
JD Edwards EnterpriseOne Tools 8.97 Package Management Guide

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Integration information	Implement, Optimize + Upgrade; Implementation Guide; Implementation Documentation and Software; Pre-Built Integrations for PeopleSoft Enterprise and JD Edwards EnterpriseOne Applications
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Implementation guides support policy	Support, Support Policy
Prerelease notes	Support, Documentation, Documentation Updates, Category, Release Notes
Product release roadmap	Support, Roadmaps + Schedules
Release notes	Support, Documentation, Documentation Updates, Category, Release Notes
Release value proposition	Support, Documentation, Documentation Updates, Category, Release Value Proposition
Statement of direction	Support, Documentation, Documentation Updates, Category, Statement of Direction
Troubleshooting information	Support, Troubleshooting
Upgrade documentation	Support, Documentation, Upgrade Documentation and Scripts

Typographical Conventions and Visual Cues

This section discusses:

- Typographical conventions.
- Visual cues.
- Country, region, and industry identifiers.
- Currency codes.

Typographical Conventions

This table contains the typographical conventions that are used in implementation guides:

Typographical Convention or Visual Cue	Description
Bold	Indicates PeopleCode function names, business function names, event names, system function names, method names, language constructs, and PeopleCode reserved words that must be included literally in the function call.
<i>Italics</i>	Indicates field values, emphasis, and JD Edwards EnterpriseOne or other book-length publication titles. In PeopleCode syntax, italic items are placeholders for arguments that your program must supply. We also use italics when we refer to words as words or letters as letters, as in the following: Enter the letter <i>O</i> .
KEY+KEY	Indicates a key combination action. For example, a plus sign (+) between keys means that you must hold down the first key while you press the second key. For ALT+W, hold down the ALT key while you press the W key.
Monospace font	Indicates a PeopleCode program or other code example.
“ ” (quotation marks)	Indicate chapter titles in cross-references and words that are used differently from their intended meanings.
. . . (ellipses)	Indicate that the preceding item or series can be repeated any number of times in PeopleCode syntax.
{ } (curly braces)	Indicate a choice between two options in PeopleCode syntax. Options are separated by a pipe ().
[] (square brackets)	Indicate optional items in PeopleCode syntax.
& (ampersand)	When placed before a parameter in PeopleCode syntax, an ampersand indicates that the parameter is an already instantiated object. Ampersands also precede all PeopleCode variables.

Visual Cues

Implementation guides contain the following visual cues.

- The date on which a change of address becomes effective.
- The date on which a lease becomes effective.
- The date on which a price becomes effective.
- The date on which the currency exchange rate becomes effective.
- The date on which a tax rate becomes effective.

Fiscal Period and Fiscal Year

Enter a number that identifies the general ledger period and year. For many programs, you can leave these fields blank to use the current fiscal period and year defined in the Company Names & Number program (P0010).

G/L Date (general ledger date)

Enter the date that identifies the financial period to which a transaction will be posted. The system compares the date that you enter on the transaction to the fiscal date pattern assigned to the company to retrieve the appropriate fiscal period number and year, as well as to perform date validations.

CHAPTER 1

Getting Started with JD Edwards EnterpriseOne Package Management

This chapter discusses:

- JD Edwards EnterpriseOne Package Management overview
- JD Edwards EnterpriseOne Package Management implementation

JD Edwards EnterpriseOne Package Management Overview

Oracle's JD Edwards EnterpriseOne Package Management describes how to set up and maintain processes to develop and deploy custom modifications that are created with Oracle's JD Edwards EnterpriseOne tools. You can use the guide to set up an environment in which you can deploy custom modifications that were made with development tools. It also provides information about applying modification rules, transferring objects, checking out development objects, and working with the data dictionary.

JD Edwards EnterpriseOne Package Management Implementation

JD Edwards EnterpriseOne standardizes and automates software installation, making many steps transparent to users. Technical setup is pre-configured to meet the requirements of many JD Edwards EnterpriseOne customers. In addition, JD Edwards EnterpriseOne products are pre-integrated and share a common database, which reduces the implementation process, minimizes ongoing administration, and provides customers with the flexibility to add new applications, modules, and tools as needed.

CHAPTER 2

Understanding Package Management

This chapter discusses:

- Customer and consultant roles.
- Packages.
- Types of packages.
- Object change tracking.
- The integrity of the production environment.
- Deployment methods.
- JD Edwards EnterpriseOne package implementation.

Customer and Consultant Roles

Typically, both consultants and customers participate in an implementation. Consultants perform these roles:

- CNC consultant.
- Custom solution consultant.
- Application consultant.
- Hardware, network, and third-party software consultant.

Customers perform these roles, which parallel the consultant roles:

- CNC administrator.
- Application developer.
- Application project leader.
- Hardware, network, and third-party software administrator.

After the implementation, the consultants typically have fewer responsibilities. Therefore, customers must receive adequate training for the roles that they fill.

CNC Consultant and CNC Administrator

The CNC consultant and CNC administrator install JD Edwards EnterpriseOne and set up environments, users, security, and distributed processing. They also are responsible for setting up version control and testing various CNC configurations. The CNC consultant and CNC administrator control the deployment of JD Edwards EnterpriseOne software throughout the company.

Modification	Full Package	Update Package with Specs, Business Functions, and Named Event Rules (NERs)	Update Package with Business Functions and NERs but no Specs
Imbedded event rules in a report	X	X	
Report data structure	X	X	
Report vocabulary overrides	X	X	
Report processing options	X	X	
Versions and processing option values (depends on processing options)	X	X	
Imbedded event rules in versions	X	X	
Processing option templates	X	X	
Business Views			
Added or changed fields	X	X	
Tables			
Structure (specifications)	X	X	
Indexes	X	X	
Joins	X	X	
Generic text data structure	X	X	
Data dictionary items			
Foundation code (required for full packages, optional for update packages)	X	X	X
Foreign languages	X	X	
Non-Oracle objects (custom items must be defined in the JD Edwards EnterpriseOne Central Objects database, and can be deployed through any package type)	X	X	

JD Edwards EnterpriseOne Deployment Director enables you to specify the workstations and servers that receive the package, as well as when the package is made available. Packages can be deployed to all computers within the enterprise, a select group of computers, or individual computers. You can schedule a package to be *pushed* from the deployment server to workstations. Push installation requires no interaction with the workstation users.

When you schedule the package, you can indicate whether package installation is mandatory or optional. At this same time, you can specify whether you want the package to be deployed using push installation, which requires no interaction with the package recipient.

5. Deploy the package to deployment, enterprise, and web servers.

Use the JD Edwards EnterpriseOne Deployment Director application to move any changed objects to the enterprise server.

If you specify a server during the package build definition process, the system automatically creates a corresponding server package in the correct format. If you do not specify a server and define only a workstation package, you should create a corresponding server package. The process is nearly identical to creating a workstation package.

Web servers automatically retrieve the package information from their configured business function logic servers.

See [Chapter 7, “Deploying Packages,” Understanding Deployment to Web Servers, page 145](#).

Replicated Package Build Object	Central Object
F98751<package name>	The F98751 table contains one record for every column, grid line, button, hyperitem, control, and so on, in the application.
F98752<package name>	The F98752 table contains one record for each application. If the application has processing options, that information is also stored in the record.
F98753<package name>	The F98753 table contains one record for each form (and also includes references to the data structures).
F98760<package name>	The F98760 table contains override text for batch reports.
F98761<package name>	The F98761 table contains one record for each section, column, sort, constant, and so on, in Batch Reports and Versions.
F98762<package name>	The F98762 table contains one record for each function in BSFN.
F98770<package name>	The F98770 table contains only one record for each package. This table is empty in Central Objects.
CGTYPE	Code Generator Form Types are stored in specification format only.
DDDICT DDTEXT	One record exists for each data dictionary item that has been just-in-time installed. This is data dictionary text.
GLBLTBL	This cache information from data dictionary and table specifications contains runtime table and override information. This is built dynamically the first time that a table is used.
SMRTTMPL	This is field information required by the data structure.
F9200 F9202 F9203 F9207 F9210	F9200 F9202 F9203 F9207 F9210
NEXTID	The F98701 table contains a local record of next IDs that are assigned to each workstation.

Object	Preserved	Replaced	Comments
Data dictionary overrides.		X	
Location and size changes.		X	In a subsequent release of the software, a new control might be placed in the same location that you have placed a custom control. In this case, the new control appears on top of your custom control. This situation does not affect the event rules or the functions of the application. After the upgrade, you can use Application Design Aid to rearrange the controls.
Sequence changes for tabs or columns.		X	The upgrade process adds new controls to the end of your custom tab sequence. You can review the tab sequence after an upgrade.
Custom forms on existing applications.		X	Instead of adding custom forms to existing applications, create a custom application using system codes 55 through 59, and then place the custom form on that custom application. You can then add to existing applications Form exits and Row exits that call your custom forms within your custom applications. System performance is not adversely affected when you call an external application from a row exit instead of from a form within the application.

Note. None of the custom modifications to the JD Edwards EnterpriseOne applications are preserved during the Batch Specification Merge process. Instead, administrators must manually retrofit the modifications from a JD Edwards EnterpriseOne workstation with the help of Oracle's JD Edwards EnterpriseOne Visual ER Compare and FDA Compare tools when the upgrade is complete.

Reports

For Oracle's JD Edwards EnterpriseOne Report Design Aid specifications, do not delete objects on existing reports. Hide the objects that you do not want to appear. The system might use these objects for calculations or as variables, and deleting them could disable major system functions.

This table describes the report elements that are preserved or replaced during an upgrade:

Object	Preserved	Replaced	Comments
New reports.	X		<p>You can either create a new report or copy an existing report using the Copy feature in Report Design Aid. This feature enables you to copy all the report specifications, including event rules.</p> <p>If you use the Copy feature to copy an existing report for some modifications, during an upgrade your new report does not receive any changes that might have been made to the original report.</p>
New constants added to existing reports.	X		
New alphabetical variables added to existing reports.	X		
New numeric variables added to existing reports.	X		
New data variables added to existing reports.	X		
New runtime variables added to existing reports.	X		
New database variables added to existing reports.	X		
New data dictionary variables added to existing reports.	X		
Style changes.	X		<p>Style changes include fonts and colors. New controls have the standard base definitions. If you have adjusted the default style, you need to also adjust the styles for any new controls that you added to a report.</p>

Object	Preserved	Replaced
All ZJDE and XJDE version specifications.		X
All processing option data for XJDE versions.		X

In addition, processing option data is copied but not converted for non-Oracle versions that use processing option templates. A warning is issued at runtime, and some data might be lost.

Also, event rule modifications for custom versions of JD Edwards EnterpriseOne templates are not reconciled with the parent template.

Business Services

This table describes the business services elements that are preserved or replaced during an upgrade.

Object	Preserved	Replaced	Comments
New custom business service	X		Custom objects are always preserved.
New object within an existing JD Edwards EnterpriseOne business service		X	JD Edwards EnterpriseOne objects are always replaced.
Changed object within an existing JD Edwards EnterpriseOne business service		X	JD Edwards EnterpriseOne objects are always replaced.
Business services selected as web services	X		Within P9603, you select which business services will be exposed as web services. This selection is preserved.

Form	Function
Package Assembly Directory form	Use this form to review introductory information about the Package Assembly Director.
Package Information form	Use this form to enter the package name, description, and corresponding path code.
Package Type Selection form	<p>Use this form to indicate whether you are creating a full or update package.</p> <p>When you create an update package, you must also indicate the parent package on which the update package is based. For example, if you were creating a package to update your original package called APPL_B, you would enter APPL_B as the parent package for your update package.</p>
Foundation Component form	<p>Use this form to enter the location of the foundation. A foundation is the code that is required to run all applications. It is required for all full packages. If you do not specify a foundation path for full packages, the system uses the default foundation path. Update packages use the foundation for the parent package unless you specify another foundation.</p>
Database Component form	Use this form to specify the location of the database to be included in the package. For full packages, if you do not specify a database location, the system uses the default database path. Update packages do not require a database.
Default Object Component form (for full packages only)	Use this form to verify the deployment data source. When you build a full package, the system retrieves the objects that are included in the package from the deployment data source that is associated with the path code that you specified for the package.
Object Component form (update packages only)	<p>Use this form to specify the individual objects that you want to include in the package. You can add any of these objects:</p> <ul style="list-style-type: none"> • Interactive or batch applications • Business functions • Business views • Data structures • Media object data structures • Table definitions
Features Component form	Use this form to include features in your package. A feature is a set of files or configuration options, such as registry settings, that must be copied to a workstation or server to support an application or another feature.
Language Component form	Use this form to include in your package language specifications for a language other than English.

Understanding the Process to Verify a Path Code

The verification process tests the environment, machines, and tables before a package is submitted. By verifying your environment, you eliminate the chance that your package build will fail due to configuration issues. This verification can save many hours in building a package.

During the verification process, the program verifies these items:

- Disk space is adequate.
- Central objects and package build tables are accessible.
- User has permissions to create directories on the deployment server and enterprise server.
- Required service pack is installed.
- Required Microsoft Data Access Components (MDAC) are installed.
- Machine tables are set up.
- Required compiler version is installed.
- Enterprise Server port is accessible.
- Debug levels of the jde.ini files are adequate for the client and enterprise server.

Form Used to Verify a Path Code for Package Assembly

Form Name	FormID	Navigation	Usage
Work with Batch Versions - Available Versions	W98305A	System Administration Tools, Package and Deployment Tools, Package Assembly Select Build Verification from the Form menu.	Verify the path code for package assembly.

Verifying a Path Code for Package Assembly

Access the Work with Batch Versions - Available Versions form.

17. To add a language to the language specifications for your package, double-click its row header in the detail area, and click Next..

If you add a language to your package, only that language will be included. For example, if you add French, English will not be included even though it is the default language. To include two languages (such as French and English), you must select the detail records for both languages.

18. Continue with the task Reviewing the Package Assembly Selections.

Selecting Mobile Packages

Access the Mobile Client Database Revisions form by clicking Next on the Package Type Selection form.

1. Select Build Mobile Client Package if you want to build a mobile package.

If you select this option, the package build program will create a mobile package name by appending M to the name of the existing package. The program also lists the database names and owners of the mobile client databases.

2. Select the MSDE databases that you want to include in the mobile package, and then click Next.

Note. You cannot change the owners of the mobile databases. Deselecting the databases is not recommended unless you are an advanced package build user.

Adding a New Foundation Location

Access the Foundation Item Revisions form by clicking Add on the Foundation Component Selection form.

Foundation Item Revisions form

1. Enter a foundation ID in the Foundation Name field.
This is the code that is required to run all applications. A foundation ID is required for all full packages. For full packages, if you do not select a foundation, the default foundation is used. The default foundation is determined through the release that is associated with the path code for the package. This is normally the system directory at the same directory level as your path code. The foundation must be compressed when built.
2. Enter a service pack number in the Service Pack Number field, if appropriate.
A service pack is an update to the foundation code that is delivered between major releases and cumulative releases of the software.
3. Enter the release number with which this foundation is associated in the Release field.
4. Enter the host machine type in the Platform Type field.
5. Enter the compiler configuration to use for the software build in the Build Type field.
6. Enter the current status of the build process for foundation in the Foundation Build Status field.
7. Enter the date that the software build finished in the Date Built field.
8. Enter the time at which the software build finished in the Time of Build field.
9. Enter the name of the deployment server where your custom foundation resides in the Foundation Machine Key field.

Understanding Express Mode

Express mode enables you to accept default values for the package assembly and then selectively choose which forms to view and modify. This may be preferable if you are familiar with the JD Edwards EnterpriseOne Package Assembly application and do not want to view and click Next through all of the Package Assembly forms.

When you select Express mode, you access the Package Component Revisions form, from which you can access the appropriate forms for the components that you want to update.

The JD Edwards EnterpriseOne Package Assembly application (P9601) is in Express mode by default. This can be changed to Director mode through a processing option.

See [Chapter 4, “Assembling Packages,” Using Director Mode to Assemble a New Package, page 42](#).

Understanding the Activation Process

After you have assembled a package, the package status remains at Assembly. While you define the package, it is inactive. You must activate the package to change the package status to Assembly-Definition Complete. An assembled package cannot be built until the status has been changed to Assembly-Definition Complete. The Assembly-Definition Complete status indicates that you are finished assembling the package and are ready to begin the build definition process.

You can change the package status at any time until you start the build definition process. That is, even after you have changed a package status to Assembly-Definition Complete, you can change the status back to In Definition if you need to revise the assembled package. When you are ready to define the build for the package, follow the steps described in Defining Package Builds.

Form Used to Activate an Assembled Package

Form Name	FormID	Navigation	Usage
Work with Packages	W9601L	Package and Deployment Tools (GH9083), Package Assembly Select the package that you want to activate, and select Active/Inactive from the Row menu.	Activate the package. You can use this same process to change the status of a complete package back to In Definition.

