

IBM Rational Developer for System z



Installation Guide

Version 7.1

IBM Rational Developer for System z



Installation Guide

Version 7.1

Note!

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 63.

First edition (September 2007)

This edition applies to IBM Rational Developer for System z Version 7.1 (program number 5724-T07) and to all subsequent releases and modifications until otherwise indicated in new editions.

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About this book

This installation guide provides instructions for installing and uninstalling IBM Rational Developer for System z Version 7.1.

This document contains information on the following tasks:

- Preparing for installation
- Installing Developer for System z
- Installing required and optional workstation software
- Installing System z™ server tools
- Recognizing known problems and limitations with installation

From here on, the following names are used in this manual:

- *IBM Rational Developer for System z* is called *Developer for System z*
- *IBM Rational Developer for System z Common Access Repository Manager* is called *Common Access Repository Manager*, sometimes abbreviated to *CARMA*

Note: The configuration information found in this document is for IBM Rational Developer for System z Version 7.1.

Who should read this book

This book is intended for programmers installing and configuring IBM Rational Developer for System z Version 7.1 client on their workstation. To use this book, you need to be familiar with the Windows® operating system.

IBM Rational Developer for System z Version 7.1 Installation Guide

Where to find more information about Developer for System z

This file does not contain information about using Developer for System z. Refer to the online help for that information.

For information about product problems and limitations, refer to the `readme.html` file located in the `Documents\en` directory of the CD *IBM Rational Developer for System z and IBM® Rational® Application Developer Installation CD 1*.

See the Library page of the Developer for System z website: <http://www-306.ibm.com/software/awdtools/devzseries/library> for updated documentation and troubleshooting information.

Introduction to Developer for System z

Developer for System z has a host component and a workstation client component. The host component is typically installed by a site's system programmer and is transparent to the application programmers. For the remainder of this guide, unless the host component is specifically called out, the term Developer for System z will refer to the workstation component of the tool - the graphical user interface powered by the Eclipse platform.

Developer for System z is a set of development tools that extend the Rational Application Developer offering which itself is built on the Eclipse platform (www.eclipse.org). Think of the Eclipse platform as the framework and infrastructure provider and Rational Application Developer and Developer for System z as the tool contributors.

IBM Installation Manager

IBM Installation Manager is a program that installs the IBM Rational Application Developer and Developer for System z product packages on your workstation. It also updates, modifies, and uninstalls these 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 with the Installation Manager.

Regardless of which installation method you follow to install Developer for System z on your workstation, you will use Installation Manager to install the package. An Installation Wizard is also provided. This wizard guides you through any setup tasks that are required prior to installing Developer for System z. When the setup tasks are complete and you are ready to install Developer for System z, the Installation Wizard launches the Installation Manager for you.

The Installation Manager is an installation management tool that offers a number of time-saving features. It helps you install, update, modify, and uninstall product packages on your computer. It keeps track of what you are about to install, as well as what you have already installed and what is available for you to install. It searches for updates so you know that you are installing the latest version of a package. It also provides tools for managing licenses for the packages it installs, and for updating and modifying packages.

There are six wizards in Installation Manager that make it easy to maintain your package through its lifecycle:

- The Install Packages wizard walks you through the installation process. You can install a package by simply accepting the defaults, or you can modify the default settings to create a custom installation. Before you install, you are provided with a complete summary of your selections throughout the wizard. Using the wizard you can install one or more packages at one time.
- The Update Packages wizard searches for available updates to packages you have installed. An update might be a fix that was released, 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.
- The modify Packages wizard modifies certain elements of a package you have already installed. During your first installation of the 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 package. You can also remove features, and add or remove languages.
- The Roll Back Packages wizard allows you to uninstall updates you have installed for a product and revert back to a previous version of that product.
- The Manage Licenses wizard helps 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.
- The Uninstall Packages wizard removes a package from your computer. You can uninstall more than one package at a time.

Client Installation requirements

To prepare for installation, you need to complete the following activities:

- Meeting media requirements
- Meeting hardware and software requirements

Meeting media requirements

You must have access to either of the following media to install Developer for System z on the workstation:

- Developer for System z installation CDs:
 - *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 1*
 - *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 2*
 - *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 3*
 - *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 4*
 - *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 5*
 - *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 6*
 - *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 7*
 - *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 8*

- *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 9*
- *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 10*
- *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 11*
- *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 12*
- *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 13*
- *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 14*
- *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 15*
- *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 16*
- *IBM Rational Developer for System z and IBM Rational Application Developer Product Activation Kit CD*
- IBM Rational Developer for System z electronic images

Once you have downloaded the Developer for System z images from Passport Advantage® and expanded them, the following directories apply to installing Developer for System z on the workstation:

 - DISK1
 - DISK2
 - DISK3
 - DISK4
 - DISK5
 - DISK6
 - DISK7
 - DISK8
 - DISK9
 - DISK10
 - DISK11
 - DISK12
 - DISK13
 - DISK14
 - DISK15
 - DISK16
 - RDz-RAD-License

You must also have access to either of the following media to install required System z server tools on the System z host:

- IBM Rational Developer for System z:
 - *IBM Rational Developer for System z Server Tools CD*
- IBM Rational Developer for System z electronic image

Once you have downloaded the Developer for System z images from Passport Advantage and expanded them, the following directory applies to installing required software on the System z host:

– Server Tools

See the *IBM Rational Developer for System z Host Planning Guide (GI11-8296-00)* , the *Program Directory for IBM Rational Developer for System z (GI11-8298-00)*, and the *IBM Rational Developer for System z Host Configuration Guide (SC31-6930)* for details on installing required System z server tools.

