



Installation and Migration Guide

Note

Before using this information and the product it supports, be sure to read the information general information under "Notices and Trademarks" on page 103.

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Introduction

Whether you are installing IBM WebSphere Business Modeler Version 6.1.2 for the first time or upgrading from an earlier version of the product, the installation and migration information contains the instructions that you need.

If you are installing WebSphere Business Modeler for the first time, simply follow the installation instructions.

If you are upgrading from an earlier version of the product, it is recommended that you plan and prepare for your migration for several reasons:

- Product changes from one release to the next might affect the migration of your projects.
- Changes to installation prerequisites from one release to the next might mean that you need to upgrade hardware or other software.
- Because you can have only one Version 6 copy of WebSphere Business Modeler installed on your computer, you might want to test the migration of your Version 6.0 or Version 6.0.1 projects before you install the product on your computer.

WebSphere Business Modeler Version 6.1.2 is Built on Eclipse (www.eclipse.org). Eclipse is an open source community committed to the implementation of a universal development platform.

For more product information, check the resources available at the WebSphere Business Modeler library Web site: <http://www.ibm.com/software/integration/wbimodeler/library/>

Related concepts

Chapter 1, “Migration planning”, on page 1

Before you start your migration to IBM WebSphere Business Modeler Version 6.1.2, review the migration process, suggestions, and post-migration considerations.

Related tasks

“Preparing to migrate” on page 4

To ensure the success of your migration, start by preparing your projects or organizations and by making any upgrades required to your hardware or to other software.

Chapter 3, “Installing WebSphere Business Modeler”, on page 17
You can install IBM WebSphere Business Modeler Advanced Version 6.1.2 as a stand-alone product, or install it so that it integrates with other compatible products.

Chapter 7, “Configuring WebSphere Business Modeler”, on page 53
You might need to configure some IBM WebSphere Business Modeler settings to ensure that you can use all the product functions that you require. If you have installed a DB2 database, you might need to optimize its configuration to enhance your simulation and dynamic analysis performance.

Chapter 8, “Migrating projects or organizations overview”, on page 71
After installing IBM WebSphere Business Modeler, you must either create a Version 6.1.2 workspace and migrate your projects to it or migrate your workspace along with its projects.

Chapter 1. Migration planning

Before you start your migration to IBM WebSphere Business Modeler Version 6.1.2, review the migration process, suggestions, and post-migration considerations.

Migration process

In addition to migrating the product when you migrate from one version of WebSphere Business Modeler to another, you must either migrate your workspace or create a new one and migrate your projects or organizations.

After you ensure that your current process models are error-free and that your system can support the new product version, you can install WebSphere Business Modeler as a stand-alone product or as a set of Eclipse plug-ins.

After you have installed WebSphere Business Modeler Version 6.1.2, you can migrate your projects or organizations in one of three ways:

- Importing projects that you exported from the version of the product that you have now
- Checking projects out of a team repository
- Migrating an entire Version 5, 6, 6.0.1 or 6.0.2, 6.1, or 6.1.1 workspace and the projects that it contains

Depending on the version of the product that you have now, you might have to perform some additional work on your projects or organizations after you migrate them to ensure that they work properly with WebSphere Business Modeler Version 6.1.2 enhancements.

Migration suggestions

To ensure a clean transfer of your process models to WebSphere Business Modeler Version 6.1.2, it is suggested that you follow these migration practices:

1. Open, check, and clean up each model that you want to migrate in the version of the product that you have now. For a smooth migration, it is recommended that you ensure that your process models are error-free before you migrate them. If you are migrating from WebSphere Business Integration Workbench Version 4.2.4, you must perform additional preparation of your organizations for migration.

2. Delete any obsolete projects or organizations. Also delete any project or organization elements (such as individual processes) that you no longer need. Reducing the number and size of projects or organizations that you migrate speeds up the migration process.
3. Transfer your projects or organizations by exporting them from the version of the product that you have now and importing them into WebSphere Business Modeler Version 6.1.2.
4. Keep a copy of the version of WebSphere Business Modeler from which you are migrating so that you can correct any projects that might fail to migrate successfully. If you are currently using WebSphere Business Modeler Version 6.0, 6.0.1, 6.1, or 6.1.1, then install the Version 6.1.2 product separately so that you retain a copy of your earlier version until you are sure that your projects will migrate successfully.
5. If you are working with multiple languages, it is recommended that you create a different workspace for each language that you plan to work in. If you currently have different language projects within the same workspace, it is recommended that you create a different workspace for each language and import each project into the workspace that was created with the appropriate language setting.

Post-migration considerations

Depending on the version of the product from which you are migrating, you have different issues to consider when you upgrade to WebSphere Business Modeler Version 6.1.2. The following table lists the post-migration considerations for each supported migration.

Product from which you are migrating	Post-migration considerations
WebSphere Business Integration Workbench Version 4.2.4	<ul style="list-style-type: none"> • Most of the WebSphere Business Integration Workbench organization elements and information map to WebSphere Business Modeler projects in a straightforward way. However, due to differences in the underlying structure of the two products, some elements and attributes do not migrate. • Business measures defined in Version 4.2.4 performance models will no longer be available. You must re-create the business measures in Version 6.1.2. • Reports, views, and tables for viewing data in WebSphere Business Integration Workbench sometimes have no recommended replacements in WebSphere Business Modeler. • Only simulation settings in WebSphere Business Integration Workbench that have corresponding settings in WebSphere Business Modeler Version 6.1.2 are migrated. To include simulation information in your new Version 6.1.2 projects, you must select a simulation profile when you import your Version 4.2.4 organizations. Then, you must rerun the simulations in Version 6.1.2.
WebSphere Business Integration Modeler Version 5	<ul style="list-style-type: none"> • Report templates created in Version 5 will no longer be available. You must re-create the report templates in Version 6.1.2. • Simulation results generated in Version 5 will no longer be available. You must rerun the simulations in Version 6.1.2.
WebSphere Business Modeler Version 6 or Version 6.0.1	<ul style="list-style-type: none"> • Business measures defined in Version 6 or Version 6.0.1 will no longer be available. You must re-create the business measures in Version 6.1.2. • Report templates created in Version 6 or Version 6.0.1 that rely on a business measure data source will no longer be available. • Custom reports that use a dynamic analysis data source might not be able to access some data. The structure and semantics have changed for some dynamic analysis data, so it might be necessary to change the affected report fields (their labels or the data location to which they point). • Simulation results generated in Version 6 or Version 6.0.1 will no longer be available. You must rerun the simulations in Version 6.1.2.

Product from which you are migrating	Post-migration considerations
WebSphere Business Modeler Version 6.0.2	<ul style="list-style-type: none"> Simulation results generated in Version 6.0.2 will no longer be available. You must rerun the simulations in Version 6.1.2.
Any version previous to Version 6.1	<p>In Version 6.1, new functionality was added to allow you to share elements across projects in a workspace. This new functionality brings some extra restrictions on duplicate element identifiers and element names:</p> <ul style="list-style-type: none"> If two elements with the same internal identifier are detected in the workspace after migration, these will be flagged with errors. You should clean up these errors by deleting the duplicate elements before using your models. The elements can then be shared between projects as needed. <p>If you migrate your projects by exporting them from an earlier version and importing them into Version 6.1, the import wizard notifies you if it detects any duplicate identifiers and prompts you to overwrite or skip any duplicate elements.</p> <ul style="list-style-type: none"> If you have two projects in your workspace that contain catalogs with the same name, any elements within those catalogs must be named uniquely. If two elements have the same name and they reside in catalogs with the same name, you should rename these elements to unique names after migrating. Migrated report templates that use names for identification might produce multiple results in the output if there are multiple elements with the same name.
WebSphere Business Modeler Version 6.1.x	There are no post-migration considerations when moving from Version 6.1 or Version 6.1.1.

Preparing to migrate

To ensure the success of your migration, start by preparing your projects or organizations and by making any upgrades required to your hardware or to other software.

To prepare to migrate, complete the following steps:

1. Review the migration process, suggestions, and any post-migration considerations related to moving from the version of the product that you have now to IBM WebSphere Business Modeler Version 6.1.2.

Important: Any business measures created using WebSphere Business Modeler Version 6.0.1 or earlier must be reentered with the newer, simplified business measures feature in WebSphere Business Modeler Advanced.

2. Check the WebSphere Business Modeler Version 6.1.2 installation prerequisites, and make any upgrades required to your hardware or to other software. Also check the release notes for installation notes and the WebSphere Business Modeler Support Web site (<http://www.ibm.com/software/integration/wbimodeler/support/>) for any relevant technotes.
3. Complete your migration preparation:
 - “Preparing Version 4.2.4 organizations for migration”
 - “Preparing projects for migration” on page 6

Preparing Version 4.2.4 organizations for migration

You can make the migration of an IBM WebSphere Business Integration Workbench Version 4.2.4 organization to a IBM WebSphere Business Modeler project easier to accomplish by preparing the organization first.

To prepare an organization for migration, complete the following steps:

1. Ensure that all the objects in your organization are named and have valid input and output connectors. Unconnected objects can cause problems in the migration.
2. Minimize the use of any go-to nodes in your original model. Go-to nodes are transformed into connections during migration. However, the resulting connections can sometimes be difficult to follow visually because they run backwards across the diagram and often cross over multiple connections.
3. If you have any media information in your model, associate it with a task as an additional resource:
 - a. Create a task with a classification to indicate that it represents the act of moving data from one point to another.
 - b. Associate the media with this new task as an additional resource.

Media information is not directly migrated into WebSphere Business Modeler. If you carry out this preparation, the task and resource that you create preserve media information as a bulk resource associated with the new task.

4. If you have any transfer duration information in your model, associate it with a task as working duration:
 - a. Create a task with a classification to indicate that it represents the act of moving data from one point to another.
 - b. Associate a working duration with the task to indicate how long it takes to move the data from one point to the next.

Transfer duration data is not migrated into WebSphere Business Modeler. If you carry out this preparation, the timing information is preserved by the new task.

5. If you plan to use the simulation capability of WebSphere Business Modeler, then ensure that there is a phi at the start of every process in your WebSphere Business Integration Workbench organization. Also ensure that this phi is connected to the first task of the process. If the process contains multiple sets of tasks running in parallel, make sure that an initial phi is connected to the first task of each of these sets. If the phi is missing, then the migrated model will use start nodes. When the simulation is run, tasks attached to a start node begin running without requiring an input to initiate them.
6. Ensure that the phis leading to and from each subprocess are compatible with the phis used to define the inputs and outputs inside the subprocess model. This ensures that the WebSphere Business Integration Workbench validation occurs properly and makes migration easier.

A missing phi at the input of a subprocess causes the migrated subprocess to begin with a start node, which means that the subprocess starts running independently of the larger process being modeled. A missing phi at the output of a subprocess causes tasks after the subprocess to start running once the subprocess has completed, but without receiving any information from that subprocess.

Generally, a missing phi causes any data flow in the subprocess to be ignored, creating a model based on control flow only.

7. Use the WebSphere Business Integration Workbench Validate tool to ensure that the model you want to migrate is valid before migration. Fix any validation errors that you receive.
8. Export the organizations that you plan to migrate.

You can now install WebSphere Business Modeler.

Related reference

“Element mapping” on page 76

Most IBM WebSphere Business Integration Workbench organization elements, settings, and attributes map to IBM WebSphere Business Modeler projects. However, some elements, settings, and attributes do not migrate.

“Report mapping” on page 87

In certain cases, the reports, views, and tables that are available for viewing data in IBM WebSphere Business Integration Workbench have replacements in IBM WebSphere Business Modeler.

Preparing projects for migration

Before you migrate your earlier version projects to IBM WebSphere Business Modeler Version 6.1.2, you should prepare them to ensure a smooth migration.

To prepare projects for migration, complete the following steps:

1. If you have any projects that you exported and that you want to migrate, import them into your workspace. Importing these projects before you migrate your product allows you to perform a final validation of them before migration. It also improves the efficiency of the process model migration because you can migrate an entire workspace at one time.
2. Delete any projects or process models that you do not want to migrate.
3. Validate each process model that you plan to migrate using the Errors view, and correct any errors that you find.
4. If you plan to migrate your projects by importing them into WebSphere Business Modeler Version 6.1.2, export your projects.
5. If you use the versioning feature of WebSphere Business Modeler, check your projects into your version control system (for example, CVS).
6. If you plan to migrate your entire workspace, close all open editors and ensure that you have enough disk space to carry out the migration. You need enough disk space to install the new version of the product and for the migration process to create a backup of your workspace. If you have insufficient disk space to back up the workspace, you can migrate your projects by exporting them.

Remember: If you choose to migrate a Version 6.x workspace automatically, make sure that you have a copy of the product from which you are migrating available in which you can correct any projects that fail to migrate successfully. Installing WebSphere Business Modeler Version 6.1.2 overwrites earlier Version 6.x product code.

Tip: Whenever you want to create a new workspace, it is a good idea to start with a renamed copy of an existing workspace. This will save you from having to reset all your preferences, links to CVS, and publishing server, and eliminates the need to regenerate the index for the help documentation in the new workspace.

You can now install WebSphere Business Modeler as a stand-alone product or as a set of Eclipse plug-ins.

Chapter 2. Planning to install

Read all the topics in this section before you begin to install any of the product features. Effective planning and an understanding of the key aspects of the installation process can help ensure a successful installation.

Installation requirements

This section details hardware, software, and user privileges requirements that must be met in order to successfully install and run your software.

For the most up-to-date, detailed system requirements, refer to <http://www.ibm.com/software/integration/wbimodeler/advanced/sysreq/>.

Prerequisites

To install and run IBM WebSphere Business Modeler Version 6.1.2, you must meet the hardware and software requirements for the product. If you want to take advantage of the project versioning capabilities of WebSphere Business Modeler, you must meet additional software requirements.

Note: If you need to carry out large-scale or complex simulations, you can enhance the performance of the simulation functionality by configuring WebSphere Business Modeler to work with IBM DB2 Express 9. See the “Prerequisites for enhanced simulation performance” on page 11 for details about the additional requirements you must meet to use DB2 Express 9.

Hardware prerequisites

For WebSphere Business Modeler Advanced Version 6.1.2, you must meet the following minimum hardware requirements.

Hardware component	Requirement
Processor	Pentium 4 1.4 GHz or higher
Available RAM	1 GB (2 GB recommended)
Available disk space	1 GB for installation and additional disk space for file storage
Display	Minimum 1024 by 768 resolution (1280 by 1024 or higher recommended)

Software prerequisites

The correct Java Runtime Environment (JRE) is configured for use when the product is installed. Do not reconfigure your Eclipse environment to use a different JRE when using WebSphere Business Modeler.

Software prerequisites for the stand-alone implementation

To install and run WebSphere Business Modeler, you must be running one of the following operating systems:

- Windows XP with Service Pack 2 or later
- Windows Vista Business (32-bit)
- Windows Vista Enterprise (32-bit)

You must have administrator privileges on your operating system to install WebSphere Business Modeler. These privileges are not required to run WebSphere Business Modeler after it is installed.

Software prerequisites for installation with other products

You can install and run WebSphere Business Modeler so that it is integrated with the other products based on Eclipse 3.2.2 as part of the same package group. You must meet all of the software requirements for the stand-alone installation as well as the requirements for the software that WebSphere Business Modeler will integrate with. Integration with the following products is supported:

- WebSphere Integration Developer Version 6.1.2
- WebSphere Business Monitor Toolkit Version 6.1.2
- WebSphere Message Broker Version 6.1.0.2
- Rational Software Architect Version 7.0.0.x
- Rational Application Developer Version 7.0.0.x
- Rational Software Modeler Version 7.0.0.x
- Rational Web Developer Version 7.0.0.x

Note: This list is not exhaustive but represents a list of products often used with WebSphere Business Modeler.

Software prerequisites for documentation

To view the technical documentation in the help system, you must have one of the following Web browsers installed as your default system browser:

- Microsoft Internet Explorer Version 6.0 or later
- A Mozilla-based browser, version 1.7 or later

For older browser levels or other browser types, some functionality might not be available.

To view or print the PDF documents that are included with the product and in the help system, you must have the following software:

- Adobe Acrobat Reader Version 4.05 or later
- Acrobat Web plug-in installed in your browser

Adobe Acrobat Reader is available for download from adobe.com

Software prerequisites for project versioning

To use the project versioning capabilities of WebSphere Business Modeler, you must install either Concurrent Versions System (CVS) or IBM Rational ClearCase.

If you set up a Concurrent Versions System (CVS) server, it must be compatible with Eclipse 3.2.2. The following options are recommended:

- For a Linux or UNIX server: CVS 1.11.1p1 to 1.11.21 and 1.12.12
- For a Windows server: CVSNT 2.0.58d or higher

More information about compatibility between CVS and Eclipse can be found at http://wiki.eclipse.org/index.php/CVS_FAQ#What_server_v.

CVS for Linux and UNIX operating systems is available at www.nongnu.org/cvs/. You can download CVSNT from www.cvsnt.org. Refer to these sites for information about how to install and configure your CVS team repository, including how to set up user access and passwords.

If you set up a Rational ClearCase server, you must install either Rational ClearCase version 2003.06.15 or 7.0.1 for Windows operating systems.

Software prerequisites for sharing project assets

To use the asset repository support provided by WebSphere Business Modeler you must have installed Rational Asset Manager Version 7.1

Prerequisites for enhanced simulation performance

If you are running highly complex or large-scale simulations of business processes, storing the simulation results in a DB2 database can significantly improve the speed with which the simulations and any analyses of those simulations complete. If you want to install IBM DB2 Express 9, you must meet the hardware and software requirements for that product.

DB2 software prerequisites

DB2 Express 9 is supported for use with IBM WebSphere Business Modeler Version 6.1.2.