ODBC data sources have two sections in the feature.inf. One section contains header information and the other contains the detail information. The feature.inf contains one header section listing all data source components that are included in the feature. For each data source that is listed in the header, a corresponding detail section exists. Only the header section is described in this table. For information about the detail section, see the documentation for the selected ODBC Driver.

The settings for this section are displayed in this order: *DataSourceName=DataSourceDriver*

Item	Purpose
<i>DataSource Name</i>	The name of the ODBC data source.
<i>DataSource Driver</i>	The driver that is used for the data source.


```
java
lib32
make
obj
res
source
spec
work
mobilespec
mobiledb
pkgspec
bin32
include
java
lib32
make
obj
res
source
work
```

When you build a package, the directories under the package name are populated. Files for the source and include directories are copied from the path code check in location on the deployment server to the corresponding package folder. Information for all other directories comes from central objects. The bin32, lib32, and obj directories are populated with the output of the business function build process.

Note. Normally, packages are built in subdirectories under the package name on the deployment server. However, the spec repository and the mobile database are created on the build machine because Microsoft Server Desktop Engine (MSDE) databases cannot be created across the network.

Package Build Tasks

The process that you perform to build a package might take several hours. For this reason, it is recommended that you initiate the actual package build at the end of the working day, if possible. Complete these tasks when you build a package:

- Transfer objects.

Ensure that all of the objects that you want to include in the build have been transferred to the appropriate path code.

- Ensure that the database for the package has the most current replicated data.

Do not modify JD Edwards EnterpriseOne demo versions, which are identified by ZJDE or XJDE prefixes. Copy these versions or create new versions to change any values, including the version number, version title, prompting options, security, and processing options.

Processing Tab

Although processing options are set up during JD Edwards EnterpriseOne implementation, you can change processing options each time you run a program.

- | | |
|------------------------------------|---|
| 1. Changes | Enter a value to determine how changes will occur.

<Blank> means that changes will only be allowed at the package level and will apply to all servers selected.

Enter <i>1</i> to enable changes to the build definitions by individual server. |
| 2. Mastering | Mark this processing option with a <i>1</i> if this process is for Mastering purposes. If the process is for all users, mark this processing option with <Blank>. |
| 3. Build Verification | Mark this processing option with a <i>1</i> if the Build Verification UBE is to be run prior to building all packages. If the build verification fails, the package build UBE will not be run. Leave this processing option <Blank> if you do not want to run Build Verification. |
| 4. Director or Express Mode | Use this processing option to switch between Director and Express modes. |

Defining a Package Build

Access the Package Selection form.

See [Chapter 5, “Understanding the Package Build Process,” Jde.ini Settings for Server Package Builds, page 58.](#)

18. To compress a package, click Compress Options and select All Directories.

This selection compresses the client and server packages. The system compresses the client package to the deployment server. It compresses the server package on the enterprise servers and copies the files to the deployment server.

19. Click Next.

If you chose to compress individual directories, the Individual Directory Selection form appears.

20. On the Individual Directory Selection form, indicate that you want to compress a directory by clicking its option to select it and click Next.

You can select multiple options.

21. If the package does not include features, skip to the next task.

22. On the Build Features form, if you want to build a feature.inf file with the package, select the Build Feature INFs option.

When you select this option, the Compress and Build options become available.

See [Chapter 6, “Building Packages,” Configuring Features During the Package Build Definition, page 112.](#)

23. Click Next.

24. Review the package build selections and click End.

Reviewing Package Build Selections

Access the Package Build Revisions form.

2. Select Submit Build from the Row menu when you are ready to initiate the package build.
3. Select one of these options and click OK.
 - On Screen
 - To Printer

The form closes and the system begins building the package. Build time varies, depending on the number and size of the items in the package. A build could take five minutes for a small package, or several hours for a full package that contains all applications. When the build finishes, the report either appears on the screen or prints, depending on the destination that you specified.

4. Review the report to make sure that all components in the package were built successfully.

If the report indicates any errors, review the error logs for more detail.

If the package build finishes successfully, you can schedule the package for deployment.

Incorporating Features into Packages

This section provides overviews of the feature build and deployment process and the JD Edwards EnterpriseOne Feature Based Deployment Director and discusses how to:

- Create a feature.
- Define a file set.
- Define a registry setting.
- Define a shortcut.
- Define additional package build processes.
- Define additional install processes.
- Define an initialization file.
- Define a new open database connectivity (ODBC) data source.
- Import an existing ODBC data source.
- Review feature components.
- Copy features.
- Add a feature to a package.
- Configure features during the package build definition.
- Configure features for an existing package build definition.

Understanding the Feature Build and Deployment Process

A feature is a set of files or configuration options, such as registry settings, that is copied to a workstation or server to support an application or other functions. Like objects, features are built into a package and deployed to the workstations and servers that require the feature components.

Understanding the Feature Based Deployment Director

The JD Edwards EnterpriseOne Feature Based Deployment Director enables you to define the feature so that it can be included in a package and then deployed to workstations and servers. The forms in the director enable you to specify the name and type of the feature, as well as the different feature components. The Feature Information form enables you to select the types of components to include in the feature, and determines the subsequent forms that appear in the JD Edwards EnterpriseOne Feature Based Deployment Director.

For this release, the Platform value must always be 80 for CLIENT. Future releases will enable you to select alternative platforms.

Throughout the feature definition process, you can always proceed to the next or previous form by clicking Next or Previous. Also, regardless of where you are in the process, you can always cancel the feature definition by clicking Cancel.

Copying a Feature Definition

The JD Edwards EnterpriseOne Feature Based Deployment Director includes a copy function that enables you to copy an existing feature and rename it as a new feature. This feature is especially useful if you want to create a feature definition that closely matches an existing feature definition.

Forms Used to Incorporate Features into Packages

Form Name	FormID	Navigation	Usage
Feature Information	W9326C	Package and Deployment Tools (GH9083), Package Assembly Select Features from the Form menu. Click Add. Click Next.	Define a feature and add one or more components to the feature.
File Set Definition	W9326J	From the Feature Information form, select File Set and click Next.	Enter information about any file sets that must be installed on the workstation or server for the feature to function properly. A file set is a collection of files that must be installed on the workstation or deployment server for the feature to function correctly.
Registry Definition	W9326D	From the Feature Information form, select Registry and click Next until the Registry Definition form appears.	Enter information that should be added to the Microsoft Windows registry as part of the feature installation. Registry information that you enter on this form will be delivered in the package that contains the feature.

Page Name	Object Name	Navigation	Usage
Shortcut Definition	W9326G	From the Feature Information form, select Shortcut and click Next until the Shortcut Definition form appears.	Use this form to add a shortcut for the feature to the Windows desktop. The system creates a shortcut on the desktop after the feature is installed.
Shortcut Advanced Options	W9326P	From the Shortcut Definition form, select Advanced from the Form menu.	Enter advanced shortcut options.
Additional Package Build Processes	W9326H	From the Feature Information form, select Additional Package Build Processes and click Next until the Additional Package Build Processes form appears.	Specify a batch application or executable program to run either before or after the package that contains the feature is installed.
Additional Install Processes	W9326K	From the Feature Information form, select Additional Install Processes and click Next until the Additional Install Processes form appears.	Enter information about third-party applications that should be run when the package is installed.
Initialization File (INI) Definition	W9326I	From the Feature Information form, select Initialization Files (INI) and click Next until the Initialization File (INI) Definition form appears.	Enter information that should be written to an initialization file (such as jde.ini) as part of the feature installation. The INI file is automatically updated when the package is installed.
ODBC Data Source Definition	W9326N	From the Feature Information form, select ODBC Data Sources and click Next until the ODBC Data Source Definition form appears.	Enter information for any ODBC data sources that must be added to support the feature.
Local Data Sources	W9326O	On ODBC Data Source Definition, select Import from the Form menu.	Select previously created data sources that reside locally on your machine.
Features Summary	W9326L	From the Feature Information form, click Next and add the each feature component. After you add all the components, the wizard displays the Features Summary form.	Review and modify information that you entered on any of the Feature Based Deployments forms.

Page Name	Object Name	Navigation	Usage
Feature Copy	W9326M	<p>Package and Deployment Tools (GH9083), Package Assembly</p> <p>Select Features from the Form menu.</p> <p>Select the feature from which to copy the definition, and click Copy.</p>	<p>Copy an existing feature and rename it as a new feature. This function is useful if you want to create a feature definition that closely matches an existing feature definition.</p>
Feature Component Selection	W9601AB	<p>Package and Deployment Tools (GH9083), Package Assembly</p> <p>Click Add to create a new package.</p> <p>Enter the forms in the Package Assembly Directory until the Features Component form appears.</p> <p>Click Browse.</p> <p>Package and Deployment Tools (GH9083), Package Assembly</p> <p>Select a package and then select Package Revisions from the Row menu.</p> <p>On Package Component Revisions, click the Features button.</p> <p>To add a feature, click Browse.</p>	<p>Add defined features to a new package.</p> <p>Add defined features to an existing package that is open for revision.</p>
Build Features	W9621B	<p>Package and Deployment Tools (GH9083), Package Build</p> <p>Click Add to launch the Package Build Definition Director.</p> <p>Click Next and complete the screens until you come to the Build Features form.</p> <p>Package and Deployment Tools menu (GH9083), Package Build Find and select the package that contains features.</p> <p>Select Build Revisions from the Row menu.</p> <p>Click the Build Features tab.</p>	<p>Enables you to specify whether the system builds feature INF files for the features in the package. If you defined a fileset component in the feature, you can select to compress it. If any additional package build processes are included in the feature, you must click Build Processes and select them before they will run during package build.</p>

Creating a Feature

Access the Feature Information form.

Feature Information form

Feature	Enter a name for the feature.
Feature Type	Enter the feature type, if applicable.
Description	Enter a description of the feature.
Required	Select this option if the installation of this feature is mandatory for both Compact/Production and Typical/Development installs. Inclusion of this feature cannot be overridden when the package is installed.
Not Required	Select this option if the installation of this feature is optional. Whether the feature is installed depends on the options that you select (Compact/Production and Typical/Development). Inclusion of the feature can be overridden when the package is installed.
Compact/Production	Select this option if this feature is to be included in a Compact/Production install by default. This option can be overridden when the package is installed if Not Required is also selected.
Typical/Development	Select this option if this feature is to be included in a Typical/Development install by default. This option can be overridden when the package is installed if Not Required is also selected.

Note. You can also use this form to modify or delete any previous registry definitions. Existing registry definitions appear in the tree structure on the right side of the form. To modify a registry definition, select the item on the tree structure and modify any of the fields for the registry definition. To delete a registry definition, select the item and click Delete.

Always select Save Node from the Form menu when you are finished entering registry information.

Defining a Shortcut

To define a shortcut component, you enter a shortcut definition, and then you can enter advanced shortcut options.

Entering a Simple Shortcut Definition

Access the Shortcut Definition form.

The screenshot shows the 'Package Assembly - [Shortcut Definition]' window. The menu bar includes File, Edit, Preferences, Form, Window, and Help. The toolbar contains icons for Find, Delete, Close, Save, New, Prev, Next, and others. The main area is divided into two sections. The top section contains fields for Feature (FEAT01), Feature Type (1), and Platform (80). The bottom section contains fields for Shortcut, Name, and Target. On the right side, there is a tree structure showing FEAT01.

Shortcut Definition form

Shortcut	Enter a name that identifies a unique shortcut to a user's computer.
Name	Enter the name of the shortcut.
Target	Enter the path and file name of a target file.

Entering Advanced Shortcut Options

Access the Shortcut Advanced Options form.

The screenshot shows a window titled "Package Assembly - [Shortcut Advanced Options]". It features a standard menu bar with "File", "Edit", "Preferences", "Window", and "Help". Below the menu is a toolbar with icons for "OK", "Cancel", "Dismiss", and "Abort". There are also tabs labeled "Links", "Displ...", "OLE ...", and "Internet". The main content area is divided into sections with labels and input fields: "Shortcut" (containing "SHORTCUT"), "Arguments" (empty), "Description" (empty), "Hot Key" (containing "0"), "Icon" (empty), "Icon Index" (containing "0"), "Show Command" (empty), and "Work Directory" (empty). A small globe icon is visible in the bottom right corner of the dialog.

Shortcut Advanced Options form

Arguments	Enter the parameters that are entered at the command line for the shortcut.
Description	Enter a description of the shortcut.
Hot Key	Enter a key sequence that, when pressed, automatically launches the shortcut.
Icon	Enter the path and name of the icon file, based on a relative target path.
Icon Index	Enter the icon index for a shortcut.
Show Command	Specify the size of the window after the shortcut is launched. For example, the window might be minimized or maximized.
Work Directory	Enter the identifier of the directory path or the working directory of a shortcut.

Defining Additional Package Build Processes

Access the Additional Package Build Processes form.

Additional Package Build Processes form

Process Name	Enter the name of the build process.
Description	Enter a description of the build process.
Sequence	Enter a number to identify the order in which the process will be run relative to the other processes that run during the package build.
Synchronous Execution	Select this option to indicate whether the package build job waits for the process to finish before it continues.
Batch Application or Executable	Specify whether the process is an application or an executable.
UBE Name	Enter the name of the batch application. Only applies if batch application was selected.
UBE Version	Enter the version of the batch application. Only applies if batch application was selected.
Machine Name	Enter the name of the server or workstation on which the batch application will run. Only applies if batch application was selected.
Executable Name	Enter the name of the executable program that the system launches to install the third-party software. Only applies if executable program was selected.

Target Path	Enter the path and file name of a target file. Only applies if executable program was selected.
Parameters	Enter the executable parameters that the setup program uses to install the third-party software. Only applies if executable program was selected.

Note. You can also use this form to modify or delete any previously defined processes. Existing processes appear in the tree structure on the right side of the form. To modify a process definition, select the item on the tree structure and modify any of the fields for the definition. To delete a process definition, select the item and then select Delete or Delete Node After from the Form menu, depending on whether you want to delete a process that is executed before or after the feature is installed. You can run the process either before or after the feature is built. When you are finished adding process information, select either Save or Save Node After from the Form menu, depending on when you want the process to run.

Defining Additional Install Processes

Access the Additional Install Processes form.

Additional Install Processes form

Third Party	Enter the name of the third-party component.
Description	Enter a description of third-party software.
Sequence	Enter a number to identify the order in which this process will run relative to the other additional install processes.

Synchronous and Execute After Install	Clear the Simultaneous Execution option and select the Execute After Install option. The third-party process waits for the JD Edwards EnterpriseOne client install to finish before running.
Synchronous and Execute Before Install	Clear the Simultaneous Execution option and select the Execute Before Install option. The JD Edwards EnterpriseOne client install will run the third-party process and wait until it finishes before installing the client.
Asynchronous and Execute After Install	Select the Simultaneous Execution option and the Execute After Install option. The JD Edwards EnterpriseOne client install finishes, and then starts the third-party process. Neither process waits for the other to finish before proceeding.
Asynchronous and Execute Before Install	Select the Simultaneous Execution option and the Execute Before Install option. The JD Edwards EnterpriseOne client install begins, and then immediately starts the third-party process and resumes the client install without waiting for the third-party process to finish.
Executable Name	Enter the name of the program that launches the third-party software.
Target Path	Enter the path to the executable file. Do not include the name of the file.
Parameters	Enter the executable parameters that the system passes to the third-party program.

Note. Select Save from the Form menu when you finish adding third-party product information.

Defining an Initialization File

Access the Initialization File (INI) Definition form.

Initialization File (INI) Definition form

Initialization INI	Enter the identifier of an initialization file component.
File Name	Enter the name of the initialization file.
Target Path	Enter the path of the INI file.
Section Name	Enter the name of the application section in an initialization file.
Key Name	Enter a key in the initialization file that is to be added, modified, or removed.
String	Enter the value of the key in an initialization file.
Option	Enter the option that identifies the action associated with the key in the initialization file.

Note. You can use this form to modify or delete any previous initialization file definitions. Existing definitions appear in the tree structure on the right side of the form. To modify an initialization file definition, select the item in the tree structure and modify any of the fields for the definition. To delete an initialization file definition, select the item and click Delete.

When you finish adding initialization information, select Save Node from the Form menu.

Defining a New ODBC Data Source

Access the ODBC Data Source Definition form.