In the remainder of this document, you can match references to CDs with references to electronic image directories as shown in the following table:

Table 1.

CD Name	Electronic Image Directory Name
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 1</i>	DISK1
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 2</i>	DISK2
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 3</i>	DISK3
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 4</i>	DISK4
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 5</i>	DISK5
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 6</i>	DISK6
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 7</i>	DISK7
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 8</i>	DISK8
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 9</i>	DISK9
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 10</i>	DISK10
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 11</i>	DISK11
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 12</i>	DISK12
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 13</i>	DISK13
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 14</i>	DISK14
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 15</i>	DISK15
<i>IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 16</i>	DISK16
<i>IBM Rational Developer for System z Server Tools CD</i>	ServerTools
<i>IBM Rational Developer for System z and IBM Rational Application Developer Product Activation Kit CD</i>	RDz-RAD-License

Meeting hardware and software requirements

The following information on hardware and software requirements for Developer for System z, is also available in *Prerequisites for IBM Rational Developer for System z*. A copy of this document is available in the root directory of *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 1*.

Note: User authorization can affect your ability to perform the installation. You must have administrator authority to install this product on your workstation.

Client Prerequisites for IBM Rational Developer for System z

IBM Rational Developer for System z (Developer for System z) is a licensed program to support users who wish to write large-scale business applications.

There are prerequisites and corequisites for using this software.

Hardware Requirements: Verify that you meet the minimum hard disk space requirements to install the product. . The following table provides an account of space requirements according to each aspect of the installation process.

Hardware	Requirements
Processor	800 MHz Pentium(R) III or higher
Memory	Minimum: 1 GB RAM
Disk space	Minimum 2 GB of disk space is required to install the product. Additional disk space is required for the resources that you develop. <ul style="list-style-type: none">• Disk space requirements can be reduced depending on the features that you install.• Additional disk space is required if you download the electronic image to install the product.• Additional disk space is required if you use FAT32 instead of NTFS.• An additional 650 MB of disk space is required in the TEMP directory.
Display	1024 x 768 display minimum using 256 Colors (Higher is recommended)
Other hardware	Microsoft® mouse or compatible pointing device

Software Requirements: Before you can install the product, verify that your system meets the software requirements.

Operating Systems

The following operating systems are supported for this product:

Product Name	PTF's or Service Levels Required
Windows XP Professional	Service Pack 2
Windows Server 2003 Enterprise Edition	Service Pack 1
Windows Server 2003 Standard Edition	Service Pack 1
Windows Vista Business	No Service Level Required
Windows Vista Enterprise	No Service Level Required
Windows Vista Ultimate	No Service Level Required

Additional Notes®:

1. The above listed operating systems support all of the national languages that are supported by Developer for System z.
2. Important: To enable users who do not have Administrator privileges to work with Developer for System z and Rational Application Developer on a Windows Vista system, do not install inside the Program Files directory (C:\Program Files\).
3. Developer for System z was developed for use with an Eclipse IDE of version 3.2.2 or greater that uses at least version 1.5 of the IBM Java™ Development Kit (JDK). You may only extend an existing Eclipse IDE that meets these requirements.
4. Developer for System z is compatible with Vista but does not take full advantage of the new capabilities within Vista.
5. you must install using an Administrator id when installing Developer for System z Microsoft Vista operating systems.

Additional Software Requirements: Developer for System z requires the following to be installed as a prerequisite to installation.

Note: For information about supported database servers, Web application servers, and other software products, refer to the online help.

1. Rational Application Developer or IBM Rational Software Architect

Developer for System z requires either the IBM Rational Application Developer 7.0.0.3 offering or the IBM Rational Software Architect 7.0.0.3 offering to be installed as a prerequisite to installation.

Program Number	Product Name	PTF's or Service Levels Required
5724-J19	IBM Rational Application Developer V 7.0.0.3	No PTF or Service Level Required
5724-I70	IBM Rational Software Architect V 7.0.0.3	No PTF or Service Level Required

Additional Notes:

- a. IBM Rational Application Developer 7.0.0.3 is included on the Rational Developer for System z installation media, and the Installation Wizard will guide you through the installation of IBM Rational Application Developer 7.0.0.3 and Rational Developer for System z 7.1 simultaneously.
- b. If you already have IBM Rational Application Developer or Rational Software Architect installed on your system, you will need to update your existing installation to version 7.0.0.3 prior to installing Rational Developer for System z 7.1. Additionally, the features listed below are required by Rational Developer for System z and must be installed before Rational Developer for System z can be installed. If any of the required features are not installed, you will need to modify your existing installation to include them before installing Rational Developer for System z.
- c.
 - If you have IBM Rational Application Developer installed, the following features are required:
 - Web Development Tools
 - J2EE and Web services development tools
 - Test and Performance Tools Platform (TPTP)