DB2 hardware prerequisites

Refer to the DB2 Express 9 documentation regarding the minimum hardware prerequisites for installation and usage.

Note: The more RAM and disk space that you have available for the DB2 database and for WebSphere Business Modeler, the better your simulation performance will be.

To run WebSphere Business Modeler with DB2 Express 9, it is recommended that you use a computer with two separate hard disks: one to store the database table and the other to store the database logs. This recommendation applies whether the database is installed on your computer or on a remote server.

Related information



DB2 Information Center (<http://publib.boulder.ibm.com/infocenter/db2luw/v9/index.jsp>)

User privileges requirements

You must have a user ID that meets the following requirements before you can install WebSphere Business Modeler.

- The user privileges required for installing depend on the version of Windows on your computer:
 - **For Windows Vista**, you must log in to the Administrator account (or run as Administrator; right-click the program file or shortcut and select **Run as Administrator**) to perform the following tasks:
 - Install or update IBM Installation Manager (the application that installs and updates WebSphere Business Modeler)
 - Install or update a product offering

Note: To enable users who are not an Administrator to work with on a WebSphere Business Modeler Windows Vista system:

- Do not install WebSphere Business Modeler into a package group (installation location) in the Program Files directory (C:\Program Files\) and do not choose a shared resources directory in the Program Files directory. By default, the package group installation location on Windows Vista systems is C:\Program Files IBM\.
- **For other supported Windows versions**, you must have a user ID that belongs to the Administrators group.

Installation scenarios

There are a number of scenarios that you can follow when installing WebSphere Business Modeler.

The following are some of the factors that might determine your installation scenario:

- The format and method by which you access your installation files (for example, from the installation DVD or files downloaded from IBM Passport Advantage).
- The location for your installation (for example, you can install the product onto your own workstation, or make the installation files available to your enterprise).
- The type of installation (for example, you can use the Installation Manager wizard, or install silently).

These are the typical installation scenarios you might follow:

- Installing from the DVD.
- Installing from a downloaded electronic image on your workstation.
- Installing from an electronic image on a shared drive.
- Install from a repository on an HTTP or HTTPS server.

Note that in the latter three scenarios you can choose to run the Installation Manager program in silent mode to install WebSphere Business Modeler. For details on running Installation Manager in silent mode, see Chapter 5, “Installing WebSphere Business Modeler silently”, on page 29.

Note also that you can install updates at the same time that you install the base product package.

Installing from the Installation DVD

In this installation scenario, you have the DVD that contains the product package files, and typically you are installing WebSphere Business Modeler on your own workstation. Refer to “Installing WebSphere Business Modeler from the DVD: task overview” on page 21 for an overview of the steps.

Installing from a downloaded electronic image on your workstation

In this scenario, you have downloaded the installation files from IBM Passport Advantage and you will install WebSphere Business Modeler on your own workstation. Refer to “Installing WebSphere Business Modeler from an electronic image on your workstation: task overview” on page 22 for an overview of the steps.

Installing from an electronic image on a shared drive

In this scenario, you will place the electronic image on a shared drive so that users in your enterprise can access the installation files for WebSphere Business Modeler from a single location. Refer to “Installing WebSphere Business Modeler from an electronic image on a shared drive: task overview” on page 23 for an overview of the steps.

Installing from a repository on an HTTP server

This scenario represents the fastest method for installing the product across a network. This scenario differs from the shared-drive installation. In order to place product package files for WebSphere Business Modeler on an HTTP Web server, you must use this utility application – IBM Packaging Utility. This utility is provided with WebSphere Business Modeler to copy the installation files in a format - a *package* - that can be used for installing WebSphere Business Modeler directly from a HTTP Web server. The directory on the HTTP Web server that contain the package is called a *repository*. Note that, in this scenario, the installation files for WebSphere Business Modeler only are placed in the package. Refer to “Installing WebSphere Business Modeler from a repository on an HTTP Web server: task overview” on page 23 for an overview of the steps.

Coexistence considerations

If you plan to install multiple IBM Eclipse-based products on the same workstation, review the information in this section.

Offering coexistence considerations

Some products are designed to coexist and share function when they are installed in the same package group. A package group is a location where you can install one or more software products or packages. When you install each package, you select whether you want to install the package to an existing package group, or whether you want to create a new one. IBM Installation Manager will block products that are not designed to share or do not meet version tolerance and other requirements. If you want to install more than one product at a time, the products must be able to share a package group.

Any number of eligible products can be installed to a package group. When a product is installed, its function is shared with all of the other products in the package group. If you install a development product and a testing product into one package group, when you start either of the products, you have both the development and testing functionality available to you in your user interface. If you add a product with modeling tools, all of the products in the package group will have the development, testing, and modeling functionality available.

Note: Each product installed into a unique location may be associated with only one package group. A product must be installed into multiple locations in order to be associated with multiple package groups.

Package groups and the shared resource directory

When you install the WebSphere Business Modeler package using IBM Installation Manager, you must choose a package group and a shared resource directory.

Package groups

During the installation process, you must specify a *package group* for the WebSphere Business Modeler package. A package group represents a directory in which packages share resources with other packages in the same group. When you install the WebSphere Business Modeler package using Installation Manager, you can create a new package group or install the packages into an existing package group. (Some packages might not be able to share a package group, in which case the option to use an existing package group will be disabled.)

Note that when you install multiple packages at the same time, all the packages are installed into the same package group.

A package group is assigned a name automatically; however, you choose the installation directory for the package group.

You cannot change the installation directory associated with a package group after that package group has been created. The installation directory contains files and resources specific to the WebSphere Business Modeler package installed into that package group. Resources in the product package that can potentially be used by other package groups are placed in the shared resources directory.

Important: To enable users who do not have Administrator privileges to work with WebSphere Business Modeler in the Windows Vista operating system, do not choose a directory inside the Program Files directory (C:\Program Files\) for the location of the package group.

Shared resources directory

The *shared resources directory* is the directory where installation artifacts are located so that they can be used by one or more product package groups.

Important:

- You can specify the shared resources directory once only: the first time that you install a package. For best results, use your largest drive for this. You cannot change the shared resources directory later unless you uninstall all packages.
- To enable users who do not have Administrator privileges to work with WebSphere Business Modeler on a Windows Vista system, do not choose a directory inside the Program Files directory (C:\Program Files\) for the location of the shared resources directory.

Chapter 3. Installing WebSphere Business Modeler

You can install IBM WebSphere Business Modeler Advanced Version 6.1.2 as a stand-alone product, or install it so that it integrates with other compatible products.

If you are migrating from an earlier version of the product, make sure that you have finished preparing for migration before you start the installation process. Also check the release notes for installation notes and the WebSphere Business Modeler Support Web site (<http://www.ibm.com/software/integration/wbimodeler/support/>) for any relevant technotes.

If you are migrating from IBM WebSphere Business Integration Workbench Version 4.2.4 or IBM WebSphere Business Integration Modeler Version 5, or Version 6.0.x, you can have copies of these products installed on the same computer as WebSphere Business Modeler Version 6.1.2.

If you are Migrating from WebSphere Business Modeler Version 6.1.1, you can either install Version 6.1.2 into its own new package group, or use the Update package wizard to migrate your existing package group to the latest version of the product.

If you previously installed Version 6.1.1 so that it shares a package group with other supported products, and you want to update the existing package group, you must use the Update Packages wizard to update all of your products at the same time.

After you complete the installation of WebSphere Business Modeler, you must choose a workspace to hold your process modeling projects or migrate your existing workspace.

Installation quick reference

Managing your WebSphere Business Modeler package installation involves several different tasks, for example installing the package, applying updates, and adding additional features to the package.

The following table presents a list of objectives related to managing your WebSphere Business Modeler package, a set of high-level steps for accomplishing each objective, and the result of performing those steps.

Installation objective	Installation steps	Result
Install WebSphere Business Modeler into an existing Eclipse environment. For example, if WebSphere Integration Developer is already installed and you want to install WebSphere Business Modeler along side it.	<p>Install WebSphere Business Modeler into a package group with other compatible Eclipse-based products:</p> <ol style="list-style-type: none"> 1. Begin the installation following the steps in “Installing WebSphere Business Modeler from the product launchpad program” on page 24 2. On the second Location panel of the Install Packages wizard, Select Use the existing package group. 3. Follow the on-screen instructions on the Install Packages wizard to complete the installation. 	WebSphere Business Modeler shares a user interface, or workbench, with all products installed in the same package group.
Install WebSphere Business Modeler as a stand-alone product.	<p>Install the WebSphere Business Modeler package into its own package group:</p> <ol style="list-style-type: none"> 1. Begin the installation following the steps in “Installing WebSphere Business Modeler from the product launchpad program” on page 24 2. On the second Location panel of the Install Packages wizard, Select Create a new package group. 3. Follow the on-screen instructions on the Install Packages wizard to complete the installation. 	WebSphere Business Modeler product does not share a user interface or workbench with other Eclipse-based products.

Installation objective	Installation steps	Result
Install WebSphere Business Modeler with the intention to install additional Eclipse-based products as plugins (for example, WebSphere Integration Developer) in the future.	<p>Install WebSphere Business Modeler into its own package group:</p> <ol style="list-style-type: none"> 1. Begin the installation following the steps in “Installing WebSphere Business Modeler from the product launchpad program” on page 24 2. On the second Location panel of the Install Packages wizard, Select Create a new package group. 3. Follow the on-screen instructions on the Install Packages wizard to complete the installation. 4. During subsequent installations of compatible Eclipse-based products, install additional product packages into the package group where WebSphere Business Modeler is installed. 	WebSphere Business Modeler is installed first. Additional Eclipse-based products are installed later and share a user-interface or workbench with WebSphere Business Modeler.

Installation objective	Installation steps	Result
Add additional national language support to an existing installation of WebSphere Business Modeler Version 6.1.2.	<p>Install the national language versions of the packages, and modify the language setting for the package group:</p> <ol style="list-style-type: none"> 1. From the Installation Manager Start page, click Update Packages. 2. Follow the steps in the wizard to apply the national language version update for WebSphere Business Modeler if you have not already done so. 3. From the Installation Manager Start page, click Modify Packages. 4. Follow the steps in the wizard to change the language settings for the package group where WebSphere Business Modeler is installed. 	Additional national language support is installed. The user interface and documentation appears in the specified language. This language setting applies to WebSphere Business Modeler and all packages installed in the same package group.
Install updates to WebSphere Business Modeler	<p>Use the Update Packages wizard to update the WebSphere Business Modeler package:</p> <ol style="list-style-type: none"> 1. From the Installation Manager Start page, click Update Packages. 2. Follow the steps in the wizard to add the recommended updates. 	Recommended fixes are downloaded and applied to the WebSphere Business Modeler package.

Installation objective	Installation steps	Result
Uninstall WebSphere Business Modeler	<p>Use the Uninstall Packages wizard to uninstall the WebSphere Business Modeler package:</p> <ol style="list-style-type: none"> 1. From the Installation Manager Start page, click Uninstall Packages. 2. Follow the steps in the wizard to complete the uninstall operation. 	<p>WebSphere Business Modeler is uninstalled. Other products that were installed into the same package group remain installed.</p>

Preinstallation tasks

Before you install the product, complete these steps:

1. Confirm that your system meets the requirements described in the section “Installation requirements” on page 9.
2. Confirm that your user ID meets the required access privileges for installing the product. See “User privileges requirements” on page 12.
3. Read the section Chapter 2, “Planning to install”, on page 9 and give particular attention to the topic “Coexistence considerations” on page 14.

Installation overview

The following sections provide an overview of the installation scenarios that are described in the section “Installation scenarios” on page 13. You can access detailed instructions from links in the main steps.

Installing WebSphere Business Modeler from the DVD: task overview

In this installation scenario, you have the installation DVD that contain the installation files, and typically you are installing WebSphere Business Modeler on your own workstation.

The following are the general steps for installing from the installation DVD:

1. Complete the preinstallation steps listed in “Preinstallation tasks”.
2. Insert the installation DVD into your DVD drive.
3. If autorun is enabled on your system, the WebSphere Business Modeler launchpad program automatically opens. If autorun is not enabled, start the launchpad program. Refer to “Starting the launchpad program” on page 24 for details.

Note: If IBM Installation Manager is not detected on your workstation, then it is installed at the same time as the WebSphere Business Modeler package.

4. Follow the on-screen instructions in the Install Packages wizard to complete the installation.

Note: If you exit Installation Manager before completing the product installation, you must restart Installation Manager from the launchpad. If you start the Installation Manager directly, it is not preconfigured with the necessary installation repositories.

Installing WebSphere Business Modeler from an electronic image on your workstation: task overview

The following are the general steps for installing WebSphere Business Modeler from an electronic installation image:

1. Ensure that your workstation has sufficient space to store both the files you must download from IBM Passport Advantage and the extracted installation image. Refer to “Prerequisites” on page 9.
2. Download all required parts for the product image from IBM Passport Advantage to a temporary directory.
3. Extract the installation image from the downloaded file.
4. Continue with the steps in “Installing from an electronic image” below.

Installing from an electronic image

1. Complete the preinstallation steps listed in “Preinstallation tasks” on page 21.
2. Start the launchpad program. Refer to “Starting the launchpad program” on page 24 for details.
3. Start the installation of WebSphere Business Modeler from the Launchpad. For details, see “Starting the launchpad program” on page 24.

If IBM Installation Manager is not detected on your workstation, then it is installed at the same time as the WebSphere Business Modeler package.

4. Follow the on-screen instructions in the Install Packages wizard to complete the installation. For complete details, see “Installing WebSphere Business Modeler using the IBM Installation Manager graphical interface” on page 43.

Note: If you exit Installation Manager before completing the product installation, you must restart Installation Manager from the launchpad and configure it to point to the correct installation repository.

Installing WebSphere Business Modeler from an electronic image on a shared drive: task overview

In this scenario, you will place the electronic image on a shared drive so that users in your enterprise can access the installation files for WebSphere Business Modeler from a single location.

The following steps are performed by the person who places the installation image on a shared drive.

1. Ensure that your shared drive has sufficient disk space to store both the files you must download from IBM Passport Advantage and the extracted installation image. Refer to “Prerequisites” on page 9 for details.
2. Download all required parts for the product image from IBM Passport Advantage to a temporary directory on the shared drive.
3. Extract the installation image from the downloaded files into an accessible directory on the shared drive.

To install WebSphere Business Modeler from the installation files on the shared drive:

1. Change to the disk1 directory on the shared drive containing the installation image.
2. Follow the steps in “Installing from an electronic image” on page 22.

Installing WebSphere Business Modeler from a repository on an HTTP Web server: task overview

In this scenario, the product packages are retrieved by IBM Installation Manager from an HTTP Web server.

These steps assume the repository containing the package for WebSphere Business Modeler has been created on the HTTP Web server.

To install the WebSphere Business Modeler package from a repository on an HTTP server:

1. Complete the preinstallation steps listed in “Preinstallation tasks” on page 21.
2. Install IBM Installation Manager. Refer to “Working with IBM Installation Manager” on page 46. In this scenario, for example, the Installation Manager installation files are available from a shared drive.
3. Start Installation Manager. Refer to “Starting Installation Manager” on page 47 for details.
4. Set the URL of the repository containing the package of WebSphere Business Modeler as a repository preference in Installation Manager. See “Setting repository preferences in Installation Manager” on page 42.

5. Start the Install Packages wizard in Installation Manager and follow the on-screen instructions in the Install Packages wizard to complete the installation. For complete details, see “Installing WebSphere Business Modeler using the IBM Installation Manager graphical interface” on page 43.

Installing WebSphere Business Modeler from the product launchpad program

The product launchpad program provides you with a single location to view release information and start the installation process.

Use the product launchpad program to start the installation of WebSphere Business Modeler in the following cases:

- Installing from the installation DVD
- Installing from an electronic image on your local file system
- Installing from an electronic image on a shared drive

By starting the installation process from the launchpad program, IBM Installation Manager is automatically installed if it is not already on your computer, and it is automatically configured with the location of the repository that contains the WebSphere Business Modeler package. If you install Installation Manager by itself and then use it to install WebSphere Business Modeler, then you must set repository locations manually. See “Setting repository preferences in Installation Manager” on page 42 for details on how to set repository preferences.

To install from the launchpad:

1. Complete the preinstallation tasks described in “Preinstallation tasks” on page 21, if you have not done so already.
2. Start the WebSphere Business Modeler launchpad program. See “Starting the launchpad program”.
3. Click **Install WebSphere Business ModelerAdvanced**.

Note: If IBM Installation Manager is not detected on your workstation, then it is installed at the same time as the WebSphere Business Modeler package. Refer to “Installing Installation Manager” on page 46 for more information.

Follow the on-screen instructions in the Install Packages wizard to complete the installation. For complete details, see “Installing WebSphere Business Modeler using the IBM Installation Manager graphical interface” on page 43.

Starting the launchpad program

Complete the preinstallation tasks described in “Preinstallation tasks” on page 21, if you have not done so already.

If you are installing from the installation DVD and autorun is enabled on your workstation, then the WebSphere Business Modeler launchpad starts automatically when you insert the first installation DVD into your DVD drive. If you are installing from an electronic image, or if autorun is not configured on your workstation, then you must start the launchpad program manually.

To start the launchpad program:

1. Insert the WebSphere Business Modeler DVD into your DVD drive.
2. If autorun is enabled on your system, the WebSphere Business Modeler launchpad program automatically opens. If autorun is not enabled on your system, run `launchpad.exe` located in the root directory of the DVD.

Starting WebSphere Business Modeler

You can start WebSphere Business Modeler from the desktop environment or a command-line interface.

Click **Start** → **Programs** → **WebSphere Business Modeler** → **WebSphere Business Modeler Advanced Version 6.1.2** → **WebSphere Business Modeler Advanced Version 6.1.2**.