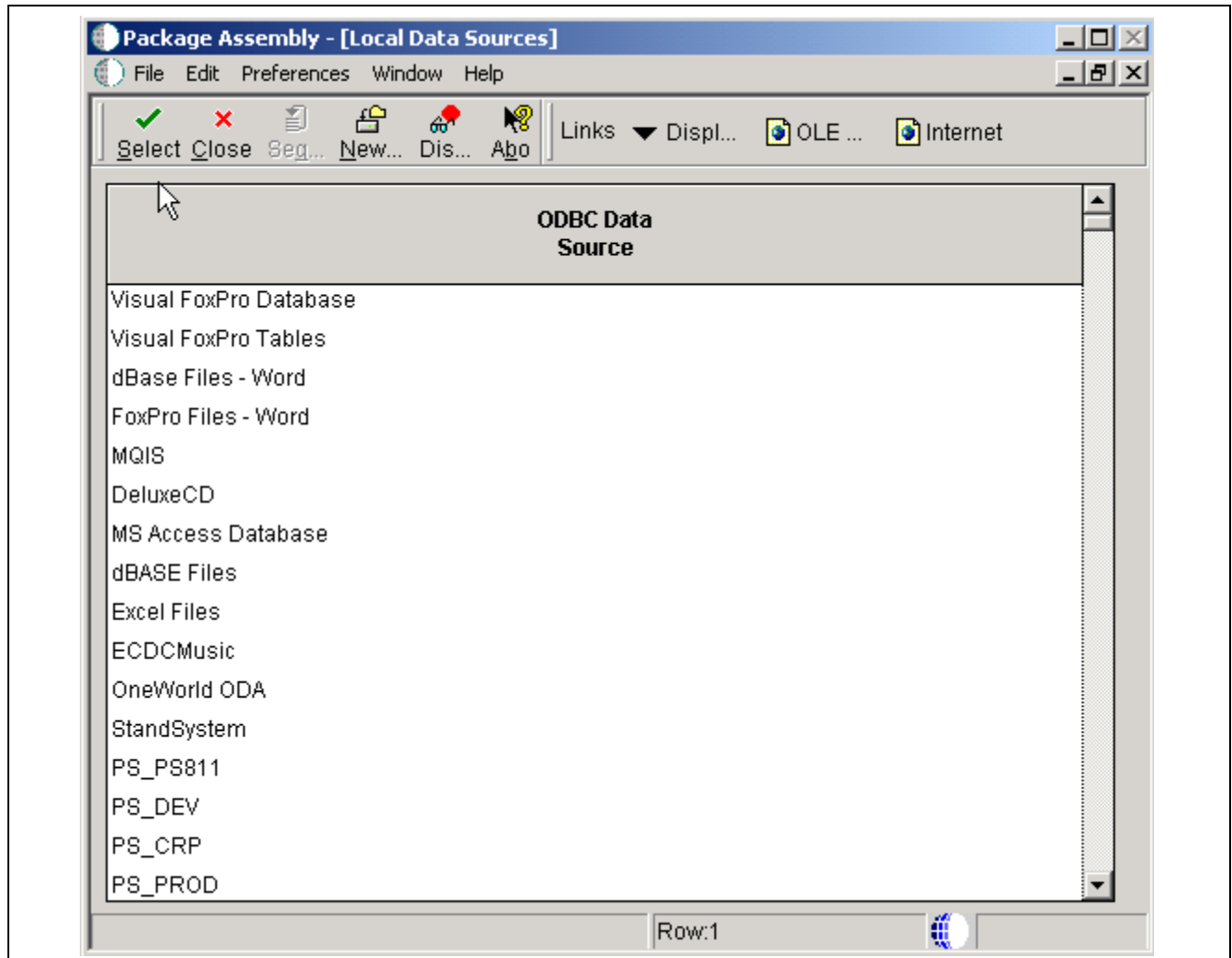
ODBC Data Source Definition form

ODBC Data Source Enter the name of the data source.

Note. When you select Save Node from the Form menu, the system activates the Microsoft Windows control panel applet that displays the ODBC Data Source forms where you can enter the data source information.

Importing an Existing ODBC Data Source

Access the Local Data Sources form.

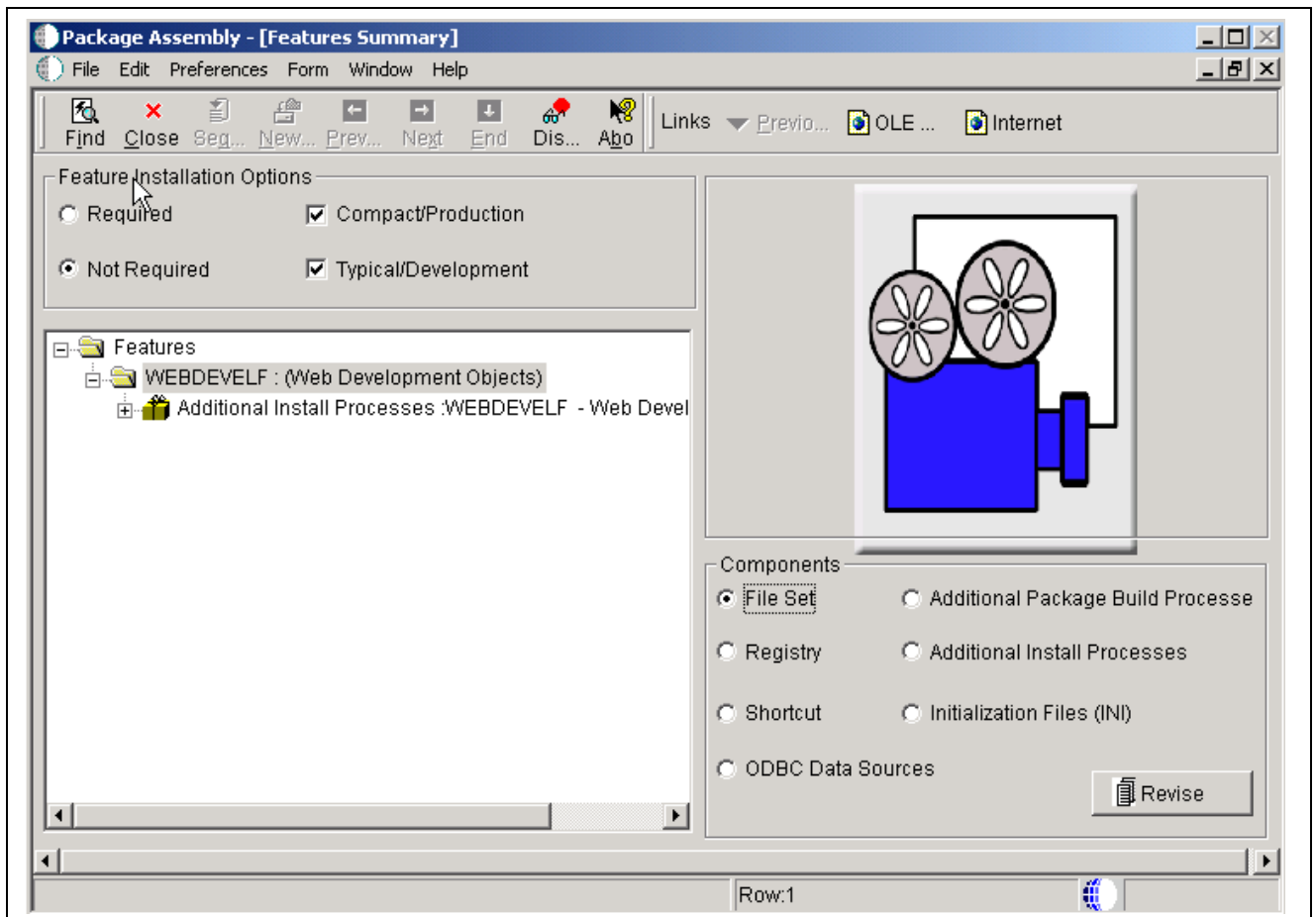


Local Data Sources form

1. Press the CTRL or SHIFT key to select one or several data sources, and click Select to add the data sources to the feature.
The ODBC Data Source Definition form reappears.
2. When you are finished adding data source information, select Save Node from the Form menu.
3. Click Next.
4. To modify existing data sources, enter the data source name and then select Modify from the Form menu. The ODBC Data Source Revisions form appears. Use this form to make changes to the data source.
5. When you are finished, click OK to return to the ODBC Data Source Definition form.

Reviewing Feature Components

Access the Features Summary form.



Features Summary form

1. Select a component in the right pane and click the Revise button to review the information for that component.
2. If needed, change the field values for the selected component and click Save.
3. Repeat the previous steps to modify other components.
4. When you are finished defining the feature, click End.

See Also

[Chapter 4, “Assembling Packages,” Revising an Existing Package, page 50](#)

Copying Features

Access the Feature Copy form.

Package Assembly - [Feature Copy]

File Edit Preferences Window Help

OK Cancel Dismiss Abort Links Displ... OLE ... Internet

Feature

Feature Type PeopleSoft Mobile

Description

Platform Client - NT

Feature Installation Options

☐ Required ☒ Compact/Production

☒ Not Required ☒ Typical/Development

Preview: A blue machine with two circular components.

Feature Copy form

- Complete these fields:
 - Feature
 - Feature Type
 - Description
- Select one of these options:

Option	Description
Required	The installation of this feature is mandatory for both Compact/Production and Typical/Development installs. Inclusion of this feature cannot be overridden when the package is installed.
Not Required	The installation of this feature is optional. Whether the feature is installed depends on the options that you select (Compact/Production and Typical/Development). Inclusion of the feature can be overridden when the package is installed.

- Select one or both of the options that follow.
If you chose Required, both of these options are automatically selected.

- Compact/Production

When selected, this feature is included in a Compact/Production install by default. This option can be overridden when the package is installed if Not Required is also selected.

- Typical/Development

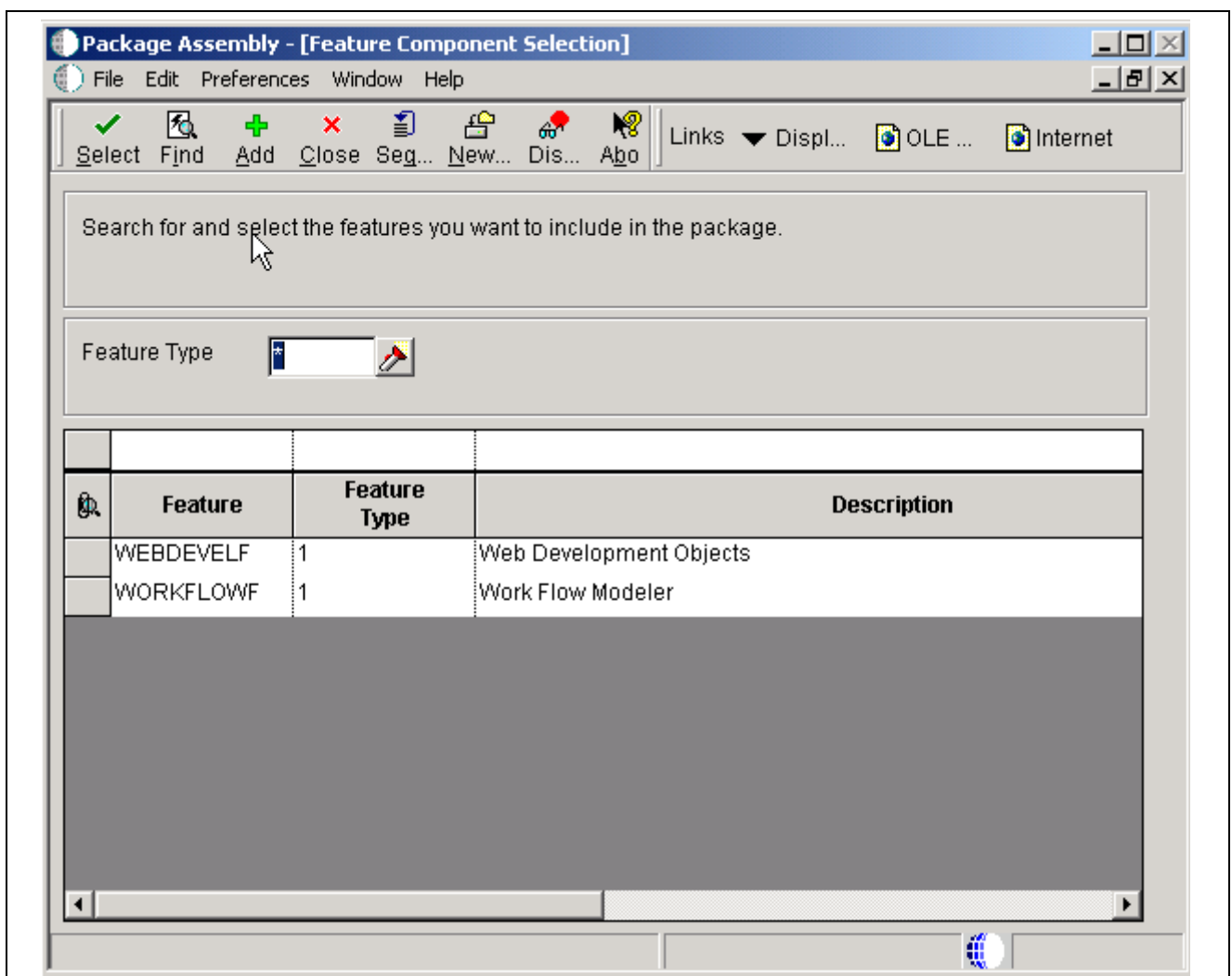
When selected, this feature is included in a Typical/Development install by default. This option can be overridden when the package is installed if Not Required is also selected.

4. Click OK.

5. To revise the new feature definition, select the feature and select Revise Feature from the Form menu.

Adding a Feature to a Package

Access the Feature Component Selection form.



Feature Component Selection form

1. Click Find to display the list of available features.

Note. Before a feature is available for inclusion in the package, you must first define the feature.

2. Use one of these methods to select one or more features to include in the package:
 - Select a feature and click the Select button.
(Press the CTRL or SHIFT key to select multiple features.)
 - Double-click each feature.
3. When you are finished adding features, click Close to return to the Features Component form. The selected features appear.
4. Click Next and complete the remaining forms to finish assembling the package.

Note. To delete a feature that was previously included in the package, on the Features Component form select the feature and then click Delete.

Configuring Features During the Package Build Definition

Access the Build Features form.

Build Features form

1. If you want to build a feature.inf file with the package, select Build Feature INFs.
When you select this option, the Compress and Build fields become available if file sets or additional package build process components are included in the package.

2. Continue with one or both of these tasks:
 - To compress file sets
 - To build processes
1. Select Compress, and then select Compress File Sets from the Form menu.
2. On the File Set Selection form, select each feature that you want to include by choosing a file set and clicking Select.
3. When you are finished selecting file sets, click Close.
4. Continue either by performing the next steps, or by clicking Next and completing the remaining forms to finish defining the package build.
5. To build processes, select Build, and then click Select Build Processes.
6. On the Build Processes Selection form, select each process that you want to build by choosing a process and clicking Select.
7. When you are finished selecting processes to build, click Close.
8. From the Form menu, select Build Processes and manually select each process to run during the package build.

You must complete this step or none of the processes will run, even though they are included in the feature.
9. Click Next and complete the remaining forms to finish defining the package build.

Configuring Features for an Existing Package Build Definition

Access the Build Features form.

1. Modify or add to any of these existing build feature settings:
 - Build Feature INFs
 - Compress
 - Build
2. If you select Compress, select Revise File Sets from the Form menu to modify file sets.
3. When you are finished modifying file sets, click Close.
4. If you chose Build, click Revise Processes to modify processes.
5. When you are finished modifying processes, click Close.
6. If you selected Build, from the Form menu, select Build Processes and manually select each process to run during package build.

You must complete this step or none of the processes will run, even though they are included in the feature.
7. Click OK to complete the package build definition.

Viewing Package Build Records and Resubmitting Builds

This section provides overviews of package build history and the build status and discusses how to:

- View the package build history.
- View log files.
- Resubmit a package build.
- Change the build status.
- Reset the specification build and package build statuses.

Understanding Package Build History

The JD Edwards EnterpriseOne Package Build History program (P9622) enables you to view information pertaining to the build process, including the options and objects that you specified when you created the build definition. This program provides this build information:

- Package name.
- Path code.
- Date and time built.
- Name of the server for which the package was built.
- Current build status and status description.
- Current status of selected specification tables.
- Number of specifications written.
- Package records written and read.

The View Logs option on the Form menu enables you to view four logs that contain additional information about the build process. Refer to these logs in the event that the build does not finish successfully and you need to review the errors that occurred during the build.

If a build does not finish successfully, you can use the Resubmit Build option to resume the build from the point at which the process stopped. Only the business functions and objects that did not build successfully will be built; the entire package will not be rebuilt.

In some cases, if a build is interrupted or otherwise unable to finish, you might need to reset the build status from Build Started to Build Definition Complete. Unlike the Resume Build feature, which continues the build from the point at which it failed, resetting the status enables you to start the build process from the beginning.

F96225 Table

The system maintains a history of the package build in the F96225 table. This table contains details about the package build statuses of any package components.

If you encountered errors during the build process and the package failed to build successfully, you can resubmit the package and continue building from the point at which the build failed. In this situation, the system reviews the F96225 table and rebuilds only the business functions or other package components that have a status of Not Built or Error. It does not build the entire package. This feature can save you a tremendous amount of time, especially if only a few package components failed to build successfully.

If you originally specified package compression, when you resubmit the package to resume building, the system automatically compresses the directories after it successfully builds the package.