- J2EE Connector (J2C) tools
- Transformation authoring
- Plug-in Development Environment (PDE)
- Data tools
- WebSphere(R) Application Server development tools
- WebSphere(R) Application Server compile-time dependencies
- If you have Rational Software Architect installed, the following features are required:
 - UML Modeling
 - UML-to-UML transformations and patterns
 - J2EE and Web services development tools
 - Web Development Tools
 - J2EE Connector (J2C) tools
 - Test and Performance Tools Platform (TPTP)
 - Plug-in Development Environment (PDE)
 - Data tools
 - WebSphere® Application Server development tools
 - WebSphere Application Server compile-time dependencies

Note:

If you are unsure of what is currently installed on your system, Installation Manager provides an information page that will show you what you have installed.

- d. The Installation Wizard will inform you of any modifications or updates that need to be made to your existing installations and guide you through the completion of the required tasks. Alternatively, you can always choose to install IBM Rational Application Developer 7.0.0.3 again, along with Rational Developer for System z, into a new package group without affecting your existing installations.
- e. The related product website is:
<http://www-306.ibm.com/software/awdtools/developer/application/>

2. TXSeries® for Multiplatforms v 6.1

One of the following levels must be installed to support applications with embedded CICS® statements:

Program Number	Product Name	PTF's or Service Levels Required
5655-M15	TXSeries for Multiplatforms v 6.1	IZ00893

Additional Notes:

- a. The related product website is:
<http://www-306.ibm.com/software/http/cics/tserver/>

3. DB2® Enterprise Server Edition for Windows

One of the following levels must be installed to support applications with embedded CICS statements:

Program Number	Product Name	PTF's or Service Levels Required
5765-F41	DB2 Enterprise Server Edition v 9.1 for Windows	

Additional Notes:

- a. The related product website is:

<http://www-306.ibm.com/software/data/db2/9/>

4. Web Browser

One of the following web browsers must be installed to view the readme files and the installation guide

Product Name	PTF's or Service Levels Required
Microsoft Internet Explorer 6.0	Service Pack 1
Mozilla 1.6 or 1.7	all available maintenance
Firefox 1.0.x or 1.5	all available maintenance

5. Adobe Flash Player

The following must be installed on t properly view multimedia user assistance, such as Tours, Tutorials, and Show me viewlets..

Product Name	PTF's or Service Levels Required
Adobe Flash Player Version 6.0 r65 or later	all available maintenance

6. Adobe Reader

The following must be installed on t properly view product documentation PDFs..

Product Name	PTF's or Service Levels Required
Adobe Reader Version 7.0 or later	all available maintenance

User privileges requirements: You must have a user ID that meets the following requirements before you install IBM Rational Application Developer and IBM Rational Developer for System z.

- Your user ID must not contain double-byte characters.
- 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 Developer for System z)
 - Install or update a product offering.
 - Install an Authorized-User license key for your product. You use IBM Installation Manager to install license keys.

Note: To enable users who are not the Administrator to work with Developer for System z on a Windows Vista system:

- Do not install Developer for System z 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.
- If you are extending an existing Eclipse installation, then do not install Eclipse in the Program Files directory (C:\Program Files\).
- For other supported Windows versions, you must have a user ID that belongs to the Administrators group.

Planning to install

Read all topics in this section before attempting to install any of the product features. Many problems may be avoided by proper planning and understanding the key aspects of the installation process before actually beginning installation.

Installation methods

There are a number of methods that you might use when installing Developer for System z.

Some factors that might determine the installation method you use are:

- The format and method by which you access your installation files. (For example, from CD or files downloaded from IBM Passport Advantage(R).)
- If you are installing onto your own workstation, or if you are making the installation files available to your enterprise.
- If you will install using the Installation Manager GUI, or if you will install silently.

The typical installation methods you might use are:

- Installing from the installation CD-ROMs.
- 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 server.

Note that with the latter three methods you could choose to run the Installation Manager program in silent mode to install IBM Rational Application Developer and Developer for System z. For details on running Installation Manager in silent mode, see “Installing silently” on page 45.

Installing from the CD-ROM

With this method, you have the CD-ROM disks containing the installation files, and typically you are installing IBM Rational Application Developer and IBM Rational Developer for System z on your own workstation. Refer to “Installing IBM Rational Developer for System z from a CD-ROM - task overview” on page 14 for an overview of the steps.

Installing from a downloaded electronic image on your workstation

With this method, you have downloaded the installation files from IBM Passport Advantage and you will install IBM Rational Application Developer and IBM Rational Developer for System z on your own workstation. Refer to “Installing IBM Rational Developer for System z from an electronic image on your workstation - task overview” on page 14 for an overview of the steps.

Installing from an electronic image on a shared drive

With this method, you will place the electronic image on a shared drive so that users in your enterprise can access the installation files for IBM Rational Application Developer and IBM Rational Developer for System z from a single location. Refer to “Installing IBM Rational Developer for System z from an electronic image on a shared drive - task overview” on page 15 for an overview of the steps.