To start WebSphere Business Modeler from a command-line, run **<package group installation directory>\eclipse.exe**

By default, the **<package group installation directory>** is `C:\Program Files\IBM\WBModeler61` for Windows and `C:\Program Files IBM\WBModeler61` for Windows Vista installations.

Chapter 4. Installing optional software

Additional software to supplement the function of WebSphere Business Modeler is available with the product and can optionally be installed.

Installing Lotus Forms software

The Lotus Forms software is included with the WebSphere Business Modeler installation image and can be optionally installed.

The following products are available for optional install.:

- IBM Lotus Forms Designer 3.0.1
- IBM Lotus Forms Viewer 3.0.1

1.

- If you are installing the Lotus Forms products from the Lotus Forms installation CD, insert the CD into the CD drive.
- If you have the electronic installation image of WebSphere Business Modeler extracted to a directory, then you need to create a new directory in this image directory to extract the files for each of the optional products that you want to install. For Lotus Forms Designer, create a directory **forms_designer**. For Lotus Forms Viewer, create a directory called **forms_viewer**.

For example, if you have the WebSphere Business Modeler electronic installation image in a directory called **image_directory**, then you should extract the files for Lotus Forms Designer to **image_directory/forms_designer** and for Lotus Forms Viewer to **image_directory/forms_viewer**.

2. Start the installation launchpad. For details, see “Starting the launchpad program” on page 24.
3.
 - To install Lotus Forms Designer, click **Install IBM Lotus Forms Designer 3.0.1**.
 - To install Lotus Forms Viewer, click **Install IBM Lotus Forms Viewer 3.0.1**.
4. If you are installing from an electronic image, browse to the directory containing the directory for the product you are installing. For example, browse to **image_directory** if that is the location of the directories that you created in step 1. If you are installing from the Lotus Forms installation CD, browse to the root of the installation CD.
5. Follow the on-screen instructions to complete the installation.

Note: If you are installing into an existing IBM Software Development Platform package and you do not accept the default installation directory presented by the Lotus Forms installation wizard, ensure that you select a valid installation directory where an IBM Software Development Platform package is installed. For example, if you installed WebSphere Business Modeler using the default directories provided by the Installation Manager, the installation directory where the IBM Software Development Platform package is installed is:

- On Windows Vista: C:\Program Files\IBM\WBModeler61
- On other supported Windows platforms: C:\Program Files\IBM\WBModeler61

Note that these installation directories are distinct from the directories where shared resources are installed. For example, shared resources on Windows are installed in C:\Program Files\IBM\SDP70Shared by default. Do not select this directory to install additional software products.

Installing Asset Repository support

Asset Repository is an optional feature that enables WebSphere Business Modeler to use Rational Asset Manager Version 7.1 as a repository for storing and sharing assets, such as processes. These can be assets that you create and share, or can be assets that others have developed and made available for you to access.

You can install the Asset Repository support at the same time that you install WebSphere Business Modeler by selecting it from the list of available packages. If you have already installed WebSphere Business Modeler, you can add the Asset Repository support by modifying the package group that contains WebSphere Business Modeler. Follow the instructions in “Modifying installations” on page 48, ensuring that **Asset Repository** is selected on the Features page of the Modify Packages wizard.

Chapter 5. Installing WebSphere Business Modeler silently

You can install the WebSphere Business Modeler product package by running Installation Manager in silent installation mode. When you run Installation Manager in silent mode, the user interface is not available; instead, Installation Manager uses a response file to input the commands that are required to install the product package. You can also install Installation Manager silently using the Installation Manager installer. You can then use the installer to silently install product packages.

Running Installation Manager in silent mode enables you to use a batch process to install, update, modify and uninstall product packages through scripts.

Note that you must install Installation Manager before you can silently install the WebSphere Business Modeler package. Refer to “Working with IBM Installation Manager” on page 46 for details on installing Installation Manager.

There are two main tasks required for silent installation:

1. Create the response file.
2. Run Installation Manager in silent installation mode.

Installing and running Installation Manager in silent mode

Use the Installation Manager installer to install Installation Manager, then use Installation Manager to install product packages in silent installation mode from a command line.

Refer to the Installation Manager Web site for additional documentation on how to run it in silent mode. For example, silently installing from a repository that requires authentication (user ID and password).

The following table describes the arguments used with the silent installation command:

Argument	Description
-vm	Specifies the Java launcher. In silent mode, always use java.exe on Windows, and java on other platforms.
-nosplash	Specifies that the splash screen should be suppressed.

Argument	Description
<code>--launcher.suppressErrors</code>	Specifies that the JVM error dialog should be suppressed.
<code>-silent</code>	Specifies that the Installation Manager installer or Installation Manager should be run in silent mode.
<code>-input</code>	Specifies an XML response file as the input to Installation Manager installer or the Installation Manager. A response file contains commands that installer or Installation Manager runs.
<code>-log</code>	(Optional) Specifies a log file that records the result of the silent installation. The log file is an XML file.

Both the Installation Manager installer and the Installation Manager have an initialization or .ini file **silent-install.ini** that includes default values for the arguments in the table.

The Installation Manager installer is used to install the Installation Manager. Follow these steps to install the Installation Manager silently.

To install Installation Manager silently, unzip the installer and switch to the eclipse subdirectory, then use the following commands:

```
installc --launcher.ini silent-install.ini -log <log file path and name>
```

For example:

```
installc --launcher.ini silent-install.ini -log c:\mylogfile.xml
```

After Installation Manager is installed, you can use it to install other products. You can also use the Installation Manager installer to install the products.

To run Installation Manager in silent mode run the following command from the eclipse subdirectory in the directory where you installed the Installation Manager:

```
IBMIMc.exe --launcher.ini silent-install.ini -input <response file path and name>
-log <log file path and name>
```

For example:

```
IBMIMc.exe --launcher.ini silent-install.ini -input c:\mylog\responsefile.xml
-log c:\mylog\silent_install_log.xml
```

If you want to silently install products using the Installation Manager installer, from the eclipse directory in the directory where you installed the Installation Manager, enter the following command:

```
IBMIMc.exe --launcher.ini silent-install.ini -input <response file path and name>
-log <log file path and name>
```

For example:

```
IBMIMc --launcher.ini silent-install.ini -input c:\mylog\responsefile.xml
-log c:\mylog\silent_install_log.xml
```

When the Installation Manager installer, or Installation Manager runs in silent installation mode; it reads the response file and writes a log file to the directory you specified. While you must have a response file when running in silent installation mode, log files are optional. The result of this execution should be a status of 0 on success and non-zero number on failure.

Searching for and silently installing all available products

You can silently search for and install updates for all available products.

To search for and silently install all available products:

1. On a command line, change to the eclipse subdirectory in the directory where you installed Installation Manager.
2. Enter and run the following command, substituting your own locations for the response file and, optionally, the log file:

```
IBMIMc.exe --launcher.ini silent-install.ini -installAll
-log <log file path and name>
```

All available products known to Installation Manager are installed.

Silently installing updates to all currently installed products

You can silently search for and install updates for all currently installed products.

To search for and silently install updates for all available products:

1. On a command line, change to the eclipse subdirectory in the directory where you installed Installation Manager.
2. Enter and run the following command, substituting your own locations for the response file and, optionally, the log file:

```
IBMIMc.exe --launcher.ini silent-install.ini -updateAll
-log <log file path and name>
```

All available product updates known to Installation Manager are installed.

Creating a response file with Installation Manager

You can create a response file by recording your actions as you install the WebSphere Business Modeler product package using Installation Manager, or

when you install the Installation Manager installer. When you record a response file, all of the selections that you make in the Installation Manager GUI are stored in an XML file. When you run Installation Manager in silent mode, Installation Manager uses the XML response file to locate the repository that contains the package, select the features to install, and so on.

To record a response file for installation (or uninstallation):

1. On a command line, change to the eclipse subdirectory in the directory where you installed Installation Manager. For example, **cd C:\Program Files\IBM\Installation Manager\eclipse**
2. On a command line, type the following command to start the Installation Manager, substituting your own file name and location for the response file and (optionally) the log file:

```
IBMIM -record <response file path and name> -log <log file path and name>
```

For example:

```
IBMIM.exe -record c:\mylog\responsefile.xml -log c:\mylog\record_log.xml
```

Note: Ensure the file paths you enter exist; Installation Manager will not create directories for the response file and the log file.

3. Follow the on-screen instructions in the Install Packages wizard to make your installation choices. For details, see “Installing WebSphere Business Modeler using the IBM Installation Manager graphical interface” on page 43.
4. Click **Finish**, then close Installation Manager.

An XML response file is created and resides in the location specified in the command.

Recording a response file with the Installation Manager installer

You can use the Installation Manager installer to record the installation of Installation Manager and other products.

To record the installation of Installation Manager, follow these steps:

1. Unzip the Installation Manager, then go to the `InstallerImage_platform` directory.
2. To start recording, enter `install -record <response file path and name> -skipInstall <agentDataLocation> -vmargs -Dcom.ibm.cic.agent.hidden=false`

Recording a product install with the installer:

To start recording a product install with the Installation Manager installer, follow these steps:

1. Go to the `InstallerImage_platform` directory in location where you unzipped the Installation Manager.
2. Open the `install.ini` file by removing the following lines: `-input` and `@osgi.install.area/install.xml`
3. Enter the following command: `install -record <response file path and name> -skipInstall <agentDataLocation>`, for example: `install -record`
4. Start the Installation Manager and complete the Install Packages wizard.

Response file commands

If you want to use the silent installation capabilities of Installation Manager, you need to create a response file that contains all of the commands that Installation Manager must run. The recommended way to do this is to create a response file by recording your actions as you install the WebSphere Business Modeler package. However, you can create or edit a response file manually.

There are two categories of commands for the response file:

- **Preference commands** are used to set preferences that are found in Installation Manager under **File** → **Preferences**, such as repository location information.
- **Silent installation commands** are used to emulate the Install Packages wizard in Installation Manager.

Silent installation preference commands

While you typically specify preferences using the Preferences window, you can also specify preferences (identified as keys) in a response file for use during a silent installation.

Note: You can specify more than one preference in a response file.

When you define preferences in a response file, your XML code will look similar to the following example:

```
<preference
  name = "the key of the preference"
  value = "the value of the preference to be set">
</preference>
```

Use the following table to identify keys and their associated values for silent installation preferences:

Key	Value	Notes
com.ibm.cic.common.core.preferences.logLocation	Specifies the location of Installation Manager log file.	Important: This key is optional and is designed for testing and debugging. If you do not specify a location for the log file, both silent installation and the UI version of Installation Manager will use the same location.
com.ibm.cic.license.policy.location	Specifies a URL that defines where the remote license policy file resides.	
com.ibm.cic.common.core.preferences.http.proxyEnabled	True or False	False is the default value.
com.ibm.cic.common.core.preferences.http.proxyHost	Host name or IP address	
com.ibm.cic.common.core.preferences.http.proxyPort	Port number	
com.ibm.cic.common.core.preferences.http.proxyUseSocks	True or False	False is the default value.
com.ibm.cic.common.core.preferences.SOCKS.proxyHost	Host name or IP address	
com.ibm.cic.common.core.preferences.SOCKS.proxyPort	Port number	
com.ibm.cic.common.core.preferences.ftp.proxyEnabled	True or False	False is the default value.
com.ibm.cic.common.core.preferences.ftp.proxyHost	Host name or IP address	
com.ibm.cic.common.core.preferences.ftp.proxyPort	Port number	

Key	Value	Notes
com.ibm.cic.common.core.preferences.eclipseCache	c:\IBM\ common /opt/IBM/ common Note: The paths above are default values for this preference; typically, install packages provide their own values for this preference.	You cannot change this location if you have already installed a package.
com.ibm.cic.agent.core.pref.offering.service.repositories. areUsed	True or False	Change this preference to 'False' to disable it. When 'True', all linked repositories will be searched when products are installed or updated.
com.ibm.cic.common.core.preferences. preserveDownloadedArtifacts	True or False	Change this preference to 'False' to disable it. When true, the files required to roll the package back to a previous version are stored on your system. When false, these files are not stored. If you do not store these files, you must connect to your original repository or media to roll back.

Reference: Sample response file

You can use an XML-based response file to specify predefined information such as silent installation preferences, repository locations, installation profiles,

and so on. Response files are beneficial for teams and companies that want to install installation packages silently and to standardize the locations and preferences for installation packages.

Sample response file

```
<agent-input >

<!-- add preferences -->
<preference name="com.ibm.cic.common.core.preferences. http.proxyEnabled"
value="c:/temp"/>

<!-- create the profile if it doesn't exist yet -->
<profile id="my_profile" installLocation="c:/temp/my_profile"></profile>

<server>
<repository location=
"http://a.site.com/local/products/sample/20060615_1542/repository/"></repository>
</server>

<install>
  <offering profile= "my_profile" features= "core" id= "ies"
version= "3.2.0.20060615">
    </offering>
</install>

</agent-input>
```

Silent installation commands

You can use this reference table to learn more about response file commands for use during a silent installation.

Response file commands	Description
<p>Profile</p> <pre> <profile id="the profile (package group) id" installLocation="the install location of the profile"> <data key="key1" value="value1"/> <data key="key2" value="value2"/> </profile> </pre>	<p>Use this command to create a package group (or installation location). If the specified package group already exists, then the command has no effect. Currently, when creating the profile, the silent installation will also create two installation contexts; one for Eclipse and one for native. A profile is an installation location.</p> <p>You can use the <data> element for setting profile properties.</p> <p>The following list contains the keys currently supported keys and related values:</p> <ul style="list-style-type: none"> • The eclipseLocation key specifies an existing Eclipse location value, such as c:\myeclipse\eclipse. • The cic.selector.nl key specifies the Natural Language (NL) locale selections, such as zh, ja, and en. <p>Note: Separate multiple NL values with commas.</p> <p>The following list contains the currently supported language codes:</p> <ul style="list-style-type: none"> • English (en) • French (fr) • Italian (it) • Simplified Chinese (zh) • Russian (ru) • Traditional Chinese (Taiwan) (zh_TW) • Traditional Chinese (Hong Kong) (zh_HK) • German (de) • Japanese (ja) • Polish (pl) • Spanish (es) • Czech (cs) • Hungarian (hu) • Korean (ko) • Portuguese (pt_BR)

Response file commands	Description
Repositories <pre> <server> <repository location="http://example/ repository/"> <repository location="file:C:/ repository/"> <!--add more repositories below--> <...> </server> </pre>	<p>Use this command to specify the repositories used during a silent installation. Use a URL or UNC path to specify remote repositories; use directory paths to specify local repositories.</p>
Install <pre> <install> <offering profile= "profile id" features= "feature ids" id= "offering id" version= "offering version"></offering> <!--add more offerings below> <...> </install> </pre>	<p>Use this command to specify the installation packages that will be installed.</p> <p>The profile ID must match an existing profile or a profile created by the set profile command.</p> <p>Feature IDs can be optionally specified by a comma-delimited list, such as "feature1, feature2" and so on. If no feature IDs are specified, all the default features in the specified offering will be installed.</p> <p>The version number is not required. If no version is specified, the Installation Manager will install the most recent product with the specified id and any available updates and fixes.</p> <p>Note: Required features will be included for installation, even if they are not explicitly specified in the comma-delimited list.</p>
<pre> <install modify="true"> or <uninstall modify="true"> (optional attribute) <uninstall modify="true"> <offering profile="profileID" id="Id" version="Version" features="-"/> </uninstall> </pre>	<p>Use the <install modify="true"> attribute on install and uninstall commands to indicate that you want to modify an existing install. If the attribute is not set to true, the value defaults to false. If the intent of the modify operation is only to install additional language packs, then a hyphen "-" should be used in the offering feature id list to indicate no new features are being added.</p> <p>Important: You must specify "modify=true" and a hyphen "-" feature list as specified in the example; otherwise, the install command will install the offering's default features and the uninstall command will remove all the features.</p>

Response file commands	Description
Uninstall <pre><uninstall> <offering profile= "profile id" features= "feature ids" id= "offering id" version= "offering version"></offering> <!--add more offerings below> <...> </uninstall></pre>	<p>Use this command to specify the packages that will be uninstalled.</p> <p>The profile ID must match an existing profile or a profile specified in a profile command. Further, if there are no feature IDs specified, all the features in the specified offering will be uninstalled; if there are no offering IDs specified, all the installed offerings in the specified profile will be uninstalled.</p>
Rollback <pre><rollback> <offering profile= "profile id" id= "offering id" version= "offering version"> </offering> <!--add more offerings below <...> </rollback></pre>	<p>Use this command to roll back to the specified offerings from the version currently installed on the specified profile. You cannot specify features in a roll back command.</p>
InstallAll <pre><installALL/></pre> <p>Note: This command is equivalent to using <code>-silent -installAll</code>.</p> <p>.</p>	<p>Use this command to silently search for and install all available packages.</p>
UpdateAll <pre><updateALL/></pre> <p>Note: This command is equivalent to using <code>-silent -updateAll</code>.</p> <p>.</p>	<p>Use this command to silently search for and update all available packages.</p>

Response file commands	Description
License <code><license policyFile="policy file location"/></code> For example: <code><license policyFile="c:\mylicense.opt"/></code>	<p>Use this command to generate a response file containing a license command by starting the license wizard after starting Installation Manager in record mode.</p> <p>During record mode, if you set flex options through the license management wizard, the options you set will be recorded in a license policy file named "license.opt" in the same directory as the generated response file; the response file will contain a license command that references the policy file.</p>
Wizard <code><launcher -mode wizard -input < response file ></code>	<p>Use this command to start Installation Manager in UI mode. The UI mode starts Installation Manager in either the install wizard or the uninstall wizard. However, in this case, the response file can only contain preference commands and install commands or preference command and uninstall commands; you can not mix install and uninstall commands in the same response file when you run Installation Manager in UI mode.</p>

Silent install log files

You can use silent install log files to examine the results of a silent installation session.