Logs

After you build the package, you can view logs that list any errors that occurred during the build process. In particular, you can view these logs:

- Package statistics log.
- Package build log.
- Business function errors log.
- Missing business function source errors log.

Each log contains a header, which includes the package name, date, build machine, and path code.

Where to Find the Error Logs

To review error logs without using Oracle's JD Edwards EnterpriseOne Package Build History program (P9622), locate the desired log in the correct directory. Error logs are stored on the deployment server in directories that are subordinate to the directory for the package itself. The package build log is stored in the package directory. The package statistics log, business function source errors log, and missing business function source errors log are stored in the work directory for the package.

You can view the error logs by accessing the appropriate directory and opening the log with Microsoft Notepad or a similar application that enables you to display text files.

In these examples, PD812FA is used as the package name. To determine the actual directory, substitute the package name for PD812FA.

- Package statistics: \PD812FA\work\buildreport.log
- Client package build log: \PD812FA\clientpkgbuild.log
- Server package build log: \PD812FA\svrpkgbuild.log
- Mobile object list log: \PD812FA\work\mobileobjectlist.txt
- Business function errors log: \PD812FA\work\buildlog.txt
- Missing business function source log: \PD812FA\work\NoSource.txt

Package Statistics Log

The package statistics log summarizes the outcome of the package build, showing statistics for the directories in the package, including the size and file count of each directory. This log displays a complete build that you can use to review the build directories. The report shows a breakdown of the files in the specifications directory and the size of each spec file, as well as the total count and size. You can use this log to verify that the package built successfully.

Client Package Build Log

The client package build log lists the steps completed in building the client package, as well as any errors that occurred during the process. The first page of the build log will identify the compiler version used by the package (for example, "Microsoft Visual Studio Version being used: 8"). The final page tells you whether the package was built successfully. This log file is created for a client-only or client/server package.

Server Package Build Log

The server package build log lists the steps completed in building the server package, as well as any errors that occurred during the process. The final page tells you whether the package was successfully built and deployed. This log is created for a server-only or client/server package.

Mobile Object List Log

The mobile object list log lists all the mobile objects whose specifications are included as part of the mobilespec database. It lists all mobile applications, client-only named event rules (NERs), and mobile Universal Batch Engines (UBEs) that are part of the mobilespec repository.

Business Functions Errors Log

The business functions errors log enables you to view any errors that occur while business functions are being built. The final page of the log describes whether the business functions were successfully built or were built with errors. Business functions that appear on this report might be business functions that are still in development and have not yet been checked in. Business functions that have never been checked in do not have source, and therefore, are listed in the missing business function source errors log.

Missing Business Function Source Errors Log

The missing business function source errors log describes any business functions in the package that are defined in the Object Librarian and have a record, but could not be built because no source existed.

Server Logs

All compile logs for the enterprise server are located on the server itself in the source directory of the DLL in which the object belongs. For example, suppose that you want to see the log for the Sales Order Entry Master Business Function (B4200310) in the package PACKAGE1 on an HP 9000 for which the BuildArea is /u02/jdedwards/packages. The system creates a file called /u02/jdedwards/packages/PACKAGE1/CompileLogs/CDIST/b4200310.log (or b4200310.err if there are errors) because B4200310 is in the CDIST.DLL.

If the system could not link the CDIST.DLL (shared library) on the HP 9000, it would create a file called /u02/jdedwards/packages/PACKAGE1/obj/CDIST/CDIST.log.

On the iSeries, logs for business functions that failed to compile are members in a file called FAILED in the package library. Using the previous example, you would review member B4200310 of the FAILED file in library PACKAGE1.

Understanding the Build Status

In some cases, you might need to rebuild the package rather than resume the build from the point at which the build failed. Before you can do so, you must change the status of the package build from *Build Started* to *Build Definition Complete*.

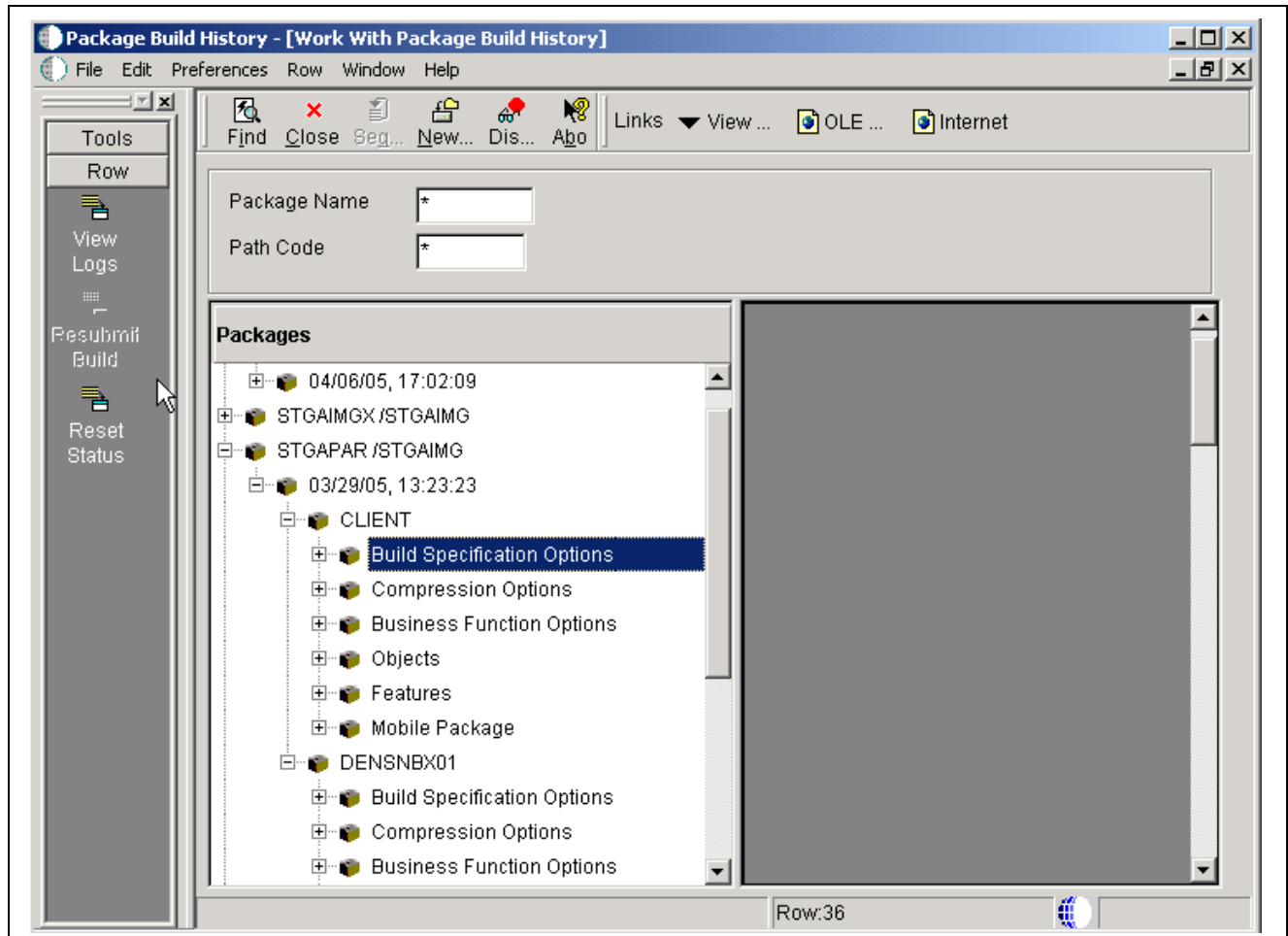
When you reset the status of the package build, you can reset the status for the server only or for all servers and client workstations for which you want to build the package.

Forms Used to View Package Build History and Logs

Form Name	FormID	Navigation	Usage
Work With Package Build History	W9622A	Package and Deployment Tools (GH9083), Package Build History	Display information about the current build status and build options for selected computers.
View Logs	W9622B	Package and Deployment Tools (GH9083), Package Build History Select View Logs from the Form menu.	Check logs for errors that occurred during the build process.
Work with Package Build Definition	W9621L	Package and Deployment Tools (GH9083), Package Build W9621L	Change the package build status.
Reset Build Status	W9622C	From Work with Package Build History, find the package for which you want to reset the statuses, expand the package, and select an individual item. Select Reset Status from the Row menu.	Reset the spec status and pack status for a package to the statuses that you specify.

Viewing the Package Build History

Access the Work With Package Build History form.



Work With Package Build History form

1. Select `CLIENT` or the server or the spec data source to display information about the current build status for those computers.

You can also expand the tree to view this information:

- Build specification options
- Compression options
- Business function options
- Objects

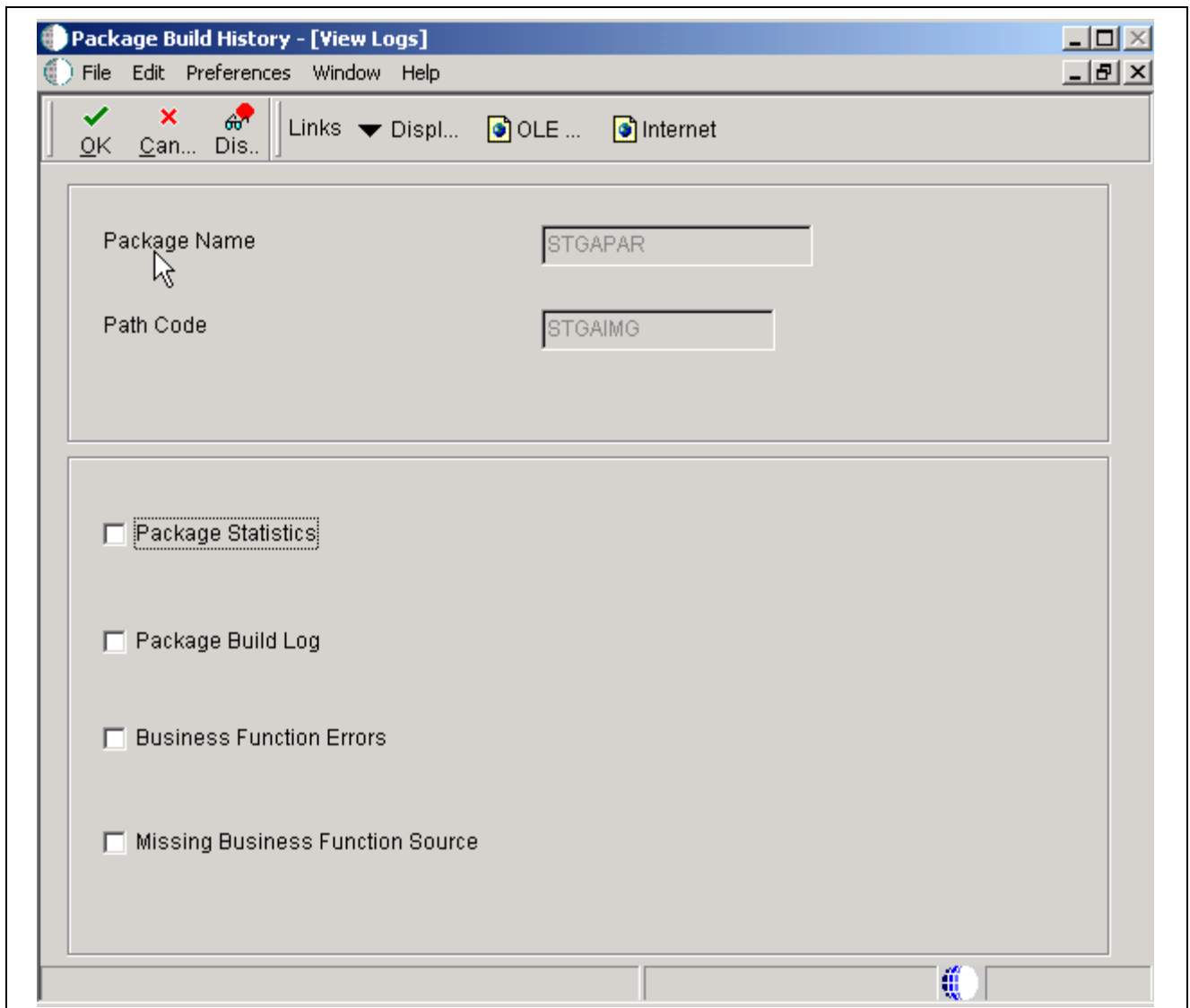
These options and objects are those that you specified when you created the build definition for the package. For example, if you chose to build only selected specifications, you can determine the status for each specification, as well as other pertinent information.

Note. Only specification options are built in the spec data source.

2. When you are finished viewing build history information, click Close.

Viewing Log Files

Access the View Logs form.



View Logs form

Package Statistics	Select this option to be able to view count and size statistics for the package directories that were built.
Package Build Log	Select this option to be able to view errors that may have occurred during a package build. These errors could have occurred while building the specification files or the objects for the package.
Business Function Errors	Select this option to be able to view the results of the business function build for this package. Both errors and warnings display in this report. A summary appears at the end of the report that indicates how many errors and warnings occurred for each dll. Use this information to determine if a rebuild is necessary.
Missing Business Function Source	Select this option to see a list of all source members that were not available when the business function was created. The program attempted to find these members because each had a record in the F9860 table. However, a matching source could not be found in the source directory. To resolve these errors, either delete the Object Librarian record or provide a source member.

Resubmitting a Package Build

Access the Work With Package Build History form.

1. Select one of these options to find the package you want to resubmit:
 - Select a specific server to resubmit only the builds for that server.
 - Select the CLIENT heading to resubmit only the workstation builds.
2. Select Resubmit Build from the Row menu.

If you generated NERs when you initially submitted the build, the system displays a window that asks whether you want to regenerate the NERs.

3. Click OK to regenerate NERs, or click Cancel to skip this process.

Note. If you do not want to regenerate NERs, you can prevent this window from appearing by entering 2 in the Generate NER processing option for the Package Build History program.

4. Select one of these destinations for the build report, and click OK:

- On Screen
- To Printer

The form closes, and the system begins to build the package. Build time varies, depending on the number and size of the items in the package. When the build is finished, the report either appears on the screen or prints, depending on the destination you specified.

5. Review the report to verify that the system successfully generated all components in the package.

If the report indicates any errors, review the error logs for more detail.

See Also

Chapter 7, “Deploying Packages,” page 123

Changing the Build Status

Access the Work with Package Build Definition form.

1. Find the package for which you want to reset the status.

Below the package name, select the server or servers and client workstation for which you want to build the package.
2. From the Row menu, select Advanced.
3. On the Advanced Revisions form, click Reset to change the status of the package build from *Build Started* to *Build Definition Complete*.
4. Click OK.
5. If desired, select the package name and select Submit Build from the Row menu.
6. The program asks whether you want to delete the current build or to continue without deleting it; select one.

Resetting the Specification Build and Package Build Statuses

Access the Reset Build Status form.

1. Enter the desired statuses in the Spec Build Status and Pack Build Status fields.

Both of these fields have a visual assist feature to help you determine the available statuses.

Note. The values of these two fields are dependent on each other. If you change one value, be sure you understand the dependency on the other value.

2. Click Reset.
3. Click OK.

CHAPTER 7

Deploying Packages

This chapter provides an overview of package deployment and discusses how to:

- Define deployment parameters.
- Work with package deployment.
- Deploy server packages.
- Use push installation.
- Install workstations from CD.

Understanding Package Deployment

After you assemble and build a package, you can select from several methods of deploying the package to workstations and servers throughout the enterprise. For workstations, the method that you select depends on whether Oracle's JD Edwards EnterpriseOne is already installed on the workstation.

This section discusses:

- Deploying to workstations without JD Edwards EnterpriseOne.
- Deploying to workstations with JD Edwards EnterpriseOne already installed.
- Deploying to servers.
- Deploying to tiered locations.
- Deploying to workstations from CD.

Deploying to Workstations Without JD Edwards EnterpriseOne

If JD Edwards EnterpriseOne is not currently installed on a workstation, you can deploy the package through Oracle's JD Edwards EnterpriseOne Workstation Installation program. You can use JD Edwards EnterpriseOne Workstation Installation to deploy full packages, but you cannot use JD Edwards EnterpriseOne Workstation Installation to deploy an update package to a workstation on which JD Edwards EnterpriseOne is not installed.

JD Edwards EnterpriseOne Workstation Installation retrieves items that are specified in the package. A package is like a bill of materials with instructions that describe from where the system retrieves all of the necessary components that the JD Edwards EnterpriseOne Workstation Installation program deploys to the local workstation. This program can be run interactively (initiated by a person at a workstation) or in silent mode and scheduled through the push installation feature.

Deploying to Workstations from CD

If your system has a CD writer, you can define the CD writer as a deployment location. Essentially, you define the CD writer as a pseudo deployment server from which you can copy a package onto a blank CD. You can then use this CD to install the software on workstations by using the JD Edwards EnterpriseOne Workstation Installation program that is included on the CD.