Installing from a repository on an HTTP server

This method provides the fastest way to install across a network. This differs from the previous method because, in order to place installation files for IBM Rational Application Developer and IBM Rational Developer for System z on a HTTP Web server, you must use a utility application - IBM Packaging Utility - provided with IBM Rational Application Developer to copy the installation files in a package format that can be used for installing IBM Rational Application Developer and IBM Rational Developer for System z directly from a HTTP Web server. The directory on the HTTP Web server containing the package is called a repository. The same repository can also be used for other products, as well as future service updates. Refer to “Installing IBM Rational Developer for System z from a repository on a HTTP Web server - task overview” on page 16 and “Placing IBM Rational Developer for System z on an HTTP Web server - task overview” on page 17 for an overview of the steps.

Deciding which features to install

With Version 7.1, you can customize your installation by selecting which features of IBM Rational Developer for System z to install.

When you install the IBM Rational Developer for System z package using IBM Installation Manager, the installation wizard displays the features in the package and you can select which features to install. A recommended set of features is selected by default (including any required features). Installation Manager automatically enforces any dependencies between features and prevents you from clearing any required features.

Note that once you finish installing the package, you can still add or remove features from your installation by running the Modify Packages wizard in Installation Manager. See “Modifying installations” on page 57 for more information.

Features

The following table shows the features of IBM Rational Developer for System z that you can choose to install. Default selections of features to install may vary. If a feature already exists in your shared resources directory and it is selected to be installed, it will not be installed again. For information about the available features of IBM Rational Application Developer, see the *IBM Rational Application Developer Installation Guide*.

Table 2.

Feature	Description	Selected for installation by default
System z Integrated Development Environment (required)	Provides an interactive, workstation-based environment where you can develop mainframe applications in Assembler, COBOL, PL/I, and C++, and workstation-based applications in COBOL and PL/I.	Yes
Application Deployment Manager	Provides a common deployment approach and deployment application programming interface for all IBM Rational Developer for System z components producing or generating artifacts.	Yes
BMS Editor	Enables you to visually create and modify Basic Mapping Support (BMS) map sets. It is designed for CICS developers who are familiar with terminal-based tools (for example, SDF II) or GUI-based tools, such as the BMS editor included with VA COBOL.	Yes
MFS Editor	Enables you to create and modify Message Format Service (MFS) message and format files. Many Information Management System (IMS(TM)) programs are based on MFS, which is an IMS™ Transaction Manager environment facility that formats messages to and from terminal devices.	Yes
Common Access Repository Manager (CARMA)	Provides a unified interface and set of services for accessing System z-based source control management tools. CARMA also provides a generic graphical user interface (GUI) client that can be used as a framework for accessing and interfacing with custom source control management systems.	Yes
SCLM Developer Toolkit	Provides Software Configuration and Library Manager (SCLM) access from base Eclipse or from IBM Rational Developer for System z.	Yes

Table 2. (continued)

Feature	Description	Selected for installation by default
Enterprise Service Tools	Combines the functionality previously offered in the Service Flow Modeler (SFM) and XML Services for the Enterprise (XSE). Enterprise Service Tools (EST) provide an integrated set of tools that support modern application architectures and the transformation and reuse of existing application processes. The tools support generation of Web service descriptions and service and flow processing artifacts directly to a z/OS(R) system. EST enables the move towards service-oriented architecture (SOA).	Yes
File Manager	Provides IBM File Manager for z/OS® capabilities, including a formatted edit session with multiple views of the data of many dataset types, to Rational Developer for System z. Note: This feature requires that you have a license for IBM File Manager for z/OS.	Yes
Fault Analyzer	Enables you to work with fault entries created by IBM Fault Analyzer for z/OS during real-time analysis of abending programs. Note: This feature requires that you have a license for IBM Fault Analyzer for z/OS	Yes

Migrating WebSphere Developer for zSeries workspaces to IBM Rational Developer for System z Version 7.1

If you have a workspace you used in WebSphere Developer for zSeries 6.0.1, and you want to migrate the workspace for use with IBM Rational Developer for System z 7.1, you must follow these steps.

1. Install IBM Rational Developer for System z 7.1.
2. Start IBM Rational Developer for System z, specifying the name of the workspace you are migrating from WebSphere Developer for zSeries 6.0.1. The old workspace is migrated so that all the old artifacts are present and appear in the new workspace.

Migrating WebSphere Studio Enterprise Developer 5.1.1 and 5.1.2 workspaces to IBM Rational Developer for System z Version 7.1

If you have a workspace you used in WebSphere Studio Enterprise Developer 5.1.1 or 5.1.2, and you want to migrate the workspace for use with IBM Rational Developer for System z 7.1, you must follow these steps.

Note: Be sure you still have WebSphere Studio Enterprise Developer 5.1.1 or 5.1.2 installed on your workstation.