The silent installation functionality creates an XML-based log file that records the result of the silent install execution (as long as a log file path is specified using **-log <your log file path>.xml**). If your silent installation session is successful, the log file will contain just the root element of **<result> </result>**. However, if errors occur during the installation, the silent install log file will contain error elements with messages such as:

```
<result>
  <error> Cannot find profile: profile id</error>
  <error> some other errors</error>
</result>
```

For detailed analysis, you can look at the logs generated in the Installation Manager data area specified in the **-log** parameter. By using a preference command, you can optionally set the data area to your preferred location, as shown in the response file topic.

Chapter 6. IBM Installation Manager

IBM Installation Manager is a program that helps you install the WebSphere Business Modeler packages on your workstation. It also helps you update, modify, and uninstall this and other packages that you install. A package can be a product, a group of components, or a single component that is designed to be installed by the Installation Manager.

IBM Installation Manager offers a number of time-saving features. It keeps track of what you are about to install, software components that you have already installed, and components that are available for you to install. It searches for updates so you know that you are installing the latest version of a WebSphere Business Modeler product package. Installation Manager also provides tools for managing licenses for the product packages that it installs. It provides tools for updating and modifying packages. You can also use Installation Manager to uninstall product packages.

IBM Installation Manager comprises six wizards that make it easy to maintain your product packages through their lifecycles:

- The Install Packages wizard walks you through the installation process. You can install a product package by simply accepting the defaults, or you can modify the default settings to create a custom installation. Before you install a product package, you are provided with a complete summary of the selections that you have made throughout the wizard. With the wizard you can install one or more product packages at the same time.
- The Update Packages wizard searches for available updates to product packages that you have installed. An update might be a released fix, a new feature, or a new version of the product. Details of the contents of the update are provided in the wizard. You can choose whether to apply an update.
- With the Modify Packages wizard, you can modify specific elements of a package that you have already installed. During your initial installation of the product package, you select the features you want to install. If you find later that you require other features, you can use the Modify Packages wizard to add them to your product package installation. You can also remove features, and add or remove languages.
- The Manage Licenses wizard helps you to set up the licenses for your packages. Use this wizard to change your trial license to a full license, to set up your servers for floating licenses, and to select which type of license to use for each package.

- With the Rollback Packages wizard you can revert to a previously installed version of an eligible package.
- The Uninstall Packages wizard helps you to remove a product package from your computer. You can uninstall more than one package at a time.

Installation repositories

IBM Installation Manager retrieves product packages from specified repository locations.

If the WebSphere Business Modeler launchpad is used to start Installation Manager, the repository information is passed to Installation Manager. If the Installation Manager is started directly, for example from the **Start** menu, you must specify the installation repository that contains the product packages that you want to install. See “Setting repository preferences in Installation Manager” for instructions on how to do this.

Some organizations bundle and host their own product packages on their intranet. For information about this type of installation scenario, see “Installing from a repository on an HTTP server” on page 14. Your system administrators will need to provide you with the correct URL.

By default, IBM Installation Manager uses an embedded URL in each software development product to connect to a repository server over the Internet. Installation Manager then searches for the product packages as well as new features.

Setting repository preferences in Installation Manager

When you start the installation of Installation Manager from the WebSphere Business Modeler launchpad program, the location of the repository that contains the product package you are installing is automatically defined in IBM Installation Manager when it starts. However, if you start Installation Manager directly (for example, installing Installation Manager from a repository located on a Web server) then you must specify the repository preference (the URL for the directory that contains the product package) in Installation Manager before you can install the product package. Specify these repository locations on the Repositories page of the Preferences window.

By default, Installation Manager uses an embedded URL in each software development product to connect to a repository server through the Internet and search for installable packages and new features. Your organization may require you to redirect the repository to use intranet sites.

Note: Before starting the installation process, be sure to obtain the installation package repository URL or directory from your administrator.

To add, edit, or remove a repository location in Installation Manager:

1. Start Installation Manager.
2. On the Start page of Installation Manager, click **File** → **Preferences**, and then click **Repositories**. The Repositories page opens, showing any available repositories, their locations, and whether they are accessible.
3. On the Repositories page, click **Add Repository**.
4. In the Add repository window, type the URL or browse to the repository location and set a file path. If you are installing WebSphere Business Modeler for the first time, browse to the directory containing the downloaded image and select the diskTag.inf file. If you are upgrading from Version 6.1.1 using a downloaded image, browse to the directory containing the downloaded image and select the repository.config file.
5. Click **OK**. If you provided an HTTPS or restricted FTP repository location, then you will be prompted to enter a user ID and password. The new or changed repository location is listed. If the repository is not accessible, a red x is displayed in the **Accessible** column.
6. Click **OK** to exit.

Note: For Installation Manager to search the default repository locations for the installed packages, ensure the preference **Search service repositories during installation and updates** on the Repositories preference page is selected. This preference is selected by default.

Installing WebSphere Business Modeler using the IBM Installation Manager graphical interface

The following steps describe installing the WebSphere Business Modeler package with the Installation Manager wizard.

1. From the Installation Manager Start page, click **Install Packages**.

Note: If a newer version of Installation Manager is found, you are prompted to confirm that you want to install it before you can continue. Click **OK** to proceed. Installation Manager automatically installs the new version, stops, restarts, and resumes.

2. The Install page of the Install Packages wizard lists all the packages found in the repositories that Installation Manager searched. If two versions of a package are discovered, only the most recent, or recommended, version of the package is displayed.
 - To display all versions of any package found by Installation Manager, click **Show all versions**.
 - To return to the display of only the recommended packages, click **Show only recommended**.

3. Click the WebSphere Business Modeler package to display its description in the **Details** pane.
4. To search for updates to the WebSphere Business Modeler package, click **Check for Other Versions and Extensions**.

Note: For Installation Manager to search the predefined IBM update repository locations for the installed packages, the preference **Search service repositories during installation and updates** on the Repositories preference page must be selected. This preference is selected by default.

Internet access is also required.

Installation Manager searches for updates at the predefined IBM update repository for the product package. It also searches any repository locations that you have set. A progress indicator shows the search is taking place. You can install updates at the same time that you install the base product package.

5. If updates for the WebSphere Business Modeler package are found, then they will be displayed in the **Installation Packages** list on the Install Packages page below their corresponding product. Only recommended updates are displayed by default.
 - To view all updates found for the available packages, click **Show all versions**.
 - To display a package description under **Details**, click on the package name. If additional information about the package is available, such as a readme file or release notes, a **More info** link is included at the end of the description text.

Click the link to display the additional information in a browser. To fully understand the package you are installing, review all information before installation.

6. Select the WebSphere Business Modeler package and any updates to the package that you want to install. Updates that have dependencies are automatically selected and cleared together. Click **Next** to continue.

Note: If you install multiple packages at the same time, then all the packages will be installed into the same package group.

7. On the Licenses page, read the license agreement for the selected package.

If you selected more than one package to install, there might be a license agreement for each package. On the left side of the **License** page, click each package version to display its license agreement. The package versions that you selected to install (for example, the base package and an update) are listed under the package name.

- a. If you agree to the terms of all of the license agreements, click **I accept the terms of the license agreements**.
 - b. Click **Next** to continue.
8. On the Location page, type the path for the *shared resources directory* in the **Shared Resources Directory** field, or accept the default path. The shared resources directory contains resources that can be shared by one or more package groups. Click **Next** to continue.

Important: If you are installing on Windows Vista, then to enable users who do not have Administrator privileges to work with WebSphere Business Modeler, do not choose a directory inside the Program Files directory (C:\Program Files\).

The default path is:

- For Windows Vista: C:\Program Files_IBM\SDP70Shared
- For other Windows platforms: C:\Program Files\IBM\SDP70Shared

Important: You can specify the shared resources directory only the first time that you install a package. Use your largest disk for this to help ensure adequate space for the shared resources of future packages. You cannot change the directory location unless you uninstall all packages.

Note: Ensure that your installation path does not contain parenthesis.

9. On the next Locations page, type a path for the *installation directory* or accept the default path.
10. On the Location page, create a *package group* to install the WebSphere Business Modeler package into, or use the existing package group. A package group represents a directory in which packages share resources with other packages in the same group. To create a new package group:
 - a. Click **Create a new package group**.
 - b. Type the path for the installation directory for the package group. The name for the package group is created automatically.

Important: If you are performing an installation on Windows Vista, to enable users who do not have Administrator privileges to work with WebSphere Business Modeler, do not choose a directory inside the Program Files directory (C:\Program Files\).

The default path is:

- For Windows Vista: C:\Program Files_IBM\WBModeler61
 - For other Windows platforms: C:\Program Files\IBM\WBModeler61
- c. Click **Next** to continue.

11. On the Features page under **Languages**, select the languages for the package group. The corresponding national language translations for the user interface and documentation for the WebSphere Business Modeler package will be installed. Note that your choices apply to all packages installed under this package group.
12. On the next Features page, select the package features that you want to install.
 - a. Optional: To see the dependency relationships between features, select **Show Dependencies**.
 - b. Optional: Click a feature to view its brief description under **Details**.
 - c. Select or clear features in the packages. Installation Manager will automatically enforce any dependencies with other features and display updated download size and disk space requirements for the installation.
 - d. When you are finished selecting features, click **Next** to continue.
13. On the Summary page, review your choices before installing the WebSphere Business Modeler package. If you want to change the choices that you made on previous pages, click **Back** and make your changes. When you are satisfied with your installation choices, click **Install** to install the package. A progress indicator shows the percentage of the installation completed.
14. When the installation process is complete, a message confirms the success of the process.
 - a. Click **View log file** to open the installation log file for the current session in a new window. You must close the Installation Log window to continue.
 - b. In the Install Package wizard, select whether you want WebSphere Business Modeler to start when you exit.
 - c. Click **Finish** to launch the selected package.

Working with IBM Installation Manager

This section deals with some common tasks relating to IBM Installation Manager. For more information, see the Installation Manager online help.

Installing Installation Manager

If you start the installation of your product from the launchpad program, then the installation of IBM Installation Manager is performed automatically if it is not already installed on your workstation. (For more information on this process, refer to “Installing WebSphere Business Modeler from the product launchpad program” on page 24.) In other cases, you must manually start the installation of Installation Manager.

To start the installation of Installation Manager manually:

1. Run **install.exe** from the IM_win32 folder on the installation disk or image.
2. Click **Next** on the Install Packages page.
3. Review the license agreement on the License Agreement page and select **I accept the terms in the license agreement** to accept. Click **Next**.
4. Click the **Browse** button on the Destination Folder page to change the installation location if required. Click **Next**.
5. Click **Install** on the Summary page. When the installation process is complete, a message confirms the success of the process.
6. Click **Finish**. IBM Installation Manager opens.

Starting Installation Manager

If you start the installation of your product from the launchpad program, then the installation of IBM Installation Manager is performed automatically if it is not already installed on your workstation. This automatic installation starts Installation Manager with a configured repository preference and selected WebSphere Business Modeler packages. If you start Installation Manager directly, then you must set a repository preference and choose product packages manually. For more information, see Chapter 2, “Planning to install”, on page 9.

To start Installation Manager manually:

1. Open the **Start** menu from the **Taskbar**.
2. Select **All Programs** → **IBM Installation Manager** → **IBM Installation Manager**.

Uninstalling Installation Manager

To uninstall Installation Manager:

1. Open the **Start** menu from the **Taskbar**.
2. Select **All Programs** → **IBM Installation Manager** → **Uninstall IBM Installation Manager**.
3. Click **Next** on the Uninstall page. The Installation Manager is selected for uninstallation.
4. Click **Uninstall** in the Summary page.

Note: You can also uninstall Installation Manager by using the Control Panel. Click **Start** → **Settings** → **Control Panel**, and then double-click **Add or Remove Programs**. Select the entry for IBM Installation Manager and click **Remove**.

Silently installing and uninstalling Installation Manager

IBM Installation Manager can be silently installed and uninstalled.

Silently installing Installation Manager

To install Installation Manager silently, unzip the installer and switch to the `InstallerImage_platform` subdirectory, then use the following commands:

```
installc --launcher.ini silent-install.ini -log <log file path and name>
```

For example:

```
installc --launcher.ini silent-install.ini -log c:\mylogfile.xml
```

After installation, you can use Installation Manager or the Installation Manager installer to silently install packages.

Silently uninstalling Installation Manager

To silently uninstall Installation Manager:

1. From a command line, go to the uninstall directory for the Installation Manager. By default, this is **C:\Documents and Settings\All Users\Application Data\IBM\Installation Manager\uninstall**.
2. Enter the following command: `uninstallc.exe --launcher.ini silent-uninstall.ini`

Modifying installations

The Modify Packages wizard in the IBM Installation Manager enables you to change the language and feature selections of an installed product package.

By default, Internet access is required unless the repository preferences points to a local update site. See the Installation Manager help for more information.

Note: Close all programs that were installed using Installation Manager before modifying.

To modify an installed product package:

1. From the Start page of the Installation Manager, click the **Modify Packages** icon.
2. In the Modify Packages wizard, select the installation location for the WebSphere Business Modeler product package and click **Next**.
3. On the Modify page, under Languages, select the languages for the package group, then click **Next**. The corresponding national language translations for the user interface and documentation for the packages will be installed. Note that your choices apply to all packages installed under this package group.
4. On the Features page, select the package features that you want to install or remove.

- a. To learn more about a feature, click the feature and review the brief description under **Details**.
 - b. If you want to see the dependency relationships between features, select **Show Dependencies**. When you click a feature, any features that depend on it and any features that are its dependents are shown in the Dependencies window. As you select or exclude features in the packages, Installation Manager will automatically enforce any dependencies with other features and display updated download size and disk space requirements for the installation.
5. When you are finished selecting features, click **Next**.
 6. On the Summary page, review your choices before modifying the installation package, and then click **Modify**.
 7. Optional: When the modification process completes, click **View Log File** to see the complete log.

Updating WebSphere Business Modeler

You can install updates for packages that were installed with IBM Installation Manager.

By default, Internet access is required unless your repository preferences points to your local update site.

Each installed package has the location embedded for its default IBM update repository. For Installation Manager to search the IBM update repository locations for the installed packages, the preference **Search service repositories during installation and updates** on the Repositories preference page must be selected. This preference is selected by default.

See the Installation Manager help for more information.

Note: Close all programs that were installed using Installation Manager before updating.

To find and install product package updates:

1. From the Start page of the Installation Manager, click **Update Packages**.
2. If IBM Installation Manager is not detected on your system or if an older version is already installed, then you must continue with the installation of the latest release. Follow the on-screen instructions in the wizard to complete the installation of IBM Installation Manager
3. In the Update Packages wizard, select the location of the package group where the WebSphere Business Modeler product package you want to update is installed or select the **Update All** check box, and then click **Next**. Installation Manager searches for updates in its repositories and the

predefined update sites for WebSphere Business Modeler. A progress indicator shows the search is taking place.

4. If updates for a package are found, then they are displayed in the **Updates** list on the Update Packages page below their corresponding package. Only recommended updates are displayed by default. Click **Show all** to display all updates found for the available packages.
 - a. To learn more about an update, click the update and review its description under **Details**.
 - b. If additional information about the update is available, a **More info** link will be included at the end of the description text. Click the link to display the information in a browser. Review this information before installing the update.
5. Select the updates that you want to install or click **Select Recommended** to restore the default selections. Updates that have a dependency relationship are automatically selected and cleared together.
6. Click **Next** to continue.
7. On the Licenses page, read the license agreements for the selected updates. On the left side of the **License** page, the list of licenses for the updates you selected is displayed; click each item to display the license agreement text.
 - a. If you agree to the terms of all the license agreements, click **I accept the terms of the license agreements**.
 - b. Click **Next** to continue.
8. On the Summary page, review your choices before installing the updates.
 - a. If you want to change the choices you made on previous pages, click **Back**, and make your changes.
 - b. When you are satisfied, click **Update** to download and install the updates. A progress indicator shows the percentage of the installation completed.

Note: During the update process, Installation Manager might prompt you for the location of the repository for the base version of the package. If you installed the product from a DVD or other media, they must be available when you use the update feature.

9. Optional: When the update process completes, a message that confirms the success of the process is displayed near the top of the page. Click **View log file** to open the log file for the current session in a new window. You must close the Installation Log window to continue.
10. Click **Finish** to close the wizard.

Uninstalling WebSphere Business Modeler

The Uninstall Packages option in the Installation Manager enables you to uninstall packages from a single installation location. You can also uninstall all the installed packages from every installation location.

To uninstall the packages, you must log in to the system using the same user account that you used to install the product packages.

To uninstall the packages:

1. Close the programs that you installed using Installation Manager.
2. On the Start page click **Uninstall Packages**.
3. In the Uninstall Packages page, select the WebSphere Business Modeler product package that you want to uninstall. Click **Next**.
4. In the Summary page, review the list of packages that will be uninstalled and then click **Uninstall**. The Complete page is displayed after the uninstallation finishes.
5. Click **Finish** to exit the wizard.

After uninstalling WebSphere Business Modeler, the package group directory where WebSphere Business Modeler was installed might persist. This is expected behavior in cases where the WebSphere Business Modeler package group is shared with other products. However, in cases where WebSphere Business Modeler is installed into its own package group, this directory should be deleted.

If you want to reinstall WebSphere Business Modeler in its own package group using this same location, you should delete this directory first.

Do not delete this directory if you have installed products other than WebSphere Business Modeler in this package group directory.

