| jde.ini | jdbj.ini |
|--------------------------------|-------------------------|
| DB SYSTEM SETTINGS - SECONDARY | JDBj - SPEC DATA SOURCE |
| Туре | databaseType |
| DatabaseInstance | databaseInstance |



During the installation of the Development Client, the jde.ini file for all the Development Clients is created according to specific rules. Refer to the JD Edwards EnterpriseOne Development Client Installation Guide for details.

Summary of Possible Administrator Changes

The following table describes the only changes that the administrator might need to make to affect the definition of the datasource for the local database.

| File | Setting | Comment |
|--|--|---|
| \\ <deployment name="" server=""> \<release>\OneWorld Client Install\misc\jde.ini</release></deployment> | [DB SYSTEM SETTINGS - SECONDARY] Type DatabaseInstance= | Type defines the type of the local database. DatabaseInstance defines the instance name of the local database. |
| | [INSTALL]DataByPathCode | 0 = share database among pathcodes1 = separate databases for each pathcodeThis setting is only used when building a full package. |
| \\ <deployment name="" server=""> \<release>\OneWorld Client Install\misc\<pathcode>.ini</pathcode></release></deployment> | [DB SYSTEM SETTINGS - SECONDARY] Type DatabaseInstance | Any values in this file override their respective values in this file: \\deployment server name> \ <release>\OneWorld Client Install\misc\jde.ini Type defines the type of the local database. DatabaseInstance defines the instance name of the local database.</release> |
| \\ <deployment name="" server=""> \<release>\OneWorld Client Install\install\oraparam.ini</release></deployment> | [Attributes]DataByPathCod LocalDS | 0 = share database among pathcodes 1 = separate databases for each pathcode This o ptional datasource prefix is only used if DataByPathCode=1. |





11 Appendix D - Updating the JRE/JDK Used by the Installers

Updating the JRE/JDK Used by the Installers

The installation of a Development Client places two JRE's under the installation directory. One is provided by OUI itself and is used only by OUI during deinstallation. The second is in the system directory and is used by EnterpriseOne at runtime.

If you need to replace the JRE used at runtime (for example, to avoid security vulnerabilities), replace the one on the Deployment Server under the system directory (such as, \\<deployment server name>\<release>\system\jre) and build and deploy a package containing that foundation/system.

If you need to replace the JRE used during deinstallation, follow these steps after installing a package onto the Development Client:

- 1. Drill down to <E1 install dir>\jre\1.8.0
- 2. Copy the contents of the JRE you want into that 1.8.0 directory. That directory should contain, among other things, bin and lib subdirectories.

Note: It is very important that you do not rename the 1.8.0 directory and that the directory contains the new JRE files and subdirectories.

Note: When a package is installed, that <code>jre\1.8.0</code> directory will be replaced. You will need to replace the JRE after each package is installed.