1. Get a copy of plugin com.ibm.ftt.ui.migration (in CD 1, directory \WSED51xMigration), and add it to your existing WebSphere Studio Enterprise Developer 5.1.1 or 5.1.2 system. Add the plugin by copying the com.ibm.ftt.ui.migration directory to the install_directory\wstools\eclipse\plugins directory on your machine.
2. Start WebSphere Studio Enterprise Developer 5.1.1 or 5.1.2.
3. Select **Window -> Reset Perspective**. You should see an action bar menu **Migration** in the action bar.
4. Select **Migration -> Prepare for Migration**. A message appears and warns you that this action will make your workspace unusable on WebSphere Studio Enterprise Developer 5.1.1 or 5.1.2. You are asked if you want to continue.
5. Confirm that you want to continue. A message is displayed informing you that a copy of the workspace has been saved and that the old workspace should now be used on a IBM Rational Developer for System z system where the migration will be completed.
6. Uninstall WebSphere Studio Enterprise Developer 5.1.1 or 5.1.2 and install IBM Rational Developer for System z 7.1.
7. Start IBM Rational Developer for System z 7.1, specifying the name of the workspace you are migrating from WebSphere Studio Enterprise Developer 5.1.1 or 5.1.2. The old workspace is migrated so that all the old artifacts are present and appear in the new workspace.

Extracting and verifying electronic images

If you download the installation files from IBM Passport Advantage, you must extract the electronic image from the compressed files before you can install IBM Rational Application Developer and IBM Rational Developer for System z. You may want to verify the completeness of the downloaded files before extracting the image.

Preinstallation tasks

Before you install the product, complete the steps listed below.

1. Confirm that your system meets the requirements described in the section Installation requirements.
2. Confirm that the directory pointed to by your environment variable TEMP (on Windows systems) has at least 650 MB free. This is in addition to the space required for installing the product.
3. Confirm that your user ID meets the required access privileges for installing the product. See “User privileges requirements” on page 8.
4. Read, the section Planning to install and give particular attention to the topic Migration, upgrade and coexistence considerations.

Installation tasks

The following sections provide an overview of the installation scenarios described in the section Installation scenarios. Detailed instructions, when necessary, are linked to the main steps.

Installing IBM Rational Developer for System z from a CD-ROM - task overview

In this installation scenario, you have the CD-ROM disks containing the installation files, and typically you are installing IBM Rational Application Developer and IBM Rational Developer for System z on your own workstation.

The general steps for installing from a CD-ROM are:

1. Complete the pre-installation steps listed in Preinstallation tasks.
2. Insert the *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 1* into your CD-ROM drive.
3. If autorun is enabled on your system, the IBM Rational Developer for System z launchpad program automatically opens. If autorun is not enabled, start the launchpad program. Refer to “Installing from the launchpad program” on page 20 for details.
4. Start the installation of IBM Rational Developer for System z from the launchpad. For details, see “Starting an installation from the launchpad” on page 21.
5. Follow the on-screen instructions in the IBM Rational Developer for System z Installation Wizard. The Installation Wizard guides you through any setup tasks that may be required before the installation. When applicable, Installation Manager is launched to allow you to complete the required tasks. The actual installation of Developer for System z is performed by Installation Manager. See “Using the IBM Rational Developer for System z Installation Wizard” on page 22 for more information.

If Installation Manager is not detected on your workstation, you are prompted to install it. Follow the on-screen instructions in the Installation Manager wizard to complete the installation of Installation Manager. See “Installing Installation Manager” on page 17 for details.

When the installation of Installation Manager completes, or if it is already on your system, Installation Manager starts and automatically begins the Install Packages wizard.

6. Follow the on-screen instructions in the Install Packages wizard to complete the installation. The steps to complete the installation may vary depending on your installation scenario. For complete details, see “Determining the correct installation steps for your scenario” on page 23.
7. Initially, trial licenses for IBM Rational Application Developer and IBM Rational Developer for System z are installed. You must import the IBM Rational Application Developer product activation kit and the IBM Rational Developer for System z activation kit to upgrade your trial licenses to a permanent licenses and ensure you have continued access to work with the product. Refer to “Managing licenses” on page 55 for details. If you have an existing IBM Rational Application Developer or Rational Software Architect installation and have already installed a permanent license, you do not need to install it again for that product.
8. Install additional software included with IBM Rational Developer for System z. For more information, see “Installing additional software” on page 59.

Installing IBM Rational Developer for System z from an electronic image on your workstation - task overview

The general steps for installing IBM Rational Application Developer and IBM Rational Developer for System z 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 “Hardware Requirements” on page 5.
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 files and verify the installation image is complete. See “Extracting and verifying electronic images” on page 13 for details.
4. Continue with the steps in “Installing from an electronic image” below.

Installing from an electronic image

1. Complete the pre-installation steps listed in Preinstallation tasks.
2. Start the launchpad program. Refer to “Installing from the launchpad program” on page 20 for details.
3. Start the installation of IBM Rational Developer for System z from the launchpad. For details, see “Starting an installation from the launchpad” on page 21.
4. Follow the on-screen instructions in the IBM Rational Developer for System z Installation Wizard. The Installation Wizard guides you through any setup tasks that may be required before the installation. When applicable, IBM Installation Manager is launched to allow you to complete the required tasks. The actual installation of Developer for System z is performed by IBM Installation Manager. See “Using the IBM Rational Developer for System z Installation Wizard” on page 22 for more information.