Rolling back updates

Using the Roll back Packages wizard, you can remove an update to a package and revert to a previous version.

During the rollback process, Installation Manager must access files from the earlier version of the package. By default, these files are stored on your system when you install a package. If the files are not available on your system because you installed the package from a repository, you must include the location of the repository from which you installed the previous version of the product in your Installation Manager preferences (**File > Preferences > Repository**). If you installed the product from a DVD or other media, they must be available when you use the rollback feature.

Use the rollback feature if you have applied an update to a product package, and decide later that you want to remove the update and revert to the earlier version of the product. When you use the rollback feature, the Installation Manager uninstalls the updated resources, and reinstalls the resources from the previous version. You can only roll back one version level at a time.

See the help in the Installation Manager for more information on using the Rollback wizard.

To roll back an updated package, complete the following steps:

1. On the Start page, click **Roll back Packages** to start the Rollback wizard.
2. From the **Installation Packages** list, select the package that you want to roll back.
3. Complete the wizard according to the on-screen instructions.

Chapter 7. Configuring WebSphere Business Modeler

You might need to configure some IBM WebSphere Business Modeler settings to ensure that you can use all the product functions that you require. If you have installed a DB2 database, you might need to optimize its configuration to enhance your simulation and dynamic analysis performance.

Locale-based default settings

WebSphere Business Modeler comes with a set of locale-based defaults that determine field formatting, currency, and calendar options. These defaults are associated with the locale setting on your computer and apply to every workspace that you create. You can change these defaults for a single workspace. Or, if you are creating many workspaces, you can change the default settings that are associated with a particular locale.

For example, if the locale setting on your computer is Canadian French, then for each workspace that you create, the default currency will be Canadian Dollars. You can change this default setting for a particular workspace, for example, to change the default currency to the Euro or to U.S. Dollars. Once you have changed a default setting for a workspace, that setting is maintained for the workspace unless you modify it again.

There are several different types of default settings associated with a locale.

Field formatting

These settings affect the date and time display, default numbering and number formatting (such as which character separates decimals from whole numbers), and the method of alphanumeric sorting that WebSphere Business Modeler uses.

Calendar and time formatting

These settings include options for a 12-hour vs. 24-hour clock, start day of the week, and calendar compression. Calendar compression can apply when there are six rows of weeks in a single month. In some locales, the standard way to display the sixth week is to move its days to the top row. For example, December 2007 has six rows of weeks and, in compressed calendar format, the 30th and 31st days are displayed in the top row.

December		2007				
S	M	T	W	T	F	S
30	31					1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	[24]	25	26	27	28	29

8	:	0	:	0	A.M.
---	---	---	---	---	------

Time zone

This setting determines the default time zone of the workspace.

Currency

This setting determines the default unit of currency for the workspace.

Date and time entry field format

These settings determine the formatting of calendar interfaces, including the relative order of the month and year entry fields, and the relative order of the time value field and the a.m. or p.m. modifier field. For example, you can specify that, when entering a date using a calendar interface, the month field appears before the day year field, or vice versa.

Note: These settings can only be set at the product level and can not be modified for a single workspace. Any modifications to these default settings apply to all workspaces.

Setting locale preferences for workspaces

Each WebSphere Business Modeler workspace has a set of default preferences for time zone, currency, and number, date and time formats. These defaults are based on the locale setting on your computer. However, there are occasions when you might want to want to use the time zone, field format, currency, or calendar style of a different locale for a given workspace.

Once you change the default settings for a workspace, that setting will remain the default setting unless you modify it again.

- To modify the default setting for currency, complete the following steps:
 1. From the **Window** menu, select **Preferences**.
 2. Expand **Business Modeling**, and click **Currency Definition**.

3. Select the currency from the table.
 4. Click **OK** to apply your changes and close the **Currency Definition** window.
- To modify the default settings for time zone, field formatting, and calendar and time formatting:
 1. From the **Window** menu, select **Preferences**.
 2. Expand **Business Modeling**, and click **Locale**.
 3. Select the default time zone from the drop-down list.
 4. Select the default locale used to format fields from the drop-down list.
 5. To compress the calendar so that it wraps a sixth week to the top row, select the **Compress the calendar** check box.
 6. To use a 24-hour clock, select the **24 hour clock** check box. The default setting is a 12-hour clock that uses a.m. and p.m. to indicate morning and afternoon respectively.
 7. Set the first day of the week for the calendar. In some countries, the standard calendar starts each week on a Sunday. Other countries start their weeks on another day.
 8. Click **OK** to apply your changes and close the **Preferences** page.

These default settings will apply only to the current workspace. Any additional workspaces that you create will have the original local-based defaults.

You can change the settings back after you have set them for a workspace by setting the preferences to a different value or by clicking 'Restore Defaults' to go back to the defaults based on your system locale setting. You have to restart for the changes to take effect.

If you are creating many workspaces and you want to change the locale-based defaults for all of them, you can modify the local-based defaults at the WebSphere Business Modeler product level.

Setting locale preferences at the product level

If you are creating many workspaces and you want to change the defaults associated with a particular locale, you can change the default settings at the product level and all workspaces will share the defaults that you specify.

To change locale-based defaults for all your workspaces, you need to modify a file called `plugin.properties` found in the directory where you installed the shared files for WebSphere Business Modeler under `\plugins\com.ibm.btools.util_6.1.n.nnn`. For example, if you installed the shared files for version 6.1.0 in your Program Files directory, you will find it in a directory like `C:\Program Files\IBM\SDP70Shared\plugins\com.ibm.btools.util_6.1.0.110`.

This file contains the default settings associated with different locales.

- To modify the date/time entry field format, you need to add the locale to or remove the locale from the list of locales specified for a setting. For example, by default, the default setting for the Japanese locale is to have the A.M./P.M. modifiers precede the time on date/time input fields. This means that the Japanese locale “ja” is listed after the setting **AMPM_BEFORE_TIME**. To change the default setting that WebSphere Business Modeler uses for the Japanese locale, you can remove “ja” from the list of locales associated with the **AMPM_BEFORE_TIME** setting. Similarly, if you want to change the default for the United States locale to have the A.M./P.M. modifier precede the time in date/time entry fields, you can add the value “us” to the list of locales associated with this setting.
- You can also change the default currency associated with a particular locale for all workspaces by changing the currency code associated with a particular locale in this file. To do this, you need to change the current value associated with the country code to a new valid currency code. For example, to change the default currency that WebSphere Business Modeler associates with the Hungarian locale to the Euro, you need to change the currency code for the “HU” country code from “HUF” to “EUR”.
Important: Before updating the default currency for a locale in the plugin.properties file, ensure that the currency code that you enter is a valid currency code as defined in the Currency.xmi file found in the same directory as the plugin.properties file. Failure to have a valid code could impact the currency of all your workspaces.

The default settings specified in the plugin.properties file will apply to all workspaces.

To change the locale-based default settings for a single workspace, see “Setting locale preferences for workspaces” on page 54.

Changing the language used by WebSphere Business Modeler

By default, the language used in the WebSphere Business Modeler user interface and messages is determined by the locale setting on your computer. If you have installed additional languages in your WebSphere Business Modeler package, you can change the language used by WebSphere Business Modeler by changing your computer locale setting to a locale that uses the language you want to work in.

In bidirectional languages, changing the computer locale setting to the appropriate locale will change the language of the user interface text and messages. However, it will not affect the layout of the product interface. To enable full bidirectional language support, you must add a parameter and the five-digit language code either to the eclipse.ini file, or to the shortcut properties following the instructions below.

Important: For all other languages, the recommended method for changing the operating language for WebSphere Business Modeler is to change the system locale. However, if it is absolutely necessary to operate WebSphere Business Modeler in a language that is different from the language that is associated with the system locale setting, this method can be used to change the language used by WebSphere Business Modeler.

To change the language using the INI file, complete the following steps:

1. If WebSphere Business Modeler is running, close it.
2. Locate the eclipse.ini file located in the directory where you installed the files for WebSphere Business Modeler. For example, if you installed the files in your Program Files directory, you will find the eclipse.ini file in a directory like C:\Program Files\IBM\WBModeler61.
3. Make a backup of the file.
4. Open the file in a text editor.
5. Add a first line to the file with the **-nl** parameter and the five-digit language code for the language that you want to use. For example, to change to Arabic, you would add the following line as the first line of the file:
`-nl ar_AA`
6. Start WebSphere Business Modeler.

Alternatively, to change the language using the shortcut properties, complete the following steps:

1. If WebSphere Business Modeler is running, close it.
2. Right-click the **IBM WebSphere Business Modeler Advanced 6.1** icon on your desktop.
3. From the pop-up menu, select **Properties**. The properties window for the shortcut appears.
4. Append the **-nl** parameter and the language that you want to use to the end of the command in the **Target** field, for example:
`-nl ar_AA`
5. Click **OK**.
6. Start WebSphere Business Modeler
7. If you are also using the **-vmargs** parameter, you must put the **-nl** parameter and language before it in the **Target** field, for example:
`-nl ar_AA -vmargs -Xmx768m`

The **-vmargs** parameter and its arguments must be at the end of the command.

When you change the language of the product, the language of the help documentation (the information center) is changed as well.

Setting currency preferences

You can set the default currency and the exchange rates used by WebSphere Business Modeler.

The Currency Definition preferences page is where you set the default currency and the exchange rates between the default currency and all of the other currencies.

To set currency preferences, complete the following steps:

1. From the **Window** menu, select **Preferences**.
2. Select **Business Modeling** from the list and click the plus sign to open the available settings.
3. Click **Currency Definition**.
4. Select the default currency from the drop-down list. You will see the following fields:

Field	Description
Currency	ISO symbol for the currency (such as AUD for Australian dollar or EUR for euro).
Main unit	Main unit for the currency (such as dollar, franc, yen, rupee, or peso).
Fractional unit	Fractional unit for the currency (such as cents, centimes, sen, paisa, or centavos).
Exchange rate	Value of the currency in relation to the default currency.
Precision	Number of decimal places to use. For most countries, this is 2, but for some it is 0 or 3. Note: In dynamic analysis results and reports, up to 6 decimal places are shown for currency values, regardless of the Precision value displayed here. This is done to allow comparison of small values in cost and revenue results.

Note: If you select a currency that would not be used in the locale in which WebSphere Business Modeler is running or to which you have set the field formatting, the currency symbol is replaced with the appropriate ISO currency code in report currency fields. For example, if your locale is

Indonesian Indonesia and your currency is U.S. dollars, only the USD ISO code appears in report currency fields.

5. To set the rate of exchange for any currency, complete the following steps:
 - a. From the list of currencies, select the currency.
 - b. Click **Edit**.
 - c. In the Currency Dialog wizard, type the new rate of exchange into the Exchange rate field. The rate of exchange is relative to the default currency.
 - d. Click **Finish**.
 - e. Repeat steps a through d to set exchange rates for additional currencies, or click **OK** to apply your changes and close the preferences page.
6. Click **OK**.

Setting the location of the workspace

The workspace is where WebSphere Business Modeler stores project files and information such as preferences that you have customized. You can set the location of the workspace every time you start WebSphere Business Modeler or set a default location.

When you start WebSphere Business Modeler for the first time, a window appears. In this window, you set the location of the workspace that WebSphere Business Modeler uses for this session.

If you use different workspaces, WebSphere Business Modeler stores the location of the last three workspaces that you used. You can select one of these workspaces by picking it from the drop-down list.

You can also set a workspace location as the default for all sessions by enabling the check box.

Note: If you set the location as the default, changing the location of the workspace requires a few extra steps because the window no longer appears when you start WebSphere Business Modeler. For information, see “Changing the default workspace location” on page 60.

To set the location of the workspace, complete the following steps:

1. In the window that appears when you start WebSphere Business Modeler for the first time, specify the location of the workspace.
2. If you want WebSphere Business Modeler to use this location every time it starts, check **Use this as the default workspace, and do not show this dialog box again**.

3. Click **OK**.

Changing the default workspace location

You can change location of the default workspace or identify a different workspace location from the default location.

Once you have set the default workspace location, the window in which you set the workspace location no longer appears when you start WebSphere Business Modeler. You must make the window reappear before you can change the workspace location.

To cause the window to reappear, complete the following steps:

1. From the **Window** menu, select **Preferences**.
2. Select **General** from the list and click the plus sign to open the available settings.
3. Click **Startup and Shutdown** and click **Prompt for workspace on startup**.

Next time you start WebSphere Business Modeler you are asked to set the location of the workspace.

Changing report fonts

If you want to view or print reports in languages that include non-Latin characters or search for text in your PDF reports, you must change the default font that the report designer uses. If you want to customize your report fonts, you must add the fonts that you want to use to the report designer fonts directory.

If you want to use double-byte characters in your reports, you must add a Unicode font and set it as your default report designer font. If you want to search your PDF reports, you must add a PostScript font and set it as your default report designer font.

Important: If other people on your team want to import a report for which you have set up custom fonts or changed the default font, they must set up the same fonts in the **Installed Fonts** list and **Default Font** field, if applicable, to generate and print reports that contain those fonts.

To change your report fonts, complete the following steps:

1. In the **Window** menu, click **Preferences**.
2. In the navigation, expand **Business Modeling**, expand **Report Designer**, and click **Fonts**.

3. If you want to add fonts to the list of available report fonts, complete the following steps:
 - a. Click **Add**. The Fonts Folder window opens.
 - b. Browse to the folder on your computer where the fonts that you want to make available are located. For example the path for the Windows fonts folder is C:\WINDOWS\Fonts.

Tip: To limit the number of fonts displayed in the **Available Fonts** list, copy the fonts that you want to make available to a new folder on your system.

- c. Select the folder, and click **OK**. The fonts in the folder are displayed in the **Available Fonts** list.

You can remove fonts from the **Available Fonts** list by clicking **Remove**.

4. Add the font or fonts that you want to use in reports to the report designer fonts directory:
 - a. From the **Available Fonts** list, select the font or fonts that you want to add.
 - b. Click the arrow to move the font or fonts into the **Installed Fonts** list. The report designer can now use these fonts in custom reports, and you can set any installed font as your default report designer font.
5. If you want to replace the default report font with another font, complete the following steps:
 - a. From the **Installed Fonts** list, select the font that you want to make the default report font.
 - b. Click the arrow to move the font into the **Default Font** field. The previous default font moves into the **Installed Fonts** list.
 - c. If you are changing the default report font to a Unicode font, for example, if you are using double-byte characters in your reports, move the Lucida Sans font to the **Available Fonts** list. If you do not do this step, double-byte characters might not work properly in your reports.
6. If you want to reset the default report font and the available fonts to the fonts that come with IBM WebSphere Business Modeler, click **Restore Defaults**. The **Available Fonts** list displays only those fonts that come with WebSphere Business Modeler, and Lucida Sans is selected as the default font.
7. Click **OK** to save your changes and close the Preferences window, or click **Apply** to save your changes and keep the Preferences window open.

Setting backup preferences

You can set whether WebSphere Business Modeler creates a backup of every project when it starts. You can also configure how many backup copies it creates and where it stores them.

WebSphere Business Modeler can create a backup copy of every project when it starts. These backups enable you to restore a project from the backup copy if something happens and WebSphere Business Modeler becomes unable to load or work with a project or entire workspace. Note that you will lose all of changes you made to a project during a WebSphere Business Modeler session if you restore the project from the most recent backup copy. For this reason, the backup is not a complete replacement for frequently saving your work or committing changes to a project versioning repository.

By default, WebSphere Business Modeler creates backups. You can disable the creation of the backups to improve startup performance. The default number of backed up projects is three copies. You can reduce this number if you have concerns about disk space or you can increase the number of copies. You can also specify where WebSphere Business Modeler stores the backup copies.

To set the backup preferences, complete the following steps:

1. From the **Window** menu, select **Preferences**.
2. Select **Business Modeling** from the list and click the plus sign to open the available settings.
3. Click **Project Backups**. The Project Backups page opens.
4. To enable or disable creating backups of projects, select or deselect the **Enable backup** check box.
5. Specify the maximum number of backup files per project using the **Number of backups to save per project** field. To increase the number, click the Up arrow and to decrease the number, click the Down arrow.
6. Specify where WebSphere Business Modeler saves the backup files using the **Backup location** field.
7. Click **OK** to apply your changes and close the preferences pages.

Restoring projects from backup

If backups are enabled, you can restore a project from a backup. This action restores the project to what it was when you last started if you selected the most recent backup copy or to an earlier state if you select a different backup copy.

Each backup of a project consists of a ZIP file. The naming convention for the backup files is *project_name_archivenumber.ZIP*. The default location for the backup files is the *workspace\metadata\plugins\com.ibm.btools.model* folder

where *workspace* is the location of the workspace that you are currently using. You can find the current location of the backup files by consulting the **Backup location** field in the Backup Settings page of the preferences. This is the field you use to customize where WebSphere Business Modeler stores the backup files. The *number* is the timestamp of when WebSphere Business Modeler created the file.

If the project you want to restore contains non-ASCII (American Standard Code for Information Interchange) characters (that is, character not found in standard English), you must use the restore-project command line utility. For information on using the utility, see “Restoring projects using the restore-project utility”. If your project contains only ASCII characters, you can use the restore-project utility or you can use the procedure in “Restoring English language projects” on page 64 to restore the project. If you are unsure about whether the project contains ASCII characters, use the restore-project utility.

Restoring projects using the restore-project utility

If the project you want to restore contains non-ASCII (American Standard Code for Information Interchange) characters (that is, character not found in standard English), you must use the project-restore command line utility. If your project contains only ASCII characters, you can use the project-restore utility or you can use the procedure in “Restoring English language projects” on page 64 to restore the project.