Defining Deployment Parameters

This section provides an overview of deployment parameters, provides prerequisites, and discusses how to:

- Define machines.
- Define locations.
- Define package deployment groups.
- Revise package deployment groups.

Understanding Deployment Parameters

Before you deploy packages, you must identify the workstations, servers, groups, or locations that will receive the package. Identifying these ensures that, when you are ready to schedule packages using the JD Edwards EnterpriseOne Deployment Director, the machines, groups, or locations that you want to receive the package will be available as package recipients.

A deployment group is a group of workstations that are classified by a criterion such as job function, team, or any other grouping that you specify. For example, you might have a software development group, a testing group, a production group, and so on. Oracle's JD Edwards EnterpriseOne Package Deployment Groups Revisions program (P9652A) enables you to define or revise groups that include several workstations.

A location is a group of workstations and servers that corresponds to a physical location. For example, you might have locations for Corporate and Branch, or for Building 5 and Building 7. Locations are also useful if you use multitier deployment or deploy across a WAN. In this case, you might define a location for each of your geographic locations. The JD Edwards EnterpriseOne Deployment Locations Application program (P9654A) enables you to define or revise machines and locations in your enterprise.

Both of these applications simplify the deployment process when you need to deploy a package to several users. Rather than requiring you to schedule deployment to each workstation or server, you can schedule deployment according to location or group.

When you enter a machine definition, you are really defining its usage in the configuration. For example, you can use a deployment server as a data server. When you enter machine definitions, consider these recommendations:

- A Java application server (JAS) can be defined only as a Java application server, not as a data server, enterprise server, and so on.
- A deployment server should not be used as a workstation.
- A deployment server can be used as a data server.
- A deployment server should not be used as an enterprise server for tuning and performance reasons.

For a machine that no user has ever used to sign in to JD Edwards EnterpriseOne, use the JD Edwards EnterpriseOne Deployment Locations application (P9654A) to manually enter a record in the F9650 table.

- Automatically

The system automatically creates a record in the F9650 table when a user on a new machine signs in to JD Edwards EnterpriseOne for the first time. (The system also automatically updates existing records in the F9650 table each time a user signs in to the workstation.)

The simplest way to populate the F9650 table is to have all users on new machines sign in. In cases in which you need to deploy a package before the users can sign in, you must manually enter machine information. The JD Edwards EnterpriseOne Deployment Locations application enables you to perform this task.

In addition to defining workstations, you can also use the JD Edwards EnterpriseOne Deployment Locations application to enter or revise definitions for these machines:

- Deployment Server
- Enterprise Server
- Data Server
- Java Application Server
- Windows Terminal Server
- Crystal Enterprise Web Server
- Crystal Enterprise CMS
- Business Services Server

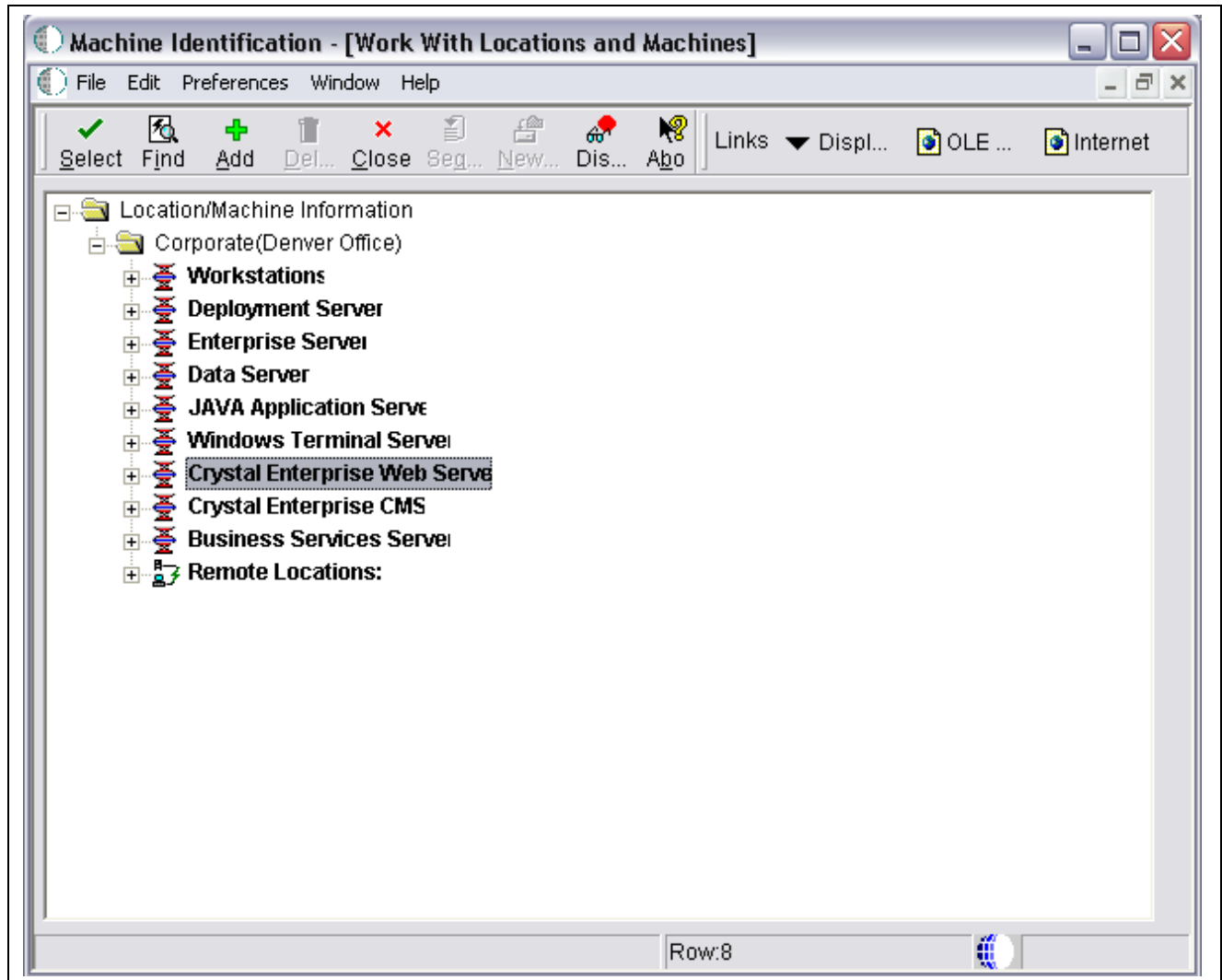
You can enter or revise definitions for these machines in multiple locations, including remote locations.

Forms Used to Define Deployment Parameters

Form Name	FormID	Navigation	Usage
Work with Locations and Machines	W9654AA	Package and Deployment Tools (GH9083), Machine Identification Click Add to add a new location or machine, or click Select to revise an existing location or machine.	Create or revise deployment locations or machines.
Deployment Group Revisions form	W9652AB	Package and Deployment Tools (GH9083), Machine Group Identification Click Add to add a new deployment group, or click Select to revise an existing group.	Create or revise package deployment groups.

Defining Machines

Access the Work with Locations and Machines form.



Work With Locations and Machines Form

1. Highlight the type of machine you would like to create.
2. Click Add.
3. Enter the appropriate values for the type of machine you are creating.

Workstation

Deployment Server Name Enter the name of the specific server that is being used for deployment.

When you define a secondary deployment server, options on the Form menu enable you to select path codes, data items, foundation modules, and help items. (These options are not available for the primary deployment server.)

Deployment Server

Primary Deployment Server

Specify whether a deployment server is the primary deployment server for a specific location.

If you have set up a primary deployment server, you cannot access the Primary Deployment Server field when you define a new deployment server. You can

Crystal Enterprise Web Server

Port Number Enter the port number for the Crystal Enterprise web server.

Crystal Enterprise CMS

User ID Enter the user name with which JD Edwards EnterpriseOne will connect to Crystal Enterprise for the purpose of running scheduled reports. This user, along with the associated password, must identify a valid Crystal Enterprise user with the necessary authority to execute reports.

Password Enter the password that JD Edwards EnterpriseOne will use to connect to Crystal Enterprise for the purpose of running scheduled reports. This password, along with the associated user ID, must identify a valid Crystal Enterprise user with the necessary authority to execute reports.

Password -Verify Reenter the password.

Business Services Server

The Business Services Server cannot be added through this application. You must use Server Manager to add a new Business Services Server.

See *Server Manager Guide*

Defining Locations

Access the Location Revisions form by clicking Add on the Work with Locations and Machines form.

The screenshot shows a Windows-style dialog box titled "Machine Identification - [Location Revisions]". It features a menu bar with "File", "Edit", "Preferences", "Window", and "Help". Below the menu is a toolbar with four icons: a green checkmark (OK), a red X (Cancel), a red circle with a diagonal line (Dismiss), and a yellow key (Apply). The main area of the dialog contains four text input fields, each with a label to its left: "Location", "Description", "Location Code", and "Parent Location". A mouse cursor is positioned over the "OK" button. At the bottom right of the dialog, there is a small globe icon.

Location Revisions form

Location Enter the name of the deployment location.

Location Code Represent the current location for system deployment.

Parent Location Enter the name of the parent location.

Defining Package Deployment Groups

Access the Deployment Group Revisions form.

Deployment Group Revisions form

Deployment Group Name

Enter a profile to use to classify users into groups for system security purposes. You use group profiles to give the members of a group access to specific programs.

Some rules for creating a profile for a user class or group are:

- The name of the user class or group must begin with an asterisk (*) so that it does not conflict with any system profiles.
- The User Class/Group field must be blank when you enter a new group profile.

Deployment Group Description

Enter the description for the selected deployment group.

Workstation

Specify the name of the machine on the network .

Workstation Description

Enter a user-defined name or remark.

Deployment Group

Specify a group that is defined to be part of a parent group.

Revising Package Deployment Groups

Access the Deployment Group Revisions form.

Note. When you revise an existing group, you cannot change the group name, but you can change the description.

1. To add to the group, select the last row (the empty one) and enter the name of the workstation or deployment group to which you want to add members.
2. Type the name in the Workstation field or the Deployment Group field, or use the search button for those fields.

When you use the search button for the Workstation field, the Machine Select form appears. When you use the search button for the Deployment Group field, the Deployment Group Search form appears.

Working with Package Deployment

This section provides an overview of the JD Edwards EnterpriseOne Deployment Director and discusses how to:

- Schedule a package for deployment.
- Revise deployment options.
- Activate a scheduled package.
- Install a scheduled package.

Understanding the Deployment Director

After you define and build a package, use the JD Edwards EnterpriseOne Deployment Director program (P9631) to schedule the package for deployment to individual workstations, deployment servers, or enterprise servers. On the specified deployment date, users who are scheduled to receive the package can load the package when they sign in to JD Edwards EnterpriseOne.

Alternatively, you can schedule the package to deployment groups or locations instead of specific machines. Deployment groups are useful in large enterprises that routinely deploy packages to many workstations and servers.

The JD Edwards EnterpriseOne Deployment Director program (P9631) simplifies and expedites the process of scheduling and deploying built packages to workstations and servers. The director displays a series of forms that enable you to specify the package that you want to deploy, the deployment destinations, and the deployment time.

After specifying the package that you want to deploy, you specify any of these destinations:

- Client workstation.
- Enterprise server.
- Deployment server or Deployment groups.
- Locations.

You can deploy a package either to specific workstations and servers, or you can schedule the deployment based on deployment groups or location. You cannot do both; you must select one of these methods.

You can make the package mandatory, which means that users cannot access the software until they have installed the package. If the package is optional, users will be given the option of installing the package every time that they sign in until they either install or decline the package.

In addition, you can specify a *push installation*, which means that the package can be deployed from the deployment server to the workstations that you specify, without requiring any interaction from the user.

Note. Mandatory and Push Installation options are applicable to client packages only.

The JD Edwards EnterpriseOne Deployment Director requires that JD Edwards EnterpriseOne already be loaded on the workstation, unless you are using push installation. You can schedule a new full package to replace the existing package, or an update package to be merged with the existing package on the workstation.

The JD Edwards EnterpriseOne Deployment Director uses these tables:

- F9650
- F9651
- F9652
- F9653
- F9654
- F98825
- F988251
- F98826
- F9603
- F96031

This table summarizes the function of each form in the JD Edwards EnterpriseOne Deployment Director:

Package Deployment Director form	View this form for a description of the JD Edwards EnterpriseOne Deployment Director.
Package Selection form	Use this form to find and select the package that you want to deploy.
Package Deployment Targets form	Use this form to specify the destination for the package. You can select individual client workstations, deployment servers, and enterprise servers, or you can deploy the package to a deployment group or location.
Package Deployment Attributes form	Use this form to enter the date and time that you want to deploy the package. Also specify whether the package is mandatory (that is, it must be installed by every package recipient) and whether you want to use push installation to deploy the package.
Deployment Client Workstation Selection form	Use this form to select each of the client workstations that will receive the package.
Deployment Server Selection form	Use this form to select each of the deployment servers that will receive the package.
Enterprise Server Selection form	Use this form to select each of the enterprise servers that will receive the package.
Deployment Location Selection form	Use this form to specify the deployment location that will receive the package.

Forms Used to Work with Package Deployment

Form Name	FormID	Navigation	Usage
Work with Package Deployment	W9631J	Package and Deployment Tools (GH9083), Package Deployment	Select the package to deploy and review your selections.
Package Selection	W9631C	Package and Deployment Tools (GH9083), Package Deployment. Click Add on the Work with Package Deployment form to launch the Deployment Director. Click Next.	Select the package to deploy.
Package Deployment Targets	W9631B	On Package Selection, click Next.	Select the types of machines on which to deploy the package.
Package Deployment Attributes	W9631D	On Package Deployment Targets, click Next.	Select the type of installation and the time.
Deployment Client Workstation Selection	W9631F	On Package Deployment Targets, select Client Workstation and click Next until the Deployment Client Workstation Selection form appears.	Select the workstations to which the package will be deployed.
Deployment Server Selection	W9631G	On Package Deployment Targets, select Deployment Server and click Next until the Deployment Server Selection form appears.	Select the Deployment Servers to which the package will be deployed.
Build Selection	W9631N	On Package Deployment Targets, click Next until the Build Selection form appears.	Select the server package build to deploy to the destination deployment server.
Enterprise Server Selection	W9631E	On Package Deployment Targets, select Enterprise Server and click Next until the Deployment Server Selection form appears.	Select the Enterprise Servers to which the package will be deployed.
Server Package Deployment Properties Revisions	W9631M	Package and Deployment Tools (GH9083), Package Deployment. Select Machines, and click Find to display information according to machine name. Find and select the deployed package for which you want to modify the options, and then select Properties from the Row menu.	Revise server package deployment options.

Scheduling a Package for Deployment

Access the Package Selection form.

Select the package you would like to deploy. The build status for the package must be Build Completed Successfully before you can select it for Deployment. Only packages at that status will be shown here for selection.

Package Name	Description	Path Code	Package Type	
STGUPTTEST	Update	STGAIMG	3	Update
TEST	Test Build 3/30	STGAIMG	3	Update
TEST2	Image Test 2	STGAIMG	3	Update
XMLACCP	Acceptance Testing	STGAIMG	1	Full
XMLOPT263	XML 8.96A 09/20/05 System	STGAIMG	3	Update

Package Selection form

1. Select the package that you want to deploy, and then click Next.
2. On the Package Deployment Targets form, select any of these options to indicate the type of machines to which you want to deploy the package, and then click Next:
 - Client Workstation
 - Deployment Server
 - Enterprise Server
 - Business Services Server

See [Chapter 8, “Working with Packages for Business Services,” page 161.](#)

 - Deployment Group
 - Locations
3. On Package Deployment Attributes, complete these fields:
 - Mandatory Installation
 - Enable Push Installation
 - Date/Time

4. If you want to deploy the package using push installation, which pushes the package to workstations from the deployment server, select the Enable Push Installation option, and then click Next.
If you are deploying to workstations, the Deployment Client Workstation Selection form appears. If you are not deploying to workstations, bypass the next step.
5. Find and select the workstations to which you want to deploy the package, and then click Next.
Select a workstation by double-clicking in its row header. A check mark appears in the row header for each workstation that you select.
If you are deploying to a deployment server, the Deployment Server Selection form appears. If you are not deploying to a deployment server, bypass the next step.
6. Find the deployment server to which you want to deploy the package, and then click Next.
Select a server by double-clicking in its row header. A check mark appears next to each server that you select.
7. On the Build Selection form, select the server package build that you want to deploy to the destination deployment server, and then click Close.
8. Click Next.
If you are deploying to an enterprise server, the Enterprise Server Selection form appears. If you are not deploying to an enterprise server, bypass the next step.
9. Find and select the enterprise server to which you want to deploy the package, and then click Next.
Select a server by double-clicking in its row header.