If IBM Installation manager is not detected on your workstation, you are prompted to install it. Follow the on-screen instructions in the Installation Manager wizard to complete the installation of Installation Manager. See “Installing Installation Manager” on page 17 for details.

When the installation of Installation Manager completes, or if it is already on your system, Installation Manager starts and automatically begins the Install Packages wizard.

5. Follow the on-screen instructions in the Install Packages wizard to complete the installation. The steps to complete the installation may vary depending on your installation scenario. For complete details, see “Determining the correct installation steps for your scenario” on page 23.
6. Configure your product licenses. Initially, trial licenses for IBM Rational Application Developer and IBM Rational Developer for System z are installed. You must import the IBM Rational Application Developer product activation kit and the IBM Rational Developer for System z activation kit to upgrade your trial licenses to a permanent licenses and ensure you have continued access to work with the product. Refer to “Managing licenses” on page 55 for details. If you have an existing IBM Rational Application Developer or Rational Software Architect installation and have already installed a permanent license, you do not need to install it again for that product.
7. Install additional software included with IBM Rational Developer for System z. For more information, see “Installing additional software” on page 59.

Installing IBM Rational Developer for System z 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 IBM Rational Application

Developer and IBM Rational Developer for System z from a single location. The following steps are performed by the person placing 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 “Hardware Requirements” on page 5 for details.
2. Download all required parts for the product image from IBM Passport Advantage to a temporary directory on the shared drive. Note that you could choose instead download the parts to your workstation and copy only the extracted installation image to the shared drive.
3. Extract the installation image from the downloaded files into an accessible directory on the shared drive and verify the installation image is complete. See “Extracting and verifying electronic images” on page 13 for details

To install IBM Rational Application Developer and IBM Rational Developer for System z 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 15.

Installing IBM Rational Developer for System z from a repository on a HTTP Web server - task overview

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

These steps assume the repository containing the packages for IBM Rational Application Developer and IBM Rational Developer for System z has been created on the HTTP Web server. Refer to “Placing IBM Rational Developer for System z on an HTTP Web server - task overview” on page 17 for details on copying the installation packages to an HTTP Web server.

To install the IBM Rational Application Developer and IBM Rational Developer for System z packages from a repository on an HTTP server:

1. Complete the pre-installation steps listed in Preinstallation tasks.
2. Install IBM Installation Manager. Refer to “Installing Installation Manager” on page 17.
3. Start Installation Manager. Refer to “Starting Installation Manager” on page 18 for details.
4. Set the URL of the repository containing the packages of IBM Rational Application Developer and IBM Rational Developer for System z packages as a repository preference in Installation Manager. See “Setting repository preferences in Installation Manager” on page 18.
5. Click **Install Packages** to start the Install Packages wizard in Installation Manager, and follow the on-screen instructions in the Install Packages wizard to complete the installation. The steps to complete the installation may vary depending on your installation scenario. For complete details, see “Determining the correct installation steps for your scenario” on page 23.
6. Configure your product licenses. Initially, trial licenses for IBM Rational Application Developer and IBM Rational Developer for System z are installed. You must import the IBM Rational Application Developer product activation kit and the IBM Rational Developer for System z activation kit to upgrade your trial licenses to a permanent licenses and ensure you have continued access to

work with the product. Refer to “Managing licenses” on page 55. If you have an existing IBM Rational Application Developer or Rational Software Architect installation and have already installed a permanent license, you do not need to install it again for that product.

7. Install additional software included with IBM Rational Developer for System z. For more information, see “Installing additional software” on page 59.

Placing IBM Rational Developer for System z on an HTTP Web server - task overview

You can place the IBM Rational Application Developer and IBM Rational Developer for System z install packages on an HTTP Web server by using the IBM Packaging Utility to create an installation repository or copy to an existing repository. Refer to “Copying packages to a HTTP server using the Packaging Utility” on page 54 for details on using the Packaging Utility to create an installation repository. Once you have created your repository, you can:

1. Provide users in your enterprise with the URL of the installation package repository.
2. Use the repository to perform silent installations. Refer to “Installing silently” on page 45 for details on running silent installations.

Managing Installation Manager

Installing Installation Manager

IBM Installation Manager is typically started by the Developer for System z Installation Wizard. For more information on this process, refer to “Installing from the launchpad program” on page 20.

You can install IBM Installation Manager by running the `install_win32.exe` program located at the root of CD1. To install the Installation Manager manually:

1. Review the license agreement on the License Agreement page and select I accept the terms in the license agreement to accept. Click **Next**.
2. Click the Change button on the Destination Folder page to change the install location if desired. Click **Next**.
3. Click **Next** on the Setup Type page.
4. Click **Install** on the Ready to Install Program page. The Completed page appears after the installation is complete.
5. Click **Finish**.

You can also perform a silent installation of the Installation Manager using the following steps:

1. Insert the *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 1*.
2. If you want to make the Installation Manager installer available to other users on your network, copy the contents of the `InstallerImage_win32` folder from the CD to a shared location on your network.
3. Run the following command, either from the IBM Rational Developer for System z CD1 or from the shared network location to which you copied the installation files.