To restore a project from a backup file using the restore-project command line utility, complete the following steps:

1. Close WebSphere Business Modeler.
2. Open a command prompt and navigate to where you installed WebSphere Business Modeler. For example, if you installed WebSphere Business Modeler into the default directory for Windows XP, type: `cd C:\Program Files\IBM\WBModeler61` In the WebSphere Business Modeler root there is a `restore_project_utility` folder.
3. Type the following command: `cd restore_project_utility`
4. Type the following command: `restore-project -w "workspace" [-p "projectname" | -b "backupfile"]`

Where *workspace* is the path and folder name of the workspace that you are restoring the project into, and *projectname* is the name of the project you want restore or *backupfile* is the path and name of the backup file that you want to use to do the restoration. You must specify a *projectname* or a *backupfile* but not both. For example, if you want to restore the ABC Project using its latest backup file, you would type something like the following command: `restore-project -w "C:\Documents and Settings\jsmith\My Documents" -p "ABC Project"`

Note: The *projectname* variable is case-sensitive. If you do not exactly match the name of the project, WebSphere Business Modeler will not be able to find the ZIP file for the project.

For example, if you want to restore a project using a specific backup file, you would type something like the following command: `restore-project -w "C:\Documents and Settings\jsmith\My Documents" -b "C:\Documents and Settings\jsmith\My Documents\.metadata\plugins\com.ibm.btools.model\ABC Project_archive1170090411453.zip"`

5. Press Enter. A confirmation message displays.
6. To restore the project, type Y and then press Enter. To exit the `restore-project` command without restoring the project, press Enter.
7. Restart WebSphere Business Modeler.

The Project Tree view displays the project that you restored. The contents of the project reflect what the project contained when WebSphere Business Modeler saved the backup file.

Restoring English language projects

If the project you want to restore contains only ASCII characters, you can unzip the backup file into your workspace to restore the project. For this reason, perform this procedure only on English language projects that only have ASCII characters. Otherwise, use the `restore-project` command line utility as described in “Restoring projects using the `restore-project` utility” on page 63.

To restore a project from a backup file by unzipping the file into the workspace, complete the following steps:

1. Close WebSphere Business Modeler.
2. Browse to the workspace being used by WebSphere Business Modeler. The default path of the workspace is `C:\Documents and Settings\user name\My Documents`.
3. Delete the folder with the same name as the project that you want to restore. For example, if you want to restore the *ABC project*, delete the *ABC project* folder.
4. Browse to the `workspace\.metadata\plugins\com.ibm.btools.model` folder and select a backup file. Each backup file identifies a project. If there are multiple backup files for a project, use the creation or modification dates to identify which file you want to use. Both of these dates reflect when WebSphere Business Modeler created the file.
5. Unzip the backup file into the workspace folder. Make sure that you preserve the structure within the ZIP file. If you use Winzip, ensure that you enable the **Use folder names** checkbox when you are extracting the

contents of the backup file. For example, if you are restoring the ABC project, after unzipping the backup ABC project file, the workspace will have an ABC project folder.

6. Restart WebSphere Business Modeler.

The Project Tree view displays the project that you restored. The contents of the project reflect what the project contained when WebSphere Business Modeler saved the backup file.

Setting logging and tracing preferences

You can set whether WebSphere Business Modeler records messages and traces into log files. The log files aid IBM Support in identifying the cause of problems.

Turning on logging and tracing has a large impact on the performance of WebSphere Business Modeler. Normally you will not need to use logging unless a support representative is working with you and asks you for the log information. You can find the log files in the *workspace*\.metadata folder, where *workspace* is the path to the workspace that WebSphere Business Modeler is using. The default workspace path is C:\Documents and Settings*user name*\.My Documents.

To set logging and tracing preferences, complete the following steps:

1. From the **Window** menu, select **Preferences**.
2. Select **Business Modeling** from the list and click the plus sign to open the available settings.
3. Click **Logging**.
4. In the Log area, select the severity of messages to log. Select **Error** (the default) to log only errors. Select **Warning** to log both warnings and errors.
5. In the Trace area, select the check box to **Enable tracing**. Enabling tracing will have an impact on performance.
6. Select the messages to trace. Select **Information** (the default) to trace user interactions, **Entry** (which includes Information) to trace entry into methods, or **All** to trace everything. Selecting **All** will have the greatest impact on performance.
7. Select the **Components to trace**, such as infrastructure or model. The default is **All**.
8. In the Archive area, select the check box to enable archiving of the log files. Archiving is enabled by default. A new log file is created for each session, and the previous log file is preserved.

9. Select the number of days to archive the log files. The default is 7, which means the archived files are deleted after 7 days. If you specify 0, the files will never be deleted.
10. Click **Apply** and then **OK** to apply your changes and close the preferences page.

Connecting to DB2 databases

Before you can use IBM DB2 Express to store the results of process simulations, you must connect to your DB2 database.

The DB2 database to which you connect must have been created using DB2 Express 9 or DB2 Express 9.x.

To connect to your DB2 database, complete the following steps:

1. In IBM WebSphere Business Modeler, click **Window** → **Preferences**. The Preferences window opens.
2. In the navigation, expand **Business Modeling**, expand **Simulation**, and select **Database Connection**.
3. From the drop-down list, select **DB2 Universal Database Express Edition 9.x**.
4. Enter the database name, user name, and password that you used to create the DB2 database.

Important: To store the simulation results successfully, you must enter a user name and password that has the appropriate level of authority for the DB2 database.

5. Click **Test Connection**.

Tip: If a message appears indicating that the database connection was not successful, check whether you entered the correct database name, user ID, and password. Also verify that you have the correct level of authority to connect to the database. If you continue to have problems connecting to the database, contact your DB2 system administrator.

Although you can use the default settings for a DB2 database to store your simulation results, you can improve the performance of your simulations and any analyses that you run on them by optimizing the configuration of your DB2 database for this purpose.

Optimizing DB2 databases for simulation

If you need to run simulations of large process models or processes with a large number of tokens, you can improve the performance of these simulations and any analysis that you do on them by optimizing the configuration of the DB2 database in which you store your simulation results.

The exact configuration of your database depends on the available system resources and on the resource requirements of other applications running on the system.

Important: You must have DB2 Express 9 installed on your system. If you are creating a new DB2 database or configuring an existing one, you require SYSADM authority.

DB2 information: If you need information about how to use DB2, refer to the DB2 Information Center at <http://publib.boulder.ibm.com/infocenter/db2luw/v9/index.jsp>.

To optimize your DB2 database configuration for simulation, complete the following steps:

1. If you are creating a new DB2 database, open the DB2 Control Center and create a database. For example, you could use the Create Database wizard to create the new database.
 - Set up the database for high performance (database managed space).
 - Define containers for user tables, system catalog tables, and system temporary tables. A database with database managed space requires manual maintenance and tables might run out of space if the container size is set too small.
2. Set the isolation level of the database to uncommitted read (no locks). For example, you could use the Configuration Advisor to set the isolation level of the database.
3. Configure the database logging options. For example, you could use the Database Logging wizard to configure the database logging options.
 - To avoid filling the log, set the log file size to a high value (above 10 000 pages recommended).
 - If two or more hard disks are available, set the logging location to a hard disk other than the one where the database containers are located. Putting the database logs on a separate hard disk from the database containers optimizes performance.
4. Increase the size of the buffer pools. For example, you could use the Alter Buffer Pool window to increase the size of your buffer pools. On a system with a large amount of RAM (2 GB and above), it is recommended that you significantly increase the buffer pool size from the default value to accommodate the additional buffer pool resources required for IBM WebSphere Business Modeler simulations to function effectively. When setting buffer pool size, consider both the available memory and the memory required by other applications that run at the same time, including IBM WebSphere Business Modeler.

If you get a database error when you run your simulations, try increasing your container sizes. If you find that your simulations are running very slowly, try increasing the size of your buffer pools.

Improving performance by changing the heap size

The heap is the amount of memory that the Java Virtual Machine (JVM) running WebSphere Business Modeler is allowed to use.

It is recommended that you increase the heap size to its optimal size to prevent out of memory errors from occurring when you are working with large and complex models. However, if the heap size is too large, the system does not have enough physical memory and must start using virtual memory to hold the data that it is using. Virtual memory can also be used sooner than expected if you are running other memory intensive applications at the same time as Modeler. Virtual memory is significantly slower than physical memory.

System memory (physical)	Optimal heap size
512 MB	256 MB
1 GB	512 MB
1.5 GB	768 MB
2+ GB	1024 MB

By default, the minimum heap size is set to 512 MB and the maximum heap size is set to 768 MB. For systems with smaller amounts of physical memory, reducing the size of the heap to improve performance may cause out of memory errors.

There are two ways to change the heap size. You can either change the parameters in the eclipse.ini file, or you can add parameters to the shortcut properties.

To change the heap size for the JVM, complete the following steps:

1. If WebSphere Business Modeler is running, close it.
2. Locate the eclipse.ini file located in the directory where you installed the files for WebSphere Business Modeler. For example, if you installed the files in your Program Files directory, you will find the eclipse.ini file in a directory like Program Files\IMB\WBModeler61.
3. Make a backup of the file.
4. Open the file in a text editor. You will see a line that reads **-vmargs**, which stands for virtual machine arguments. Under it you will see several other

parameters on their own lines, including the **-Xmx** parameter that specifies the maximum heap size and the **-Xms** parameter that specifies the minimum heap size.

5. Change the parameters to specify the maximum and minimum heap size that you want. For example:

```
-Xms768m  
-Xmx1024m
```

This example sets the minimum heap size to 768 MB and the maximum heap size to 1024 MB.

6. Start WebSphere Business Modeler.

Alternatively, to change the heap size using the shortcut properties, complete the following steps:

1. If WebSphere Business Modeler is running, close it.
2. Right-click the **IBM WebSphere Business Modeler Advanced 6.1** icon on your desktop.
3. From the pop-up menu, select **Properties**. The properties window for the shortcut appears.
4. Append the **-vmargs** parameter, followed by the **-Xmx** parameter and the required maximum, or the **-Xms** parameter and the required minimum, or both, to the end of the command in the **Target** field. For example:

```
-vmargs -Xmx1024m
```

specifies a maximum heap size of 1024 MB. The **-vmargs** parameter and its arguments must be at the end of the command.

5. Click **OK**.
6. Start WebSphere Business Modeler.

The JVM uses the heap size that you specified.

Chapter 8. Migrating projects or organizations overview

After installing IBM WebSphere Business Modeler, you must either create a Version 6.1.2 workspace and migrate your projects to it or migrate your workspace along with its projects.

Ensure that you have prepared your projects or organizations for migration.

To migrate your projects or organizations, complete the following steps:

1. Based on your migration plan, migrate your projects or organizations using the most appropriate method:
 - To migrate projects or organizations that you have exported, import your projects or organizations into a Version 6.1.2 workspace. You must migrate Version 4.2.4 organizations using this method. The migration process converts Version 4.2.4 organizations into new Version 6.1.2 projects.
 - If you use the versioning feature of WebSphere Business Modeler, check the projects that you want to migrate out from your version control system (for example, CVS).
 - To use the automatic workspace migration feature of WebSphere Business Modeler, specify the workspace that you want to migrate when you run WebSphere Business Modeler Version 6.1.2. The workspace that you select is automatically migrated.
2. Ensure that your migrated process models are complete. Depending on the version of the product from which you are migrating, you might have to perform some additional work on your projects or organizations after you migrate them to ensure that they work properly with WebSphere Business Modeler Version 6.1.2 enhancements. For example, validation of timetable values was improved in WebSphere Business Modeler Version 6.0.2.1. For projects that you migrate from earlier versions of WebSphere Business Modeler, this improved timetable validation might uncover errors that were not flagged before.
3. If you encounter problems other than insufficient disk space with the migration of your projects or organizations, correct your projects or organizations in the version of WebSphere Business Modeler from which you are migrating.

Remember: If there is insufficient disk space to back up the workspace, you can migrate your projects by importing them into WebSphere Business Modeler Version 6.1.2.

Note: If you have a workspace created in WebSphere Business Modeler, and you try to open that workspace in another version of WebSphere Business Modeler, you might receive the error message, "Could not restore workbench layout". This error can be disregarded. Simply click **OK** to proceed.

Related tasks

"Migrating Version 4.2.4 organizations"

Migrating your Version 4.2.4 organizations to Version 6.1.2 projects requires that you import your organizations into a Version 6.1.2 workspace as new projects. Importing an organization does not modify the original files.

"Migrating Version 5 projects" on page 91

After you install IBM WebSphere Business Modeler Version 6.1.2, you can migrate projects to it created in IBM WebSphere Business Integration Modeler Version 5.

"Migrating Version 6 projects" on page 97

After you install IBM WebSphere Business Modeler Version 6.1.2, you can migrate projects created in earlier Versions 6 products.

Migrating Version 4.2.4 organizations

Migrating your Version 4.2.4 organizations to Version 6.1.2 projects requires that you import your organizations into a Version 6.1.2 workspace as new projects. Importing an organization does not modify the original files.

You can import organizations from IBM WebSphere Business Integration Workbench Version 4.2.4 or one of the following modification levels of that version:

- Version 4.2.4 Fix Pack 1
- Version 4.2.4 Fix Pack 1 Hot Fix
- Version 4.2.4 Fix Pack 2

To migrate organizations from WebSphere Business Integration Workbench Version 4.2.4, complete the following steps:

1. If you are using a version of WebSphere Business Integration Workbench that is not supported by the Version 6.1.2 import process, open your organizations in one of the supported versions of WebSphere Business Integration Workbench and then save the organizations.
2. After you import your organizations into new Version 6.1.2 projects, ensure that the migrated business process models are complete.
3. If any errors occurred during the import process that require you to correct the original files, correct the organizations in WebSphere Business Integration Workbench Version 4.2.4, export the organizations, and migrate them to Version 6.1.2 again.

After you migrate your Version 4.2.4 organizations, you might have to address one or more of the following issues:

- Most of the WebSphere Business Integration Workbench organization elements and information map to WebSphere Business Modeler projects in a straightforward way. However, due to differences in the underlying structure of the two products, some elements and attributes do not migrate.
- Business measures defined in Version 4.2.4 performance models will no longer be available. You must re-create the business measures in WebSphere Business Modeler Version 6.1.2.
- Reports, views, and tables for viewing data in WebSphere Business Integration Workbench sometimes have no recommended replacements in WebSphere Business Modeler.
- Only simulation settings in WebSphere Business Integration Workbench that have corresponding settings in WebSphere Business Modeler Version 6.1.2 are migrated. To include simulation information in your new Version 6.1.2 projects, you must select a simulation profile when you import your Version 4.2.4 organizations. Then, you must rerun the simulations in Version 6.1.2.
- In Version 6.1.2, new functionality has been added to allow you to share elements across projects in a workspace. This new functionality brings an extra restriction on duplicate element names.

If you have two projects in your workspace that contain catalogs with the same name, any elements within those catalogs must be named uniquely. This might happen if you import the same organization more than once into separate projects in the same workspace, keeping the names of the elements and catalogs the same. If two elements have the same name and they reside in catalogs with the same name, you should rename these elements to unique names after migrating.

Importing Version 4.2.4 organizations into WebSphere Business Modeler

Migrate your IBM WebSphere Business Integration Workbench Version 4.2.4 organizations into new IBM WebSphere Business Modeler Version 6.1.2 projects using the Import wizard.

Ensure that your organization files are saved in WebSphere Business Integration Workbench Version 4.2.4 or one of the supported modification levels of that version.

To import a Version 4.2.4 organization into WebSphere Business Modeler, complete the following steps:

1. In the Project Tree view, right-click and select **Import**. The Import wizard opens.
2. Select **WebSphere Business Integration Modeler V4.2.4 (.org)**, and click **Next**.

3. In the **Source directory** field, specify the source directory of the organization (.org file) that you want to import.
 - a. Click **Browse**. The Browse for Folder window opens.
 - b. Navigate to the folder that you want, and click **OK**. The window closes.

The **Files** field now displays all the available organizations.

4. Select the organization file that you want to import. You must import organizations one by one.
5. Specify a name for the new project to create from the organization.
 - a. Click **New**. The New Project wizard opens.
 - b. In the **New project name** field, enter a name for the new project.
 - c. Click **Finish**. The wizard closes. A new project is created with the name that you specified, and its name appears in the **Target project** field.
6. If you want WebSphere Business Modeler to create a simulation profile based on the organization that you are importing, then select the **Create simulation profile** check box. If you leave the check box clear, then simulation information contained in your original organization is not migrated to WebSphere Business Modeler.
7. Select the mapping preference that you want to use for the import. Neither preference allows you to import performance model information.
 - If you are building a process model with the intention of automating its processes using IBM WebSphere MQ Workflow, click **MQ Workflow**. A process model imported with this option contains the attributes required by WebSphere MQ Workflow.
 - For all other purposes, click **Non-MQ Workflow**.

Note: The preference that you choose has an effect on which WebSphere Business Modeler elements are used to replace the elements in the original model. The preference can affect whether an element is migrated at all. If you have an organization in which some of the process models are meant for use with WebSphere MQ Workflow and some of the process models are not, it is recommended you import the .org file twice, creating a new project for each option.

8. Click **Finish**.
9. If a window opens saying that errors occurred during the import process, click **Details** to review the errors or click **Save Details** to save the error log to a text file.

If any of the errors require you to correct the original file, you must import it again after you make the corrections in WebSphere Business Integration Workbench Version 4.2.4.

Cleaning up projects after migration

New Version 6.1.2 projects created by importing Version 4.2.4 organizations require additional work to ensure that the business process models are complete before you use these projects.

To clean up a new project after migration, complete the following steps:

1. Validate the process models using the Errors view to see if there are any consistency errors in the models. Correct any errors that you find.
2. Add terminate nodes to the processes, subprocesses, and loops in each process model. Terminate nodes are not added during the import process. For simulations to work correctly, you require terminate nodes. A terminate node marks the end of a process, subprocess, or loop. When a process flow reaches a terminate node, the process stops immediately even if there are other flows running at the same time.