Note. You can deploy an update package only to servers that have the full parent package deployed.

10. On Work with Package Deployment, review your deployment selections.
11. To change any of the selections, click Prev to return to the appropriate previous form.
12. When you are finished reviewing and changing the deployment selections, click End.
13. If you are deploying a server package, find and select the server package on the Work with Package Deployment form, and then select Deploy from the Row menu.

After you schedule the package for deployment, at the specified time on the date that you specified, the package deploys to workstations. This package becomes available to the user when the user signs in.

If you are using push installation, the package automatically installs at the time that you specify in Oracle's JD Edwards EnterpriseOne Schedule Jobs program (P91300).

To schedule a package for deployment to a deployment group or location:

1. On the Package Selection form, select the package that you want to deploy, and then click Next.
2. On the Package Deployment Targets form, select either Deployment Group or Locations, and then click Next.
3. On the Package Deployment Attributes form, complete these fields:
 - Mandatory Installation
 - Enable Push Installation
 - Date/Time
4. If you want to deploy the package using push installation, which pushes the package to workstations from the deployment server, select the Enable Push Installation option.

Server Package Deployment Properties Revisions form

Package Name

Enter a name for the package.

A package describes the location on the server where components that you want to deploy to workstations or servers reside. Two package types are available:

Full: Contains the full suite of applications (all specifications).

Update: Objects contained in this type of package are loaded after the workstation or server receives the package and the user signs in to the system. If the update package includes just-in-time applications, old versions of the application are deleted from the workstation and replaced by the current version the first time the user accesses that application. Update packages are always deployed on the date and time that are specified by the system administrator.

With the exception of just-in-time applications that are included in an Update package, all packages are a snapshot at a point in time of the central objects for a particular path code. Just-in-time applications are dynamic, not built.

Path Code

Enter the path code.

The path code is a pointer to a set of objects and is used to keep track of sets of objects and their locations.

Mandatory Installation

Indicate whether the package is mandatory or optional.

Valid choices are:

Y: The deployment is mandatory. The user must install the package.

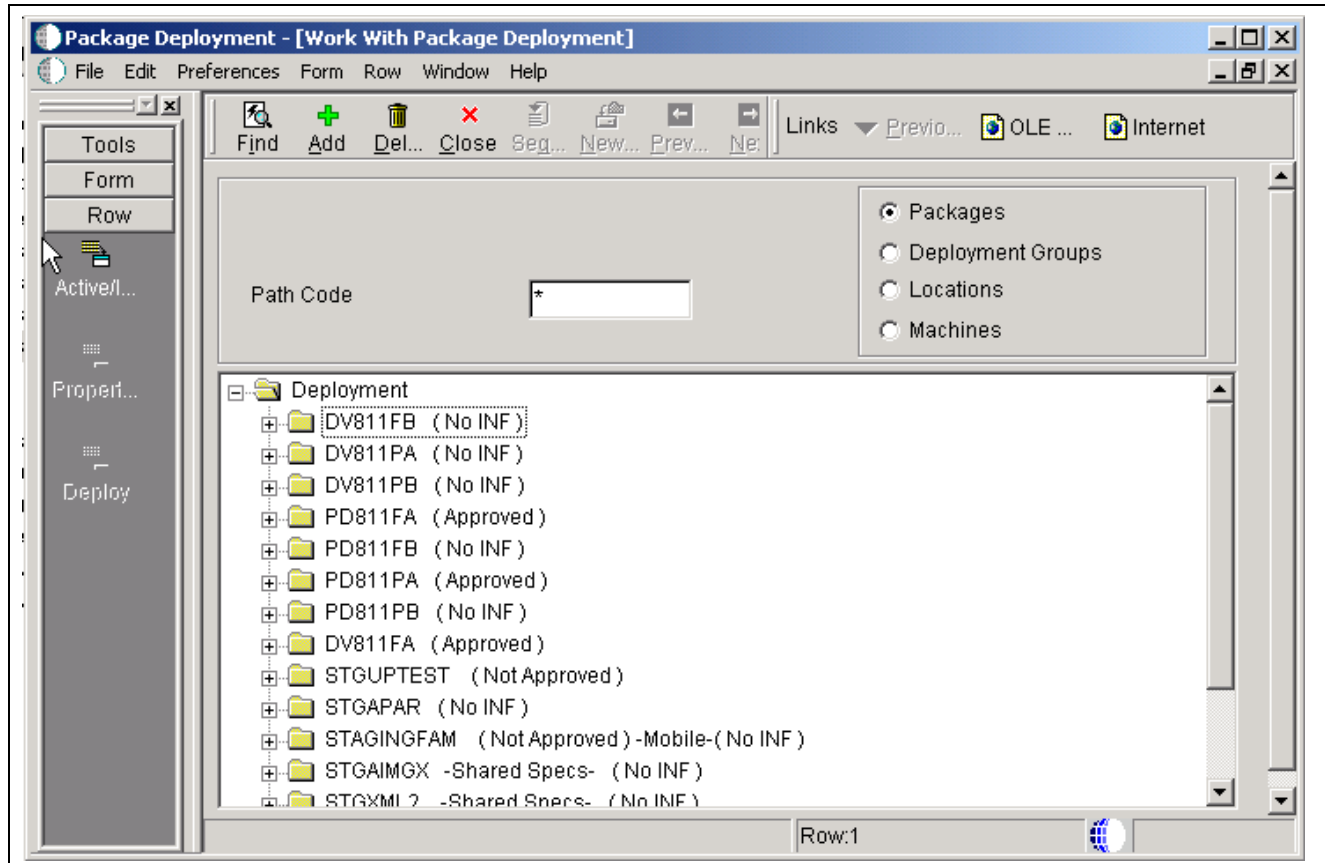
N: The deployment is optional to the user.

Enable Push Installation Select this option to enable the package to be installed through push installation.

Date Enter a date to deploy updated objects to the listed machine.

Activating the Scheduled Package

Access the Work with Package Deployment form.



Work with Package Deployment form

1. Click Find.
2. Select from the list the packages that you want to activate or inactivate.
Alternatively, you can enter the package name in the Package field.
3. Select Active/Inactive from the Row menu.

Installing a Scheduled Package

1. Sign in to JD Edwards EnterpriseOne.

When you are scheduled to receive a package, Oracle's JD Edwards EnterpriseOne Just-In-Time Installation program launches and the Scheduled Packages form appears.

Form Used to Deploy Server Packages

Form Name	FormID	Navigation	Usage
Work with Package Deployment	W9631J	Package and Deployment Tools (GH9083), Package Deployment	Select the package to deploy and review your selections.

Deploying a Server Package

Access the Work with Package Deployment form.

1. Locate the server package that you want to deploy.
Alternatively, select the enterprise server or, if the package is scheduled to deploy to more than one server, the Enterprise Server folder.
2. Select Deploy from the Row menu.
3. On Report Output Destination, select On Screen.
4. Click OK.

Using Push Installation

This section provides an overview of Push Installation and discusses how to:

- Prepare the enterprise server for push installation.
- Prepare workstations for push installation.
- Install the JD Edwards EnterpriseOne Listener.
- Install the JD Edwards EnterpriseOne Listener using silent installation.
- Stop and uninstall the JD Edwards EnterpriseOne Listener.
- Schedule a package for push installation.
- Schedule the JD Edwards EnterpriseOne Push Installation batch application.
- Run the JD Edwards EnterpriseOne Package Installation Results report.

Understanding Push Installation

Push installation is the only deployment method that provides automatic and unattended package deployment. This means that the system administrator can deploy a package (or several packages) to a workstation or group without requiring any action from workstation users.

For example, an administrator might schedule a package to deploy to a particular group after hours. When members of that group report to work the following morning, that package is available for immediate use.

Installing the Listener Using Silent Installation

To install the JD Edwards EnterpriseOne Listener using silent installation:

1. Edit these settings in the `listen_silent_setup.inf` file that is included on the software CD:

File Setting	Description
ServiceType	Enter <i>Local</i> or <i>Network</i> , depending on where you want to run the JD Edwards EnterpriseOne Listener service.
WorkstationDirPath	Enter the location on the workstation where you want to install the JD Edwards EnterpriseOne Listener program and related files. For example, <code>C:\Program Files\JDEdwards EnterpriseOne Client Listener</code> .
Release	Enter the base release. Do not enter a cumulative update release.
InstallPath	Enter the location on the workstation where the software is installed. For example, <code>D:\E812</code> .
LaunchPath	Enter the deployment server name and the location from which the JD Edwards EnterpriseOne Client Workstation Installation program runs. For example, <code>\\server name\b9\OneWorldClient Install\setup.exe</code> .
AutoStart	Enter 1 to automatically start the JD Edwards EnterpriseOne Listener service when the workstation starts up. Enter 0 if you do not want to enable Autostart.
UninstallPackage	Enter 1 if you want to automatically uninstall previous versions before installing a new full package. Enter 0 if you do not want to enable automatic uninstall.

2. Create or modify a batch file to include the silent installation parameter `/s` for the `ListenSetup.exe` program.

The batch file must reside in the same location as the `ListenSetup.exe` program.

For example, your batch file might contain this line:

```
start \\servername\E812\client\misc\ListenSetup.exe /s listen_silent_setup.inf
```

3. Distribute the INF file and the batch file to workstation users.

You can distribute these files or place them on a network server where workstation users can copy the files to their workstations.

4. Instruct users to restart their workstations to run the batch file and load the JD Edwards EnterpriseOne Listener using silent installation.

Scheduling the JD Edwards EnterpriseOne Push Installation Batch Application

After you have installed the JD Edwards EnterpriseOne Listener on all affected workstations and have scheduled the package through the JD Edwards EnterpriseOne Deployment Director program (P9631), you must use the JD Edwards EnterpriseOne Schedule Jobs program (P91300) to run the JD Edwards EnterpriseOne Push Package Installation batch program (R98825) on the server.

Before you begin to schedule the JD Edwards EnterpriseOne Push Installation batch application, complete these steps:

- Remind package recipients to leave their workstations turned on, even after hours.
- Remind users who are using a local service that they must be signed in.
- Remind package recipients to verify that the JD Edwards EnterpriseOne Listener is running.

Access the Scheduling Information form:

Scheduling Information form

1. Enter a name that uniquely identifies a scheduled job in the Scheduled Job Name field.
2. Enter the current status of the scheduled job in the Scheduled Job Status field.

As long as the status is active, the JD Edwards EnterpriseOne Scheduler determines whether the job should be submitted to the server for processing. When the scheduled end date for the job has been reached, the status changes to Not Active. To stop the JD Edwards EnterpriseOne Scheduler from considering the job for submission, you can change the status to Not Active (or suspended) at any time prior to the end date. You can reactivate the job if you want the JD Edwards EnterpriseOne Scheduler to include the job again, but you can reactivate a job only if the end date is in the future.

3. Enter the object name of the report that the Schedule submits to the server in the Scheduled Batch Application field.
4. Enter the version of the report to run in the Scheduled Version field.
This is the version of the report scheduled to run. A version identifies a specific set of data selections and sequencing settings that the batch job uses.
5. In the Scheduled Start Date/Time field, enter the next date on which the JD Edwards EnterpriseOne Scheduler submits the scheduled job to the server for processing.
6. To set the job recurrence (that is, to specify how frequently the job runs) select Recurrence from the Form menu.
If you do not specify a recurrence by completing the fields on this form, the job runs only one time. For the JD Edwards EnterpriseOne Push Installation batch program, you should set recurrence to run every 30 minutes.
7. On the Recurring Scheduling Information Revisions form, click OK.
8. On the Scheduling Information form, to enter any overrides, resubmissions, or expiration options, select Advanced Options from the Form menu.
9. Click the tab that corresponds to the information that you want to enter or revise:
 - Launch Overrides
 - Job Expiration
 - Job Resubmission
 - Batch Application Overrides
10. Revise the information, and click OK.

After scheduling the job, you can use the JD Edwards EnterpriseOne Object Configuration Manager (P986110) to verify that the server on which the JD Edwards EnterpriseOne Push Installation batch program is running points to the same F98825 and F9650 tables that the JD Edwards EnterpriseOne Deployment Director program uses.

See Also

JD Edwards EnterpriseOne Tools 8.97 System Administration Guide, “Using the Scheduler Application,” Working with the Job Scheduler

Running the Package Installation Results Report

Access the Push Package Installation Results form.

This report provides the same information that you get when you run the JD Edwards EnterpriseOne Push Package Installation batch program (R98825).

The report includes this information:

- Machine key.
- Package name and path code.
- User class or group.
- Package status and status description.
- Install status.

- Package installation description.
- Mandatory install (yes or no).

This table lists the status codes and descriptions that the JD Edwards EnterpriseOne Push Package Installation program (R98825) uses. Codes that are marked with an asterisk indicate conditions in which the JD Edwards EnterpriseOne Push Package Installation program continues to attempt the installation the next time that the JD Edwards EnterpriseOne Push Package Installation program runs.

Status Code	Description
200*	Scheduled
210*	In Progress
220	Successful Install
230	Install Failed
240*	Install Running
250*	JD Edwards EnterpriseOne Running
260*	Listener Not Started/Installed
270	General Error
280	Already Installed
290	Invalid Package
300	Install Attempted
310	Machine Down

Installing Workstations from CD

This section provides an overview of how to install workstations from CD, lists a prerequisite, and discusses how to:

- Define the CD Writer location.
- Deploy a package to the CD Writer location.
- Create the installation CD.

Understanding How to Install Workstations from CD

If your system includes a CD writer, you can build and deploy packages to the CD writer location. After copying the package to a CD, you can then use the CD as a portable deployment tier from which to perform workstation installations. That is, you can run from the CD the setup.exe program that launches the JD Edwards EnterpriseOne Workstation Installation program.

You can set up your enterprise so that you can deploy packages to the CD writer and install the software from a CD.

The first step in the process of configuring your system for deployment from CD is to define the CD writer location if it is not already defined. In this step, you essentially create a pseudo deployment server from which you will later copy package data onto the CD by using the software for your CD writer.

When you define the CD writer location in the Machine Identification application, you must also add the correct path codes to the Environments exit.

The process for defining this location is identical to the process for defining any other new deployment server.

Prerequisite

Assemble, define, and build the package that you want to write to the CD.

Forms Used to Install Workstations from CD

Form Name	FormID	Navigation	Usage
Deployment Server Revisions	W9654AC	Package and Deployment Tools (GH9083), Machine Identification Subordinate to the appropriate location, select Deployment server. Click Add to add a new machine.	
Work with Package Deployment	W9631J	Package and Deployment Tools (GH9083), Package Deployment	Select the package to deploy and review your selections.

Defining the CD Writer Location

Access the Deployment Server Revisions form.

Deployment Server Revisions form

1. Enter the name of the machine on the network in the Machine Name field.
 2. Enter the release number as defined in the Release Master in the Release field.
 3. Enter the primary user for the listed machine in the Primary User field.
 4. Enter the shared directory for the path code in the Server Share Path field.
 5. If you want to specify a location for data, a foundation, or help files, do so by choosing Data, Foundation, or Helps from the Form menu.
- If you do not specify a location for data, foundation, or helps, the system uses the default locations.
6. Click OK.
 7. Click Close to quit the Work with Locations and Machines form.
 8. In Windows Explorer, locate the folder named Client Install.
 9. Copy this folder by dragging the folder to the CD writer location.

The location is the server share path that you entered on the Deployment Server Revisions form.

Deploying a Package to the CD Writer Location

After you define the CD writer as a deployment server, you are ready to deploy a package to the CD writer location that you specified. This task involves these two procedures:

- Deploy to the CD writer location the package that you want to write to the CD.
- Modify the Install.inf and Package.inf files in preparation for writing the package contents to the CD.

Creating the Installation CD

After you deploy the package to the CD writer location and modify the `Install.inf` and `Package.inf` files, you are ready to copy the package contents to the CD. Use the software that came with your CD writer to accomplish this process, which typically involves copying the package contents to the CD. Refer to the documentation that came with your CD writer for more information about this process.

You copy the package to the CD by copying the subdirectories that are subordinate to the server share path directory. The server share path directory is not created on the CD. (In the previous example, the server share path directory is called `Multitier`, and it is the same name that you entered in the `Server Share Path` field on the `Deployment Server Revisions` form.

When you are finished copying the directories to the CD, the CD should contain these directories:

- `Appl_pgf` (contains package information).
- `datacomp` (contains the database cabinet file).
- `helpscomp` (contains the helps cabinet file).
- `systemcomp` (contains the foundation cabinet file).
- `package_inf` (contains the `package.inf` file).
- `Client Install` (contains the JD Edwards EnterpriseOne Workstation Installation program).

Note. Actual names might not be the same as those listed because each system might be different.

CHAPTER 8

Working with Packages for Business Services

This chapter provides an overview of packages for business services and discusses how to:

- Assemble JD Edwards EnterpriseOne business services.
- Assemble a package that contains published business services.
- Build a package with published business services.
- Deploy the package to the Business Services Server.