Substitute your desired installation location for the value of the `INSTALLDIR` parameter:

```
Setup.exe /S /v"/qn INSTALLDIR="C:\Program  
Files\IBM\Installation Manager\""
```

Starting Installation Manager

The IBM Installation Manager should be started automatically by the Developer for System z Installation Wizard. This starts the Installation Manager with the correct repository preferences for installing the IBM Rational Application Developer and IBM Rational Developer for System z packages. If you start the Installation Manager directly, then you must set repository preference and choose product packages manually. To start the Installation Manager manually:

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

Uninstalling Installation Manager

The IBM Installation Manager must be uninstalled using the Add or Remove Programs program.

1. Open the Start menu from the Taskbar.
2. Select **Control Panel -> Add or Remove Programs -> IBM Installation Manager**.
3. Click the **Remove** button and follow the instructions provided by the operating system.

Note: You cannot uninstall IBM Installation Manager until all packages have been uninstalled.

Installation repositories

Installation Manager retrieves product packages from specified repository locations.

If Installation Manager is started by the LaunchPad or the Installation Wizard, the repository information is passed to Installation Manager. If the Installation Manager is started by itself, you must specify an installation repository that contains the product packages that you want to install.

Some organizations may bundle and host their own product packages within their intranet. For this type of business case scenario, see “Installing from a repository on an HTTP server” on page 10. 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 through the Internet and search for installable packages as well as new features.

Setting repository preferences in Installation Manager

When you start the installation of IBM Rational Application Developer and IBM Rational Developer for System z from the launchpad program or Installation Wizard, the location of the repository containing the package you are installing is automatically defined in Installation Manager when it starts. However, if you start Installation Manager directly, for example to install IBM Rational Developer for System z and IBM Rational Application Developer from a repository located on a Web server, then you must set the repository preference (the URL for the directory containing the package) in Installation Manager before you can install the package. This is done on the Repositories page of the Preferences window. By default, IBM

Installation Manager uses an embedded URL in each Rational software development product to connect to a repository server through the Internet and search for installable packages, updates 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 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 or not they are accessible.
3. On the Repositories page, click **Add Repository**.
4. On the Add repository window, enter the URL of the repository location or browse to it and enter a file path, and then click **OK**. The new or changed repository location is listed. If the repository is not accessible, a red x is displayed in the Accessible column.
5. Click **OK** to exit.

Package groups and the shared resource directory

When you install the IBM Rational Application Developer and IBM Rational Developer for System z packages with 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 IBM Rational Application Developer and IBM Rational Developer for System z packages. A package group represents a directory in which packages share resources with other packages in the same group. When you install the IBM Rational Application Developer and IBM Rational Developer for System z packages with Installation Manager, you can choose to 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.

Important: To enable users who do not have Administrator privileges to work with Developer for System z in the Windows Vista operating system, do not choose an installation directory inside the Program Files directory (C:\Program Files\).

Once you create the package group by successfully installing a package, you cannot change the installation directory. The installation directory contains files and resources specific to the packages installed into that package group. Resources in the packages that can potentially be used by other package groups are placed in the shared resources directory.

Shared resources directory

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

Important: You can specify the shared resources directory once: the first time that you install a package. For best results, use your largest drive for this. You cannot change the directory location unless you uninstall all packages.

Important: To enable users who do not have Administrator privileges to work with Rational Developer for System z on a Windows Vista system, do not choose a directory inside the Program Files directory (C:\Program Files\).

Extending an existing Eclipse IDE

When you install the IBM Rational Application Developer and IBM Rational Developer for System z packages, you may choose to extend an Eclipse integrated development environment (IDE) already installed on your system by adding the functionality contained in the IBM Rational Application Developer and IBM Rational Developer for System z packages.

The IBM Rational Application Developer package that you install with IBM Installation Manager is bundled with a version of the Eclipse IDE or workbench. This bundled workbench is the base platform for providing the functionality in the Installation Manager package. However, if you have an existing Eclipse IDE on your workstation, then you have the option to extend - add to the IDE the additional functionality provided in the Installation Manager package - that Eclipse instance.

Select the **Extend an existing Eclipse IDE** option on the Location page of the Install Packages wizard to extend an existing Eclipse IDE.

Important: To enable users who do not have Administrator privileges to work with Rational Developer for System z in the Windows Vista operating system, do not install Eclipse inside the Program Files directory (C:\Program Files\)

You might extend your existing Eclipse IDE, for example, because you want to gain the functionality provided in the Installation Manager package, but you also want to have the preferences and settings in your current IDE when you work with the functionality from the Installation Manager package. You also might want to work with plug-ins you have installed that already extend the Eclipse IDE.

Your existing Eclipse IDE must be version 3.2.2 and must use at least version 1.5 of the IBM Java Development Kit (JDK) to be extended. Installation Manager checks that the Eclipse instance you specify meets the requirements for the installation package.

Installing from the launchpad program

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

Use the launchpad program to start the installation of IBM Rational Application Developer and IBM Rational Developer for System z in the following cases:

- You are installing from the product CDs.
- You are installing from an electronic image on your workstation.
- You are installing from an electronic image on a shared drive.