Note: The terminate node used in WebSphere Business Modeler is significantly different from the stop object used in WebSphere Business Integration Workbench. The equivalent to the WebSphere Business Integration Workbench stop object is the WebSphere Business Modeler end node.

3. Reenter any information that was mapped into comments instead of directly to process elements. For example, information stored in decision expressions and phi mapping expressions is converted into comments and must be reentered. Refer to the element mapping documentation to help you with this process.
4. Reenter any business measures information using the Business Measures view. You can use the information in your Version 4.2.4 Business Measures report to help you add business measures to the new project.
5. Rename any elements with names that are too long to display easily. Even though this step does not affect the function of process models, it improves ease of use.
6. If required, rearrange the locations of the elements in the model diagrams so that the diagrams are easy to interpret.
7. Review the project to make sure that it still accurately models the processes. Correct any inaccuracies that you find.
8. Validate the process models again using the Errors view in case consistency errors were introduced during the cleanup process. Correct any errors that you find.

You can now use the business process models in your new projects.

Remember: When you generate reports from your new projects, the reports, views, and tables that are available for viewing data in WebSphere Business Integration Workbench sometimes have no replacements in WebSphere Business Modeler.

Element mapping

Most IBM WebSphere Business Integration Workbench organization elements, settings, and attributes map to IBM WebSphere Business Modeler projects. However, some elements, settings, and attributes do not migrate.

The performance model information stored in the WebSphere Business Integration Workbench business measures does not map to a set of equivalent business measures in WebSphere Business Modeler.

Additionally, certain elements might migrate differently depending on whether you use the **MQ Workflow** or the **Non-MQ Workflow** mapping preference when you import your Version 4.2.4 organizations into WebSphere Business Modeler Version 6.1.2. Some elements might not migrate at all based on the option that you use. For example, runtime elements such as Domain, System Group, or System are not usually not migrated when you use the **MQ Workflow** option.

Elements that are directly mapped during migration


When you migrate an IBM WebSphere Business Integration Workbench organization to a IBM WebSphere Business Modeler project, most of the Activity Decision Flow (ADF) elements of the organization are mapped directly to elements in the new project.

Repository elements

The following table lists the ADF repository elements that have direct equivalents in WebSphere Business Modeler and what those equivalents are. If the WebSphere Business Modeler element that is used depends on the mapping preferences that you use to import the organization, the values for each option are given.

ADF element name	WebSphere Business Modeler element name	Comments
Application	Service and bulk resource (MQ Workflow option) Bulk resource only (Non-MQ Workflow option)	

ADF element name	WebSphere Business Modeler element name	Comments
Calendar	Timetable	<p>If the original model was created using locale settings that define the first day of the week as different from the current locale, then the days of the week that are assigned as standard working days may shift during import. If this happens, you can correct it by completing the following steps:</p> <ol style="list-style-type: none"> 1. Change the Beginning on date for the calendar to a date in 1980 that corresponds to the required start day of week. 2. Manually correct the names of the time intervals. 3. Repeat these steps for both the “standard working” and “standard non-working” timetables.
Data structure	Business item	
Employee	Individual resource	The specific individual resource used is based on the predefined Staff resource definition.
Location	Location	
Location tree	Structure	
Organization unit	Organization unit	
Organization tree	Structure	
Partner interaction	Business item (Non-MQ Workflow option only. No mapping for MQ Workflow option.)	

ADF element name	WebSphere Business Modeler element name	Comments
Phi	Business item (Non-MQ Workflow option only. No mapping for MQ Workflow option.)	
Phi category	Business item template	<p>Templates do not appear in the Project Tree view by default. To display templates, click the Project tree filters</p>  <p>button on the toolbar at the top of the Project Tree view, and clear the Definition templates check box.</p>
Phi type	Business item template	
External entity	Individual resource	
External process	Service (MQ Workflow option only. No mapping for Non-MQ Workflow option.)	
Resource	Bulk resource	
Role	Role	

Process elements

The following table lists the ADF process elements that have equivalents in WebSphere Business Modeler and what those equivalents are. When the equivalent operation element depends on the mapping preferences that you use to import the organization, the values for each option are given.

ADF element name	WebSphere Business Modeler element name	Comments
Annotation	Annotation	

ADF element name	WebSphere Business Modeler element name	Comments
Choice	Decision	Choice information becomes part of the decision branch information of a decision element. If you selected the Create simulation snapshot option in the Import wizard, then decision choice percentage values also become part of the simulation profile information of the new project.
Control connector	Control connection	
Data connector	Data connection	
Decision	Decision	When using the MQ Workflow option, decision expressions are mapped into comments, and must be reentered after migration. Expressions are not mapped when using the Non-MQ Workflow option.
Go to	Connector	Go-to objects are removed. Any connectors that point to them are continued through to their final target.
Input container	Data input (MQ Workflow option only. No mapping for Non-MQ Workflow option.)	
Multi-instance	Local task	
Output container	Data output (MQ Workflow option only. No mapping for Non-MQ Workflow option.)	

ADF element name	WebSphere Business Modeler element name	Comments
Partner interaction	Local task (MQ Workflow option) Input or output data type (Non-MQ Workflow option)	
Phi	Map (MQ Workflow option) Input or output data type (Non-MQ Workflow option)	Any mapping expressions used by the Phi object are mapped to comments and need to be reentered as map expressions in the new model.
External entity	Local task	The individual resource created from the external entity is included as a resource in the local task definition.
External process	Global service (MQ Workflow option) Local task (Non-MQ Workflow option)	When using the Non-MQ Workflow option, the individual resource created from the external entity associated with the process is included as a resource in the local task definition. No resources are associated with a global service created using the MQ Workflow option.

ADF element name	WebSphere Business Modeler element name	Comments
Stop	End node	<p>Connections to end nodes do not have data associated with them. If an element in the original diagram connects to a phi and then to a stop object, then a new output is created for that element when it is migrated. The new output connects directly to the end node and has no associated data. However, because the original element created data, the migrated element also contains an unconnected output with associated data. This unconnected output can be removed manually after migration.</p> <p>Note: WebSphere Business Modeler also has a terminate node, but its function is significantly different from the stop object in WebSphere Business Integration Workbench.</p>
Subprocess (when defined as a block)	Local process (MQ Workflow option) Global process (Non-MQ Workflow option)	If the subprocess is never used, it is dropped from the model during migration.
Subprocess (when defined as a process activity)	Global process	
Task	Local task	
Task with service application	Local task (Non-MQ Workflow option) Service invocation (MQ Workflow option)	

Attributes that are mapped during migration

When you migrate an IBM WebSphere Business Integration Workbench organization to a IBM WebSphere Business Modeler project, much of the information contained in the task attributes is preserved.

Task attributes

The following table lists some of the commonly used Activity Decision Flow (ADF) task attributes and indicates where the information from them is located after you import your organization into a project. Abbreviations are not mapped.

ADF task attribute name	WebSphere Business Modeler element or attribute name	Comments
Additional resources	Bulk resource	
Application	Task bulk resource	
Classification	Classifier	Specific classification values are mapped to classifier values under the related classifier.
Function	Classifier	Specific function values are mapped to classifier values under the related classifier.
Name	Task name	
Notes header	Task descriptions	The various headers, such as description or input conditions, are preserved as text in the resulting task description.
Organization unit	Task organization unit	
Quality Control	Classifier	Specific quality control values are mapped to classifier values under the related classifier.
Resource requirements (for applications)	Bulk resource requirement	
Resource requirements (for resources)	Bulk resource requirement	
Resource requirements (for roles)	Role requirements	
Reference number (RN)	Appended to the task name	

ADF task attribute name	WebSphere Business Modeler element or attribute name	Comments
Role	Task role	
Staff assignment	Individual resource requirement (if assigned to a resource) Role requirement (if assigned to a role)	This mapping is only valid when importing using the MQ Workflow option. The information from this attribute is not imported when using the Non-MQ Workflow option.
Value Add	Classifier	Specific value add values are mapped to classifier values under the related classifier.
Work Flow	Classifier	Specific work flow values are mapped to classifier values under the related classifier.
Working duration	Role time required and bulk resource time required	The role associated with the task becomes included as a role requirement for the task, with a Time Required value equal to the original working duration. Any additional resources associated with the task become included as bulk resource requirements and are listed with the same Time Required value.
Task concurrency	Maximum number of simultaneous tasks	If you selected the Create simulation snapshot option in the Import wizard, then this attribute's values also become part of the simulation profile information of the new project.

ADF task attribute name	WebSphere Business Modeler element or attribute name	Comments
Task duration	Time required to finish task	If you selected the Create simulation snapshot option in the Import wizard, then this attribute's values also become part of the simulation profile information of the new project.
Number required	Quantity	If you selected the Create simulation snapshot option in the Import wizard, then this attribute's values also become part of the simulation profile information of the new project.
Duration	Time required	If you selected the Create simulation snapshot option in the Import wizard, then this attribute's values also become part of the simulation profile information of the new project.

Choice attributes

The **Percent chance** value of the WebSphere Business Integration Workbench Choice element is mapped to the WebSphere Business Modeler **Probability percent value** of a decision element.

Elements that are added during migration

When you migrate a WebSphere Business Integration Workbench organization to a WebSphere Business Modeler project, the import process sometimes adds new elements to process models to maintain the accuracy of the models.

The following table lists the elements that might be added to migrated process models and the circumstances that cause their addition.

Element name	When element is added
Fork	A fork is added if a task or subprocess in the WebSphere Business Integration Workbench model has multiple output data connectors.
Join Merge	A join or a merge is added if a process element in the WebSphere Business Integration Workbench model has multiple input data connectors. The start condition of the original element determines whether a join or a merge is used.
Start node	A start node triggers a flow that has no data inputs.

Model information that does not migrate

The information contained in certain elements and attributes of IBM WebSphere Business Integration Workbench organizations does not migrate to IBM WebSphere Business Modeler projects.

Information in the following WebSphere Business Integration Workbench elements and attributes does not migrate to WebSphere Business Modeler:

- Activity groups
- Business measures
- Business roles
- Charts of accounts
- Data fields that do not have a parent structure
- Databases
- Employee accounts
- Employee levels
- Functions
- Goals
- Issues
- Media
- Operating systems
- Policies
- Procedures
- Process functions
- Process pools
- Phi states

- Process roles
- Skill types
- Skills
- Task functions
- Transfer durations

Simulation settings that are mapped during migration

If you choose to create a simulation profile when you migrate an IBM WebSphere Business Integration Workbench organization to an IBM WebSphere Business Modeler project, then model information used for simulation is included in the new project. If you do not create a simulation profile during the import process, the simulation information is not included in the new project.

General settings

The following table lists the WebSphere Business Integration Workbench settings that are used by simulations and the WebSphere Business Modeler settings that they are mapped to.

WebSphere Business Integration Workbench setting	WebSphere Business Modeler setting
Random number seed	Random number seed
Simulation start time	Process start date and time
Maximum durations	Maximum simulation duration

Task attributes

The following table lists the WebSphere Business Integration Workbench task requirements that are used by simulations and the WebSphere Business Modeler attributes that they are mapped to.

WebSphere Business Integration Workbench requirement	WebSphere Business Modeler equivalent
Task concurrency	Maximum number of simultaneous tasks
Task duration	Time required to finish task
Number required	Quantity
Duration	Time required

Choice attributes

The **Percent chance** value of the WebSphere Business Integration Workbench Choice element is mapped to the WebSphere Business Modeler **Probability percent value** decision output criteria.

Report mapping

In certain cases, the reports, views, and tables that are available for viewing data in IBM WebSphere Business Integration Workbench have replacements in IBM WebSphere Business Modeler.

Report equivalents

When you migrate an IBM WebSphere Business Modeler organization to an IBM WebSphere Business Modeler project, some reports might require replacements and others do not migrate.

Time reports

The following table lists the time reports that are available in WebSphere Business Integration Workbench, and the recommended WebSphere Business Modeler reports to use instead.

WebSphere Business Integration Workbench report	Recommended replacement report
Cases Cycle Times	Process Cycle Time
Cases Process Times	Process Cycle Time
Cases Total Times	Process Total Time
Cases Resource Times	Process Resource Analysis, Process Instance Resource Allocation
Cycle Times	Process Cycle Time
Process Times	Process Cycle Time
Total Times	Process Total Time
Resource Times	Process Resource

Cost reports

The following table lists the cost reports that are available in WebSphere Business Integration Workbench and the recommended WebSphere Business Modeler reports to use instead.

WebSphere Business Integration Workbench report	Recommended replacement report
Cases Total Costs	Process Cost

WebSphere Business Integration Workbench report	Recommended replacement report
Total Costs	Process Cost

Classifications reports

The classifications used by WebSphere Business Integration Workbench do not have equivalents in WebSphere Business Modeler. Therefore, there are no recommended replacement reports.

Index reports

The following table lists the index reports that are available in WebSphere Business Integration Workbench and the recommended WebSphere Business Modeler reports to use instead.

WebSphere Business Integration Workbench report	Recommended replacement report
Cases Wait Time Index	Process Wait Time Index
Wait Time Index	Process Wait Time Index

The following index reports do not have a replacement in WebSphere Business Modeler:

- Cases Labour Index
- Cases Concurrency Index
- Cases Electronic Documents Index
- Cases Real Value Index
- Cases Work Flow Index
- Labour Index
- Concurrency Index
- Electronic Documents Index
- Real Value Index
- Work Flow Index

General reports

The following table lists the general reports that are available in WebSphere Business Integration Workbench and the recommended WebSphere Business Modeler reports to use instead.

WebSphere Business Integration Workbench report	Recommended replacement report
Process Cases	Process Instances Summary
Resources	Process Resource Analysis

The following remaining general reports do not have a replacement in WebSphere Business Modeler:

- Cases Activity Statistics
- Activity Statistics
- Condition Statistics
- Condition Probabilities
- Functions

Analysis reports

The following table lists the analysis reports that were available in WebSphere Business Integration Workbench, and the recommended WebSphere Business Modeler reports to use instead.

WebSphere Business Integration Workbench report	Recommended replacement report
Process Comparison	Process Cycle Time Comparison Processes Total Time Comparison Process Wait Time Indices Comparison Process Cost Comparison Process NPV/IRR Comparison Process Break Even Comparison Processes Resources Time Comparison Process Resources Cost Comparison

Note: The specific report that you choose depends on what aspect of the process you want comparison information for.

The following analysis reports do not have a replacement in WebSphere Business Modeler:

- Process Summary
- Process Redesign

Documentation reports

The WebSphere Business Integration Workbench documentation reports do not have an equivalent in WebSphere Business Modeler.

Procedure report

The following table lists the procedure reports that are available in WebSphere Business Integration Workbench and the recommended WebSphere Business Modeler reports to use instead.

WebSphere Business Integration Workbench report	Recommended replacement report
Procedure	Process Procedure

Data Matrix reports

Use the Services query to replace the Program Element Matrix report. The following remaining matrix reports do not have a replacement in WebSphere Business Modeler:

- Data Flow Matrix
- Data Elements Matrix
- Program Activities Matrix

Business Measures report

The business measures used by WebSphere Business Integration Workbench do not have equivalents in WebSphere Business Modeler. Therefore, there is no recommended replacement report.

View and table equivalents

When you migrate an IBM WebSphere Business Modeler organization to an IBM WebSphere Business Modeler project, some views and tables might require replacements and others do not migrate.

Views

The following table lists the views that are available in WebSphere Business Integration Workbench and the suggested WebSphere Business Modeler reports to use instead.

WebSphere Business Integration Workbench view	Recommended replacement report
Critical Path	Process Instance Critical Path Analysis

WebSphere Business Integration Workbench view	Recommended replacement report
Gantt Chart	Process Time Analysis
Resource Requirements Chart	Activity Resource Allocation
	Resource Utilization

Note: The recommended replacement reports contain information that is similar or equivalent to the information in the WebSphere Business Integration Workbench views. However, WebSphere Business Modeler presents the information in tabular form, and not as a chart.

The following views do not have a replacement in WebSphere Business Modeler:

- Communication Diagram
- Quick Charts

Tables

The tabular reports that are available in WebSphere Business Integration Workbench from **Table → Repository organization data**, **Table → Repository Process Data**, and **Table → Process Data** have no replacements in WebSphere Business Modeler. However, the data that was displayed in the following tables can be displayed using the WebSphere Business Modeler query builder and report designer features:

- Repository Organization Data - Organization Unit
- Repository Organization Data - Resource Allocation
- Repository Organization Data - Resources
- Repository Organization Data - Employees
- Repository Organization Data - Employees Roles
- Repository Process Data - Organization Processes
- Repository Process Data - Data Fields
- Repository Process Data - Data Structures Details
- Repository Process Data - Decisions
- Repository Process Data - Decision Choices

Migrating Version 5 projects

After you install IBM WebSphere Business Modeler Version 6.1.2, you can migrate projects to it created in IBM WebSphere Business Integration Modeler Version 5.

To migrate your WebSphere Business Integration Modeler Version 5 projects, complete the following steps:

1. Migrate your Version 5 projects using the appropriate option:
 - “Importing projects exported from Version 5”
 - “Migrating projects stored in a team repository” on page 93
 - “Migrating projects stored in your workspace” on page 94
2. Ensure that the migrated business process models are complete.
3. If any errors occurred during the import process that require you to correct the original files, correct the projects in WebSphere Business Integration Modeler Version 5 and then migrate them to Version 6.1.2 again.