Understanding Packages for Business Services

This section discusses an overview of packages for business services.

Once business services have been created, they need to be built for Oracle Application Server (OAS) and WebSphere Application Server (WAS) consumption. The package build process creates the necessary .ear files that are consumable by OAS and WAS. Next, the business services need to be deployed. The client installation process deploys business services to all Microsoft Windows 32 clients. The package deployment process deploys the OAS and WAS .ear files to preconfigured J2EE servers.

See Also

Business Services Server Reference Guide for more information on configuration and security of the Business Services Server.

Assembling JD Edwards EnterpriseOne Business Services

This section lists prerequisites and discusses how to assemble business services for package build.

Prerequisites

Before you complete the tasks in this section:

- Use Server Manager to create J2EE business service containers for the Business Services Server.
- Use Server Manager to set up Server Manager users.

In order to deploy the package successfully, the EnterpriseOne user must be a valid Server Manager user. The user cannot deploy the package if the EnterpriseOne user's credentials are not valid for Server Manager.

See *Server Manager Guide*.

- If you have multiple security servers, you must set up EnterpriseOne Trusted Nodes for a successful deployment of business services.

See *JD Edwards EnterpriseOne Tools 8.97 Security Administration Guide*, “Setting Up JD Edwards EnterpriseOne Single Sign-On,” Setting Up a Trusted Node Configuration.

Assembling Business Services for Package Build

Enter P9603 in the Fast Path.

Assemble Business Services Form

1. On the Assemble Business Services form, in the Pathcode field, enter the path code of the package that you plan to build and tab to the next field.

Note. At this point, the application retrieves all the available business services from F98602 and F98603. If you have used this application before, the application also retrieves the values for the JDeveloper Install Path and Rational Application Developer Install Path fields from the JDE.INI file.

2. If this is your first time in the application, you must manually complete these fields:

Field	Description
JDeveloper Install Path	Enter the location where JDeveloper is installed. This must be entered if you are using JDeveloper or WAS.
Rational Application Developer Install Path	Enter the location where IBM Rational Application Developer for WebSphere (RAD) is installed. This must only be entered if you are using WAS.

- When you enter the install path, P9603 verifies the actual location and version. If it is correct, the P9603 adds the information to the jde.ini:

```
[MTR VALIDATION]
JDeveloperInstallPath=<Install path specified by P9603>
JDeveloperVersion=10.1.3
WebSphereInstallPath=<Install path specified by P9603>
WebSphereVersion=6.1
```

Note. If the path or version is incorrect, you produce an error; the Close button is disabled until the correct path is entered.

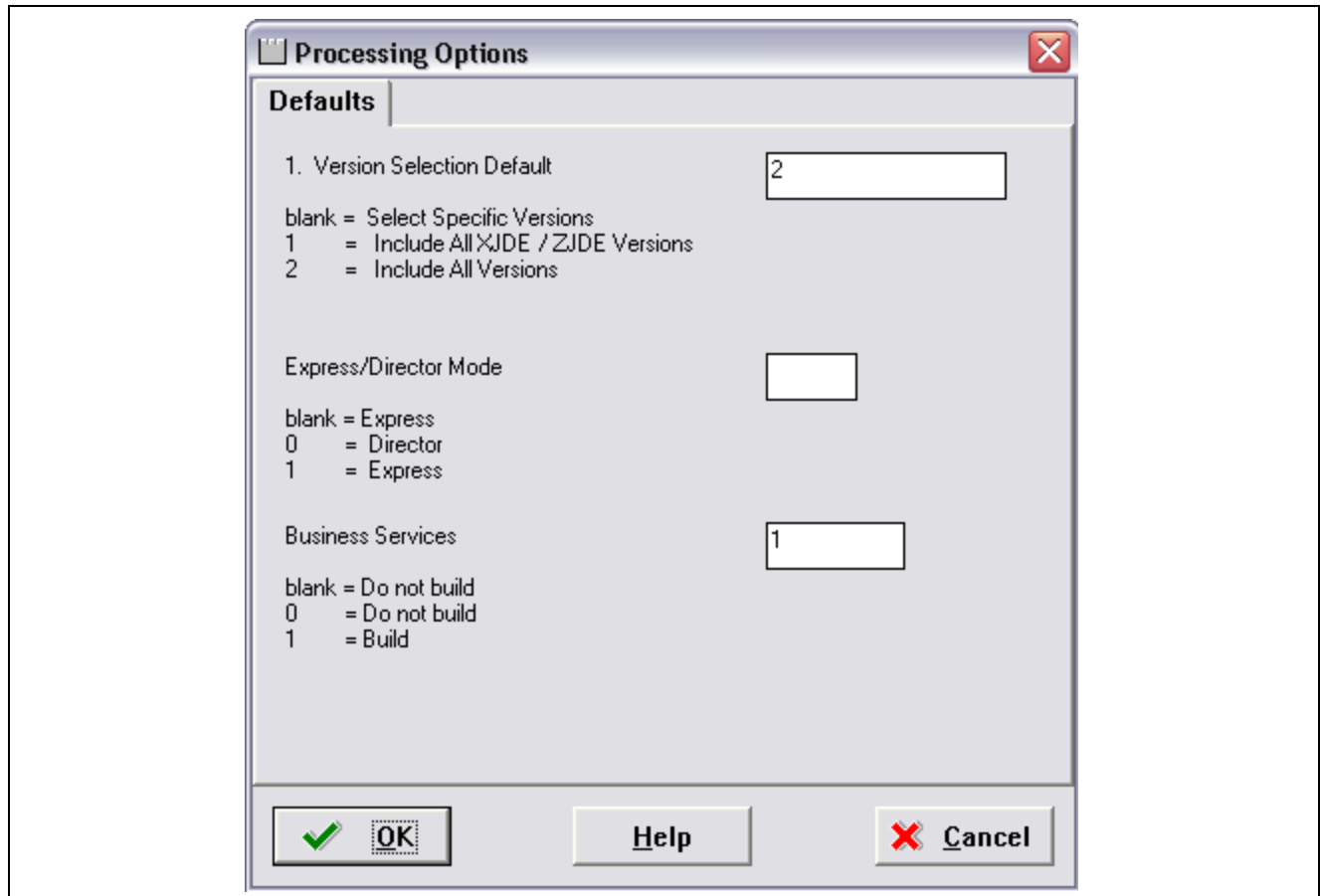
- In the grid, select the business services that you want to expose as a web service and click the Select button. You can also double-click the row headings of the business services you would like to expose. A check mark appears by each business service that is selected.
- Click Select again or double-click the row header to un-expose the web service.
- Select Close to close the application.

Assembling a Package that Contains Published Business Services

This section discusses how to assemble a business service package.

Assembling a Business Service Package

To set the processing options for Package Assembly, go to the Package and Deployment Tools menu, right-click the Package Assembly application (P9601), and select prompt for values.



Processing Options for Package Assembly, P9601

1. Set the processing option entitled Business Services to *1*. This processing option is blank by default.
2. Select OK.
3. On the Work with Packages form, begin the assembly process.

See [Chapter 4, “Assembling Packages,” page 37](#).

Building a Package with Published Business Services

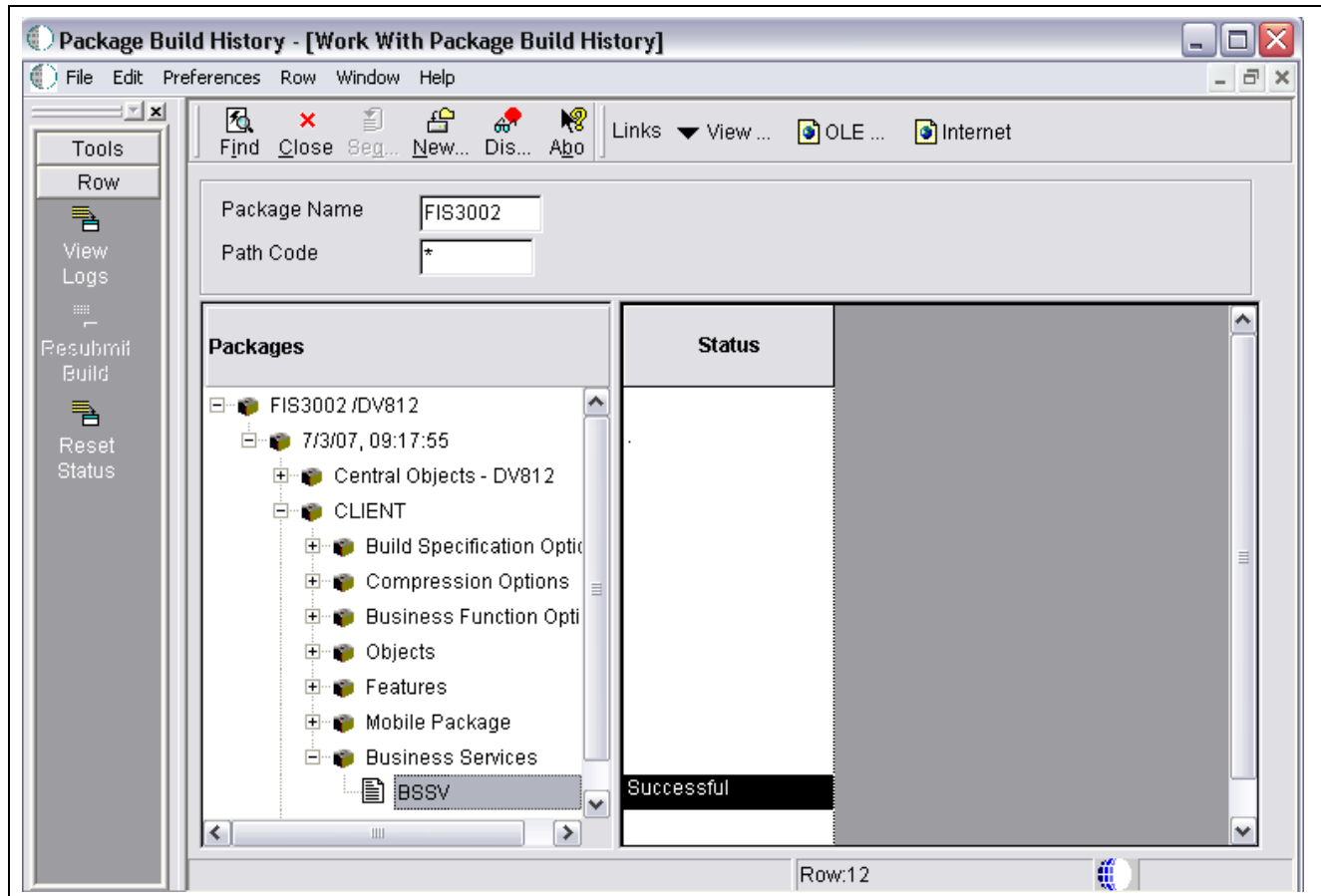
This section provides an overview of the build process and discusses how to:

- Define a package build with published business services.
- Resubmit the package build.

Understanding the Build Process

This is an overview of how the JD Edwards EnterpriseOne system builds a package that contains business services. The JD Edwards EnterpriseOne system:

1. Creates the `\\work\sbf\sbfbuild.ini`, which defines the paths to the exposed methods.
2. Creates the Ant scripts, `logtimestamp.xml` and `build.xml` in the `\\work\sbf` directory.



Work with Package Build History Form

1. On the Work with Package Build History form, enter your package in the package name field and select Find.
2. In the tree structure, expand your package name and CLIENT.
3. Click on Business Services and select your business service.
4. Select Reset Status from the Row menu to reset the status of your business services.
5. Select Resubmit Build from the Row menu.

Deploying the Package to the Business Services Server

This section provides an overview of the deployment process and discusses how to deploy the business services.

Understanding the Deployment Process

This is an overview of how business services are deployed to the Business Services Server.

1. When you click Deploy, the R98825F runs.

Note. If you are deploying the package to both the enterprise server and Business Services Server, you select the enterprise server and click Deploy. The R98825D then calls R98825F when it is finished.

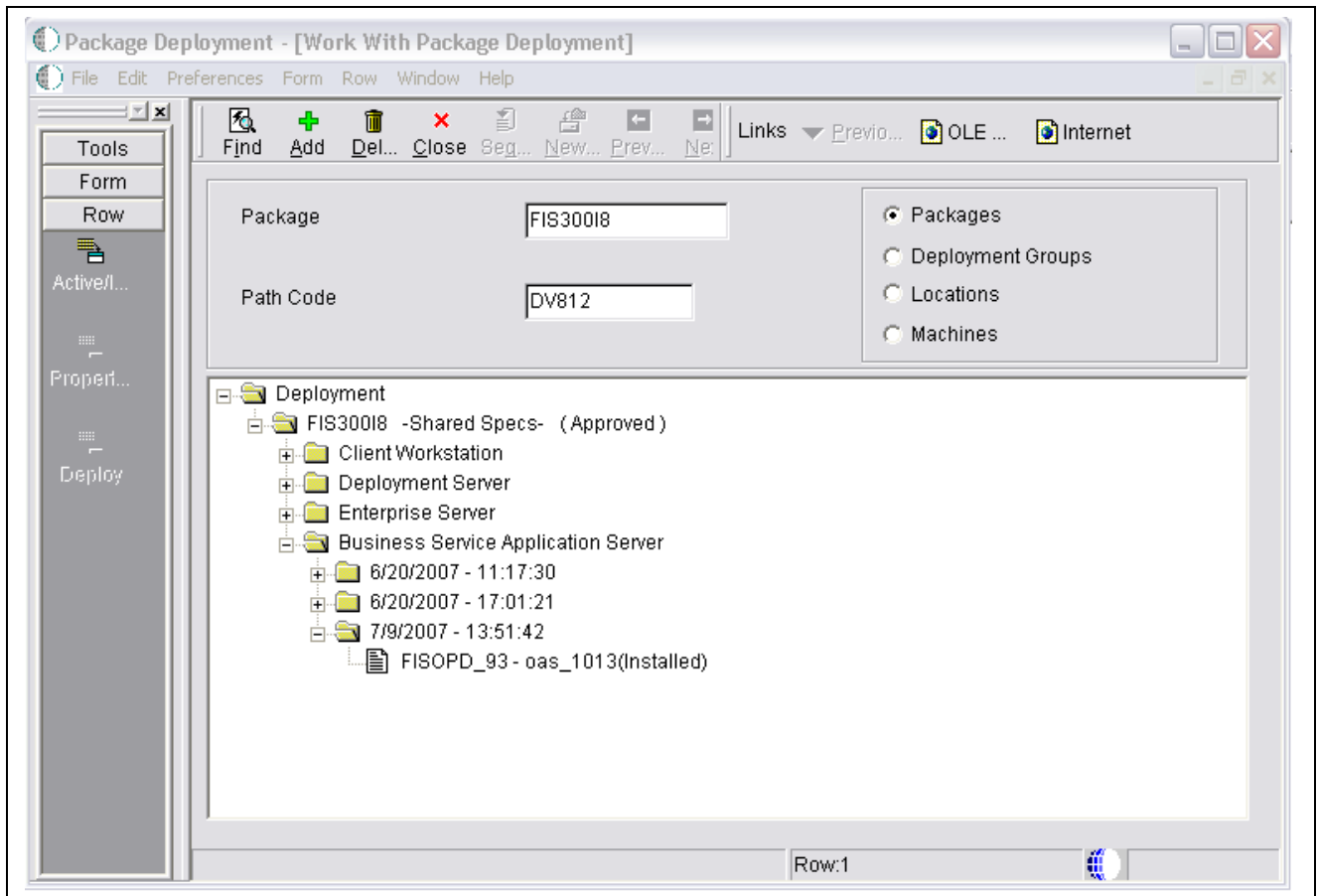
2. The R98825F creates the scfjar folder.
3. The scf_manifest.xml is created in the scfjar folder. It contains information that the package deployment process uses to communicate with the server manager.
4. The OAS and WAS .ear files are copied to the scfjar folder.
5. The contents of the scfjar folder are combined to form the bssv_timestamp.jar file.

Note. If errors occur, they are logged to the jas.log or jasdebug.log files.

6. The jar file is uploaded to Server Manager and both the file and the scfjar folder are deleted from the deployment server.

Deploying the Business Services

Enter P9631 in the Fast Path or go to the Package and Deployment Tools menu and select Package Deployment.



Work with Package Deployment Form

1. On the Work with Package Deployment form, click the Add button.
2. On the Package Selection form, select the business services package to deploy and click Next.
3. On the Package Deployment Targets form, select Business Services Server as the Deployment Target.

Note. The check box for Business Services Server is disabled if the selected package does not contain business services.

4. On the Package Deployment Attributes form, enter the Management Server URL and click Next.

Note. In order to deploy the package successfully, the EnterpriseOne user must be a valid Server Manager user. The user cannot deploy the package if the EnterpriseOne user's credentials are not valid for Server Manager. The user also cannot deploy the package if there is no valid Business Services Server defined in Server Manager.