By starting the installation process from the launchpad program, the IBM Rational Developer for System z Installation Wizard starts IBM Installation Manager preconfigured with the location of the repository containing the IBM Rational Application Developer and IBM Rational Developer for System z packages. If you install and start Installation Manager directly, then you must set the repository preference manually.

To install from the launchpad:

1. Complete the preinstallation tasks described in Preinstallation tasks, if you have not done so already.
2. Start the launchpad program. See “Starting an installation from the launchpad.”
3. Start the Developer for System z Installation Wizard by clicking on the Install IBM Rational Developer for System z link. See “Using the IBM Rational Developer for System z Installation Wizard” on page 22 for more information.
4. Follow the instructions on the Installation Wizard panels
5. When you are ready to begin the installation, the Installation Wizard automatically launches IBM Installation Manager. Follow the on-screen instructions on the Installation Manager panels to complete the installation. The steps to complete the installation may vary depending on your installation scenario. For complete details, see “Determining the correct installation steps for your scenario” on page 23.

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

Starting an installation from the launchpad

Complete the preinstallation tasks described in Preinstallation tasks, if you have not done so already.

If you are installing from a CD and autorun is enabled on your workstation, then the IBM Rational Developer for System z launchpad starts automatically when you insert the first installation disk into your CD drive. If you are installing from an electronic image, or if auto-run is not configured on your workstation, then you must start the launchpad program manually. To start the launchpad:

1. Insert the *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 1* into your CD drive.
2. If auto-run is enabled on your system, the IBM Rational Application Developer and IBM Rational Developer for System z launchpad program automatically opens. If auto-run is not enabled on your system:
 - Run `RDzInstallLaunchpad.exe` located in the root directory of the CD.
3. If you have not done so already, read the release information by clicking Release notes.
4. When you are ready to begin the installation, click **Install IBM Rational Developer for System z**.
5. The Developer for System z Installation Wizard starts. Follow the instructions on the Installation Wizard panels to complete any setup tasks that are required before you proceed with the installation. See “Using the IBM Rational Developer for System z Installation Wizard” on page 22 for more information.
6. When you are ready to begin the installation, the Installation Wizard launches Installation Manager. Follow the on-screen instructions in the Install Packages wizard to complete the installation. The steps to complete the installation may vary depending on your installation scenario. For complete details, see

“Determining the correct installation steps for your scenario” on page 23. If IBM Installation Manager is not detected on your system, you will be prompted to install it. See “Installing Installation Manager” on page 17 for more information.

7. Configure your product licenses. Initially, trial licenses for IBM Rational Application Developer and IBM Rational Developer for System z are installed. You must import the IBM Rational Application Developer product activation kit and the IBM Rational Developer for System z activation kit to upgrade your trial licenses to a permanent licenses and ensure you have continued access to work with the product. Refer to “Managing licenses” on page 55 for details. If you have an existing IBM Rational Application Developer or Rational Software Architect installation and have already installed a permanent license, you do not need to install it again for that product.

Using the IBM Rational Developer for System z Installation Wizard

When you start the Developer for System z installation from the launchpad, you are presented with the Developer for System z Installation Wizard. The Installation Wizard guides you through the installation setup process and ensures that your machine is properly configured to install IBM Rational Developer for System z. Depending on your current system configuration and installation history, the setup process may involve modifying or updating an existing installation of Rational Application Developer, Rational Software Architect, or WebSphere Developer for System z before you are ready to install IBM Rational Developer for System z v 7.1.

The installation itself, as well as any required modification and update tasks, are performed by IBM Installation Manager. The Installation Wizard analyzes your system and informs you of any setup tasks that must be performed prior to the Developer for System z installation. When applicable, the Installation Wizard launches IBM Installation Manager to allow you to perform the required setup tasks. At any point, you can click **Help** on the Installation Wizard panels to view the appropriate section of this Installation Guide for further assistance. When you are ready to begin the Developer for System z installation, the Installation Wizard launches IBM Installation Manager.

To use the Rational Developer for System z Installation Wizard:

1. Start the Developer for System z Installation Wizard from the launchpad by clicking on the Install IBM Rational Developer for System z link. See “Starting an installation from the launchpad” on page 21 for more information.
2. Follow the instructions on the Installation Wizard panels to complete any required setup tasks. When applicable, the Installation Wizard launches IBM Installation Manager for you automatically. If at any point you need to start Installation Manager and it is not started for you automatically by the Installation Wizard, you can do so by running the startRDzInstall.bat file located in the root directory of CD1.
3. When you are ready to begin the installation of Developer for System z, the Installation Wizard launches IBM Installation Manager for you automatically so you can proceed with the installation. The steps to complete the installation may vary depending on your installation scenario. See “Determining the correct installation steps for your scenario” on page 23 for more information.

Determining what is currently installed on your system

You may need to determine what package groups, packages, and features are currently installed on your system to determine if you need to modify or update an existing installation before installing Developer for System z. Installation Manager provides a convenient information page that shows you what package groups and packages are currently installed on your system, as well as which features you have installed for each package. You can view this information two ways:

1. From the Windows Start menu, click **Start -> All Programs -> IBM