After you migrate your Version 5 projects, you might have to address one or more of the following issues:

- Report templates created in Version 5 will no longer be available. You must re-create the report templates in Version 6.1.2.
- Simulation results generated in Version 5 will no longer be available. You must rerun the simulations in Version 6.1.2.
- In Version 6.1.2, new functionality has been added to allow you to share elements across projects in a workspace. This new functionality brings some extra restrictions on duplicate element identifiers and element names:
 - If two elements with the same internal identifier are detected in the workspace after migration, these will be flagged with errors. You should clean up these errors by deleting the duplicate elements before using your models.

If you migrate your projects by exporting them from Version 5 and importing them into Version 6.1, the import wizard notifies you if it detects any duplicate identifiers and prompts you to overwrite or skip any duplicate elements. Elements can then be shared between projects as needed.
 - If you have two projects in your workspace that contain catalogs with the same name, any elements within those catalogs must be named uniquely. If two elements have the same name and they reside in catalogs with the same name, you should rename these elements to unique names after migrating.
- If you have defined CVS locations, go to the CVS perspective and verify that the locations are still valid after migration. If they are not valid, delete and recreate them.

Importing projects exported from Version 5

You can use the IBM WebSphere Business Modeler Version 6.1.2 import function to migrate projects created using the IBM WebSphere Business Integration Modeler Version 5 export function (ZIP files).

To import projects exported from Version 5, complete the following steps:

1. In the Project Tree view of WebSphere Business Modeler Version 6.1.2, right-click and select **Import**. The Import wizard opens.
2. Select **WebSphere Business Modeler project**, and click **Next**.
3. Click **Browse**. The Browse for Folder window opens.
4. Navigate to the folder that contains the ZIP file that you want to import. Select the folder, and click **OK**.
5. In the **Files** list, select the ZIP file containing the project that you want to migrate.
6. In the **Target project** field, select an existing project from the drop-down list or click **New** to create a new project. Regardless of the option that you choose, the selected target project must be empty. The Import wizard allows you to select empty projects only.
7. Optional: If you do not want to import the simulation snapshots from your Version 5 project, clear the **Include simulation snapshots** option. Choosing not to import your simulation snapshots significantly increases the speed at which the migration completes.
8. When you have finished specifying the import options, click **Finish**. A window opens when the import process is complete.
9. If any errors or warnings occurred during the import process, click **Details** to review the errors in the window that appears or click **Save Details** to save the error log to a text file.
10. Click **OK**.
11. Validate your process models using the Errors view in case errors were introduced during migration. Correct any errors that you find.

If you have other ZIP files that you want to import, repeat this process for each file.

Migrating projects stored in a team repository

When you use IBM WebSphere Business Modeler Version 6.1.2 to check Version 5 projects out from CVS (Concurrent Versions System), WebSphere Business Modeler automatically migrates these projects.

Ensure that no Version 6.1.2 projects have the same name as a Version 5 project that you want to migrate. If any Version 6.1.2 project names match the name of the project in the Version 5 team repository, you will not be able to connect to the Version 5 project to migrate it. The online help has additional information about setting up and using team repositories for versioning projects.

When you migrate a Version 5 project that is stored in CVS, WebSphere Business Modeler creates a copy of the project in your workspace and migrates that copy. The original Version 5 project is not affected.

To migrate a Version 5 project stored in a team repository, complete the following steps:

1. In the Project Tree view of WebSphere Business Modeler Version 6.1.2, right-click anywhere, and select **Version** → **Check Out Project** from the context menu. The Check Out Project wizard opens.
2. Expand the CVS node to show its repositories, and expand the repository that contains the project.
3. Select the project that you want to migrate.
4. Click **Finish**. A dialog box opens and asks you to confirm that you want to migrate the project.
5. Click **Yes** to confirm that you want to migrate the project. A local copy of the project is created and migrated for use with Version 6.1.2.
6. Validate your process models using the Errors view in case errors were introduced during migration. Correct any errors that you find.

A migrated copy of the project is now in the workspace on your computer. There is no connection between the migrated project and the project in the Version 5 team repository. In addition, you cannot add a connection because the projects were made by different versions of WebSphere Business Modeler. If you want to continue sharing the migrated project, rename it and share it again using a new repository.

Suggestion: Set up separate team repositories for Version 5 and Version 6.1.2 projects. Earlier versions of WebSphere Business Modeler cannot access process models that have been shared using a later version of the product. So a Version 6.1.2 project can be shared only using WebSphere Business Modeler Version 6.1.2.

Migrating projects stored in your workspace

The first time that IBM WebSphere Business Modeler Version 6.1.2 accesses a workspace containing Version 5 projects, it automatically migrates the entire workspace and the projects in that workspace to Version 6.1.2. A backup of the original workspace is created during this migration in case you need to access the original process models again.

After a workspace has been migrated to WebSphere Business Modeler Version 6.1.2, the workspace cannot be accessed again using IBM WebSphere Business Integration Modeler Version 5. In addition, any projects that are shared using a Version 5 team repository have their connection to that repository broken.

To migrate projects stored in your workspace, complete the following steps:

1. If you installed WebSphere Business Modeler as a stand-alone application, run it. If you installed WebSphere Business Modeler as a set of Eclipse plug-ins for IBM WebSphere Integration Developer or one of the supported Rational products, run that product.
2. When you are asked to specify a workspace for your work session, specify the Version 5 workspace that you want to migrate and click **OK**. After a short time, the Migrate Workspace window opens.
3. Specify a backup location for the workspace. Ensure that the location you specify has enough space to store the backup copy. Otherwise, the migration will not proceed. The original workspace is not affected if the migration does not proceed.
4. Optional: If you are working on an English system and want to save space, select **Backup as ZIP file**.

Attention: If any of the paths in your workspace contain any non-English characters, including accented English characters, do not use the **Backup as ZIP file** option. Non-English characters cause problems with extracting the backup from ZIP files. If you are in doubt about whether your workspace paths contain any non-English characters, use the default backup option. After the migration is complete, you can compress the backup files using the program of your choice.

5. Click **OK**. When the migration is complete, the program restarts so that it can access the newly migrated workspace. A dialog appears that lists which projects migrated successfully and which did not. Messages are provided for any problems with migrating projects.
6. Use the Errors view to ensure that no errors were introduced into your models during migration. Correct any errors that you find.

Your workspace and all the projects that it contains are now migrated for use with WebSphere Business Modeler Version 6.1.2.

If you have another Version 5 workspace that you want to migrate, you can restart WebSphere Business Modeler and access that workspace to migrate it.

Recovering from a failed migration

If the migration of a project runs into problems, you can recover your projects in IBM WebSphere Business Integration Modeler Version 5.

To recover the files, you need to have a copy of WebSphere Business Integration Modeler Version 5 installed on your computer. The product version number must be the same as the one from which you tried to migrate the files.

Recovering files that have been exported from Version 5

To recover files that have been exported from WebSphere Business Integration Modeler Version 5, import the ZIP file into a copy of the Version 5 product following the instructions in the Version 5 documentation.

Recovering files that have been stored in a team repository

After migration, your projects remain available in your Version 5 team repository, and you can check them out using a copy of WebSphere Business Integration Modeler Version 5.

Recovering files from a failed workspace migration

A failure during workspace migration can occur either before or after the workspace is backed up. When a migration fails before the workspace is backed up, the failure usually indicates that there was not enough disk space available to complete the backup. You can retry the migration with a different backup location.

If the failure occurs after the workspace was backed up, you must restore the entire workspace before proceeding.

To recover your files from the backup workspace, complete the following steps:

1. Transfer the backup workspace to an empty directory:
 - If the backup workspace is stored in a ZIP file, extract this file to an empty directory.
 - If the backup workspace is not stored in a ZIP file, copy the backup workspace to another location. To preserve the backup for possible future use, it is preferable to copy rather than move the backup.
2. Run WebSphere Business Integration Modeler Version 5.
3. When you are asked to specify a workspace for your work session, specify the Version 5 workspace that you created from your backup.
4. Click **OK**. WebSphere Business Integration Modeler starts and opens the workspace.

The workspace is recovered.

Tip: When you do the migration again, try migrating your projects one at a time instead of migrating the entire workspace. Export each Version 5 project into its own file using the WebSphere Business Integration Modeler Export wizard. Then, follow the instructions in “Importing projects exported from Version 5” on page 92 to import the project into WebSphere Business Modeler Version 6.1.2.

Migrating Version 6 projects

After you install IBM WebSphere Business Modeler Version 6.1.2, you can migrate projects created in earlier Versions 6 products.

To migrate your WebSphere Business Modeler Version 6 projects, complete the following steps:

1. Migrate your Version 6 projects using the appropriate option:
 - “Importing projects exported from Version 6.0.x, and 6.1.x” on page 98
 - “Migrating projects stored in a team repository” on page 99
 - “Migrating projects stored in your workspace” on page 100
2. Ensure that the migrated business process models are complete.
3. If any errors occurred during the import process that require you to correct the original files, correct the projects in the earlier version of WebSphere Business Modeler from which you migrated the files. Then, you can migrate your projects to Version 6.1.2 again.

After you migrate your Version 6.0, 6.0.1 or 6.0.2 projects, you might have to address one or more of the following issues:

- Business measures defined in Version 6 or Version 6.0.1 will no longer be available. You must re-create the business measures in Version 6.1.2.
- Report templates created in Version 6 or Version 6.0.1 that rely on a business measure data source will no longer be available.
- Custom reports that use a dynamic analysis data source might not be able to access some data. The structure and semantics have changed for some dynamic analysis data, so it might be necessary to change the affected report fields (their labels or the data location to which they point).
- Simulation results generated in Version 6.0, 6.0.1 or 6.0.2 will no longer be available. You must rerun the simulations in Version 6.1.2.
- If you have defined CVS locations, go to the CVS perspective and verify that the locations are still valid after migration. If they are not valid, delete and recreate them.
- In Version 6.1.2, new functionality has been added to allow you to share elements across projects in a workspace. This new functionality brings some extra restrictions on duplicate element identifiers and element names:
 - If two elements with the same internal identifier are detected in the workspace after migration, these will be flagged with errors. You should clean up these errors by deleting the duplicate elements before using your models. The elements can then be shared between projects as needed.

If you migrate your projects by exporting them from an earlier version and importing them into Version 6.1, the import wizard notifies you if it detects any duplicate identifiers and prompts you to overwrite or skip any duplicate elements.

- If you have two projects in your workspace that contain catalogs with the same name, any elements within those catalogs must be named uniquely. If two elements have the same name and they reside in catalogs with the same name, you should rename these elements to unique names after migrating.
- Migrated report templates that use names for identification might produce multiple results in the output if there are multiple elements with the same name.
- If you have defined CVS locations, go to the CVS perspective and verify that the locations are still valid after migration. If they are not valid, delete and recreate them.

Importing projects exported from Version 6.0.x, and 6.1.x

You can use the IBM WebSphere Business Modeler Version 6.1.2 import function to migrate projects exported from Version 6.0.x or Version 6.1.x (.mar files).

To import projects exported from WebSphere Business Modeler Version 6, complete the following steps:

1. In the Project Tree view of WebSphere Business Modeler Version 6.1.2, right-click and select **Import**. The Import wizard opens.
2. Select **WebSphere Business Modeler project**, and click **Next**.
3. Click **Browse**. The Browse for Folder window opens.
4. Navigate to the folder containing the .mar file that you want to import. Select the folder, and click **OK**.
5. In the **Files** list, select the .mar file containing the project that you want to migrate.
6. In the **Target project** field, select an existing project from the drop-down list or click **New** to create a new project. Regardless of the option that you choose, the selected target project must be empty. The Import wizard allows you to select empty projects only.
7. Optional: If you do not want to import the simulation snapshots from your earlier version of the project, clear the **Include simulation snapshots** option. Choosing not to import your simulation snapshots significantly increases the speed at which the migration completes.
8. When you have finished specifying the import options, click **Finish**. A window opens when the import process is complete.

9. If any errors or warnings occurred during the import process, click **Details** to review the errors in the window that appears or click **Save Details** to save the error log to a text file.
10. Click **OK**.
11. Validate your process models using the Errors view in case errors were introduced during migration. Correct any errors that you find.

If you have other project .mar files that you want to import, repeat this process for each file.

Migrating projects stored in a team repository

When you use IBM WebSphere Business Modeler Version 6.1.2 to check earlier Version 6 projects out from your version control system (for example, CVS), WebSphere Business Modeler automatically migrates these projects.

Ensure that no Version 6.1.2 projects have the same name as the project that you want to migrate. If any Version 6.1.2 project names match the name of the project in the earlier version's team repository, you will not be able to connect to the earlier version's project to migrate it. The online help has additional information about setting up and using team repositories for versioning projects.

When you migrate a Version 6.x project that is stored in a version control system repository, WebSphere Business Modeler creates a copy of the project in your workspace and migrates that copy. The original project is not affected.

To migrate an earlier Version 6.x project stored in a team repository, complete the following steps:

1. In the Project Tree view of WebSphere Business Modeler Version 6.1.2, right-click anywhere, and select **Version** → **Check Out Project** from the context menu. The Check Out Project wizard opens.
2. Expand the CVS or ClearCase node to show its repositories, and expand the repository that contains the project.
3. Select the project that you want to migrate.
4. Click **Finish**. A dialog box opens and asks you to confirm that you want to migrate the project.
5. Click **Yes** to confirm that you want to migrate the project. A local copy of the project is created and migrated for use with Version 6.1.2
6. Validate your process models using the Errors view in case errors were introduced during migration. Correct any errors that you find.

A migrated copy of the project is now in the workspace on your computer. There is no connection between the migrated project and the original project in the team repository. In addition, you cannot add a connection because the

projects were made by different versions of WebSphere Business Modeler. If you want to continue sharing the migrated project, rename it and share it again using a new repository.

Suggestion: Set up separate team repositories for projects created with earlier and later versions WebSphere Business Modeler. Earlier versions of WebSphere Business Modeler cannot access process models that have been shared using a later version of the product. So a Version 6.1.2 project can be shared only using WebSphere Business Modeler Version 6.1.2.

Migrating projects stored in your workspace

The first time that IBM WebSphere Business Modeler Version 6.1.2 accesses a workspace containing projects created on an earlier version, the product automatically migrates the entire workspace and the projects in that workspace to Version 6.1.2. A backup of the original workspace is created during this migration in case you need to access the original process models again.

After a workspace has been migrated to WebSphere Business Modeler Version 6.1.2, the workspace cannot be accessed again using an earlier version of the product. In addition, any projects that are shared using a team repository have their connection to that repository broken.

To migrate projects stored in your workspace, complete the following steps:

1. If you installed WebSphere Business Modeler Version 6.1.2 as a stand-alone application, run it. If you installed WebSphere Business Modeler Version 6.1.2, so that it integrates with IBM WebSphere Integration Developer or one of the supported Rational products, run that product.
2. When you are asked to specify a workspace for your work session, specify the workspace that you want to migrate and click **OK**. After a short time, the Migrate Workspace window opens.
3. Specify a backup location for the workspace. Ensure that the location you specify has enough space to store the backup copy. Otherwise, the migration will fail. However, the original workspace is not affected if the migration fails because a backup cannot be created.
4. Optional: If you are working on an English system and want to save space, select **Backup as ZIP file**.

Attention: If any of the paths in your workspace contain non-English characters, including accented English characters, do not use the **Backup as ZIP file** option. Non-English characters cause problems when extracting the backup files. If you are in doubt about whether your workspace paths contain any non-English characters, use the default backup option. After the workspace migration is complete, you can compress the backup files using the program of your choice.

5. Click **OK**. When the migration is complete, the program restarts so that it can access the newly migrated workspace. A dialog appears that lists which projects migrated successfully and which did not. Messages are provided for any problems with migrating projects.
6. Use the Errors view to ensure that no errors were introduced into your models during migration. Correct any errors that you find.

Your workspace and all the projects that it contains are now migrated for use with WebSphere Business Modeler Version 6.1.2.

If you have another Version 6.x workspace that you want to migrate, you can restart WebSphere Business Modeler Version 6.1.2 and access that workspace to migrate it.

Recovering from a failed migration

If the migration of a project to Version 6.1.2 runs into problems, you can recover your projects in IBM WebSphere Business Modeler Version 6.x.

To recover the files, you need to have the same version number of WebSphere Business Modeler from which you tried to migrate the files installed on your computer.

Recovering files that have been exported from Version 6.x

To recover files that have been exported from WebSphere Business Modeler Version 6.x, import the ZIP file into a copy of the appropriate Version 6 product following the instructions in the documentation for that product.

Recovering files that have been stored in a team repository

After migration, your projects remain available in your earlier-version team repository, and you can check them out using the matching version of WebSphere Business Modeler.

Recovering files from a failed workspace migration

A failure during workspace migration can occur either before or after the workspace is backed up. When a migration fails before the workspace is backed up, the failure usually indicates that there was not enough disk space available to complete the backup. You can retry the migration with a different backup location.

If the failure occurs after the workspace was backed up, you must restore the entire workspace before proceeding.

To recover your files from the backup workspace, complete the following steps:

1. Transfer the backup workspace to an empty directory:
 - If the backup workspace is stored in a ZIP file, extract this file to an empty directory.
 - If the backup workspace is not stored in a ZIP file, copy the backup workspace to another location. To preserve the backup for possible future use, it is preferable to copy rather than move the backup.
2. Run the earlier version of WebSphere Business Modeler.
3. When you are asked to specify a workspace for your work session, specify the workspace that you created from your backup.
4. Click **OK**. WebSphere Business Modeler starts and opens the workspace.

The workspace is recovered.

Tip: When you do the migration again, try migrating your projects one at a time instead of migrating the entire workspace. Export each project into its own file using the Export wizard. Then, follow the instructions in “Importing projects exported from Version 6.0.x, and 6.1.x” on page 98 to import the files into WebSphere Business Modeler Version 6.1.2.

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