See *The Server Manager Guide* for information about setting up Server Manager users.

5. Server Manager returns a list of eligible Business Services Servers to which the user can deploy the business services. Select the appropriate servers and click Next.
6. On the Business Services Package Deployment Properties Revisions form, click End.
7. On Work with Package Deployment, open your package name and then Business Service Application Server in the tree structure.
8. Select the date/time stamp and select Deploy from the Row menu.

Note. You cannot deploy to an individual Business Services Server. Business services are deployed to all servers under the selected date/time stamp.

CHAPTER 9

Setting Up Multitier Deployment

This chapter provides an overview of multitier deployment and discusses how to:

- Define deployment servers.
- Distribute software to deployment locations.
- Deploy server packages in a multitier network.

Understanding Multitier Deployment

This section discusses:

- Overview of multitier deployment.
- Multitier deployment terminology.
- Multitier deployment features.
- Multitier implementation.
- Multitier deployment case study.

Overview of Multitier Deployment

JD Edwards EnterpriseOne software is normally distributed to workstations from a centralized location. In many cases, you can minimize the affect on the performance of a single deployment server by using systematic scheduling for software installations. For example, if your site has more than 50 workstations that require a package installation but you release software only four times a year, you can mitigate performance problems by scheduling the installations over a weekend, at night, or during off-peak hours.

While this distribution method is the simplest approach for software deployment, network capacity constrains configurations that have either multiple remote sites or large numbers of users at a single site. For example, software installations to workstations that are connected to the centralized deployment location by a 56 KB circuit can take 4 to 6 hours to run.

Multitier deployment provides sites the flexibility of installing packages on workstations and servers from more than one deployment location and more than one deployment server. These additional deployment locations and servers are called deployment tiers. Specifically, instead of installing multiple workstations across a wide area network (WAN) circuit, multitier deployment enables you to transfer a compressed package from the centralized location to the remote workgroup server, which acts as a second deployment tier. Multitier deployment means deploying from more than one deployment tier.

Term	Description
Tier Deployment Location (tier 2)	Tier deployment locations (also known as remote or secondary locations) have one or more deployment servers that enable you to install the software on the workstations at that location. These servers receive their packages from the deployment server at the primary or base location. Machines at the tier deployment locations cannot use Object Librarian functions such as object check-in and check-out. These machines are designed for deployment use only and are not designed to be used for remote development. The number of tiered locations that you can have depends on the network and server capacity.
Tier Workstations	Tier workstations are workstations that connect to a tier deployment location for software installation. The number of workstations per deployment location depends on the network and machine load. All tiered workstations must also have a Microsoft Windows domain connection that enables them to connect to, read, and copy files from the shared drives of their respective deployment locations.

See Also

JD Edwards EnterpriseOne Application Release 8.12 Installation Guide

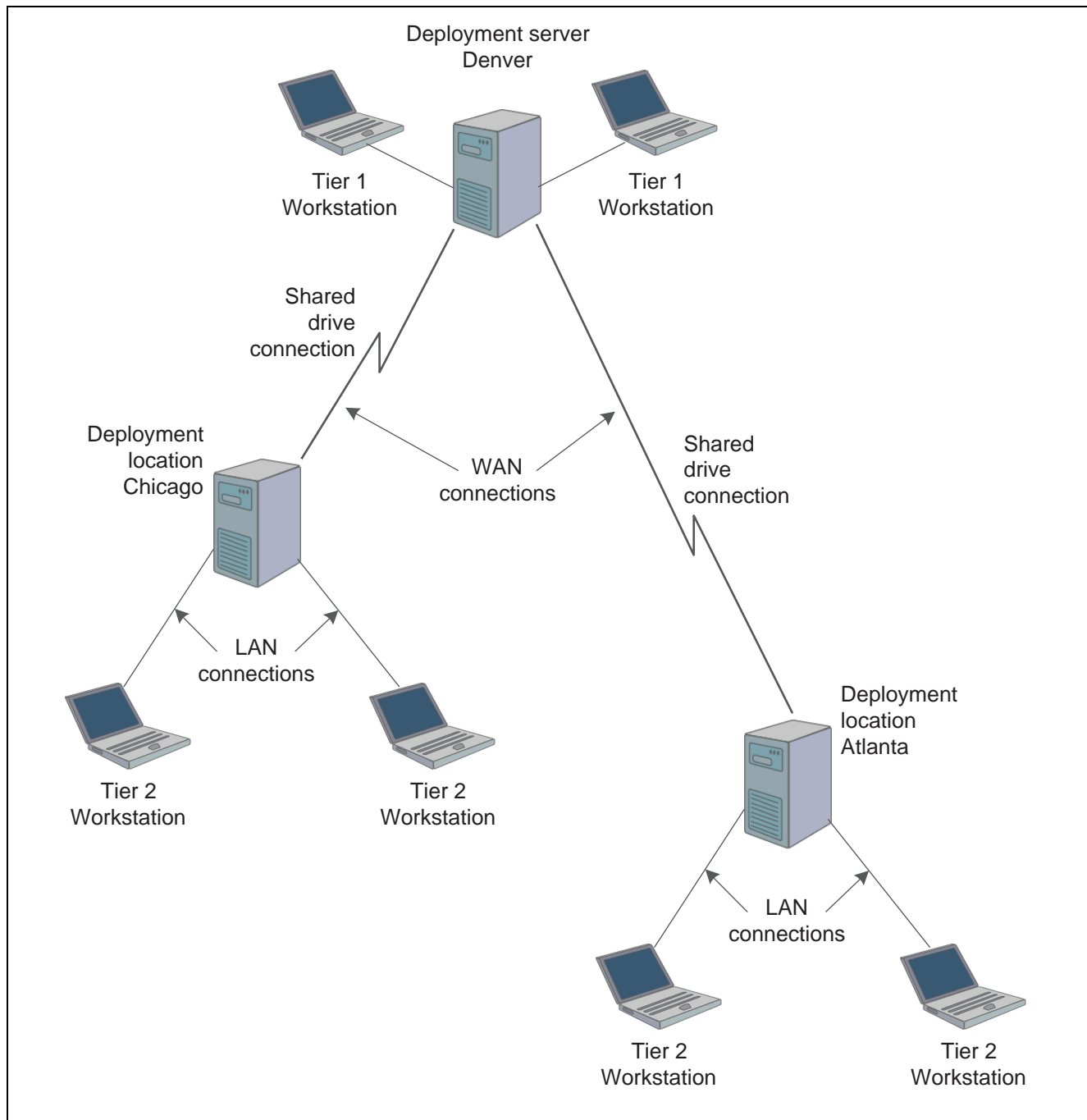
Multitier Deployment Features

Multitier deployment offers these features:

- You can deploy workstations from any number of deployment servers.
- You can easily add deployment locations, and the deployment machine does not need to be a server; it can be a Microsoft Windows workstation.
- Setup and administration are straightforward tasks.
- You maintain central control over files and data that are transferred to remote deployment locations.
- You can easily schedule software for deployment to remote sites.
- Multitier deployment is integrated into Oracle's JD Edwards EnterpriseOne Deployment Director, so the process for deploying is essentially the same as the process for deploying in a single-tiered setup.

Example: Two-Tier Deployment Strategy

This diagram illustrates a typical two-tier deployment strategy:



Example of a two-tier deployment strategy

Multitier Implementation

Packages are always built on the deployment server at the primary location. After you build the package that you want to deploy to remote locations, you must follow these steps to implement multitier deployment:

1. Define deployment locations.

You must define each physical location to which you want to deploy. For example, if the main office is in Denver and you want to deploy to the branch office in Seattle, you must define the Seattle deployment location.

2. Create deployment server definitions.

You must define the deployment server at each remote location.

Note. This step is not necessary if you used Oracle's JD Edwards EnterpriseOne Remote Location Workbench to create deployment server definitions when you installed the software.

3. Schedule the package.

Use the JD Edwards EnterpriseOne Deployment Director program (P9631) to schedule the package for deployment. The process of scheduling a package for multitier deployment is identical to the process for scheduling any other package.

4. Deploy the package to workstations.

After you deploy the package to the deployment server at the remote location, that server can deploy to the workstations at that location.

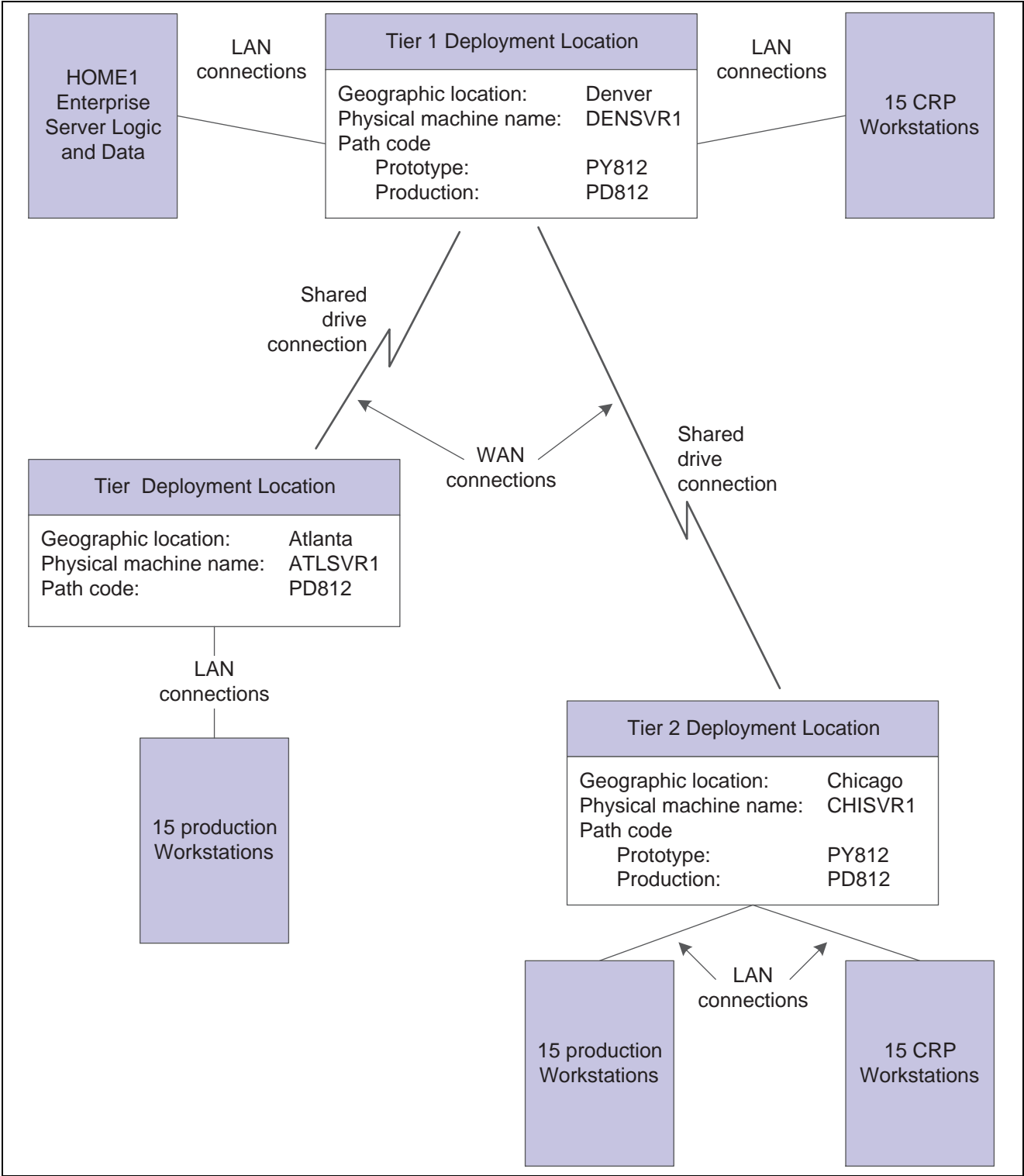
Multitier Deployment Case Study

This case study is for a two-tier deployment environment. As this case study demonstrates, deploying packages to workstations using WAN connections is generally not efficient. Instead, you should deploy from a primary deployment server to tier deployment locations. After that, you can install packages to LAN-attached workstations from each local deployment location.

For package installations, a remote deployment location functions as a file server. You cannot build packages at a remote deployment location; packages must be built at the primary deployment location.

While locally attached workstations can pull packages from the tier deployment location, these workstations still require enterprise server and database server connectivity.

This diagram illustrates this case study:



Multitier deployment strategy

This table describes the assumptions used by the Tier 1 Denver location in this case study:

Characteristic	Setting
Characteristic	Setting
Enterprise server name	HOME1
Deployment server name	Denver: DENSVR1 Atlanta: ATLSVR1 Chicago: CHISVR1
Prototype workstations	Denver: 15 Atlanta: 0 Chicago: 15
Production workstations	Denver: 0 Atlanta: 15 Chicago: 15
JD Edwards EnterpriseOne release	E812
Deployment tier	Denver: 1 Atlanta: 2 Chicago: 2
Path codes	Denver: PD812, PY812 Atlanta: PD812 Chicago: PD812, PY812

Multitier Deployment Configuration Steps for the Case Study

These steps summarize the steps necessary to configure the system for multitier deployment:

1. Define the deployment locations.

Define the deployment locations on the deployment server (DENSVR1 in this example). Use Oracle's JD Edwards EnterpriseOne Deployment Locations Application program (P9654A) to define all deployment locations.

For this case study, complete these fields to define three locations, one for each deployment location in Denver, Atlanta, and Chicago:

Field	Value
Location	Enter the name of the deployment location. In this case study, you assign these names for each physical deployment location: <i>Denver</i> , <i>Atlanta</i> , and <i>Chicago</i> .

Field	Value
Description	Enter a description (any value up to 30 characters) for each deployment location; for example: Denver: <i>Denver - Tier 1</i> Atlanta: <i>Atlanta - Tier 2</i> Chicago: <i>Chicago - Tier 2</i>
Location Code	Enter the current location for deployment; for example, <i>DEN</i> .
Parent Location	Enter the name of the parent location for the location that you are adding; for example, <i>Corporate</i> .

2. Create deployment server definitions.

Use the JD Edwards EnterpriseOne Deployment Locations Application program (P9654A) to create a definition for each deployment server at the deployment locations that you created. For this case study, you need to define a deployment server for Atlanta and Chicago. The deployment server in Denver is already defined because it is the primary (tier 1) server.

For this case study, complete the fields on the Deployment Server Revisions form as described in this table:

Field	Value
Machine Name	Enter the name of the physical machine. In this case study, enter these values: Denver: <i>DENSVR1</i> Atlanta: <i>ATLSVR1</i> Chicago: <i>CHISVR1</i>
Description	Enter a description (any value up to 30 characters). For example, <i>Multitier Deployment - Denver</i> .
Release	Enter the number of the release. For example, <i>E812</i> .
Primary User	Enter the primary user for the machine that you entered.
Server Share Path	Enter the name of the shared directory for the path code in which system files and other files reside. For example, <i>\E812</i> .

3. Schedule the package.

	day calendar is sometimes referred to as planning calendar, manufacturing calendar, or shop floor calendar.
workflow	The automation of a business process, in whole or in part, during which documents, information, or tasks are passed from one participant to another for action, according to a set of procedural rules.
workgroup server	A server that usually contains subsets of data replicated from a master network server. A workgroup server does not perform application or batch processing.
XAPI events	A service that uses system calls to capture JD Edwards EnterpriseOne transactions as they occur and then calls third-party software, end users, and other JD Edwards EnterpriseOne systems that have requested notification when the specified transactions occur to return a response.
XML CallObject	An interoperability capability that enables you to call business functions.
XML Dispatch	An interoperability capability that provides a single point of entry for all XML documents coming into JD Edwards EnterpriseOne for responses.
XML List	An interoperability capability that enables you to request and receive JD Edwards EnterpriseOne database information in chunks.
XML Service	An interoperability capability that enables you to request events from one JD Edwards EnterpriseOne system and receive a response from another JD Edwards EnterpriseOne system.
XML Transaction	An interoperability capability that enables you to use a predefined transaction type to send information to or request information from JD Edwards EnterpriseOne. XML transaction uses interface table functionality.
XML Transaction Service (XTS)	Transforms an XML document that is not in the JD Edwards EnterpriseOne format into an XML document that can be processed by JD Edwards EnterpriseOne. XTS then transforms the response back to the request originator XML format.
Z event	A service that uses interface table functionality to capture JD Edwards EnterpriseOne transactions and provide notification to third-party software, end users, and other JD Edwards EnterpriseOne systems that have requested to be notified when certain transactions occur.
Z table	A working table where non-JD Edwards EnterpriseOne information can be stored and then processed into JD Edwards EnterpriseOne. Z tables also can be used to retrieve JD Edwards EnterpriseOne data. Z tables are also known as interface tables.
Z transaction	Third-party data that is properly formatted in interface tables for updating to the JD Edwards EnterpriseOne database.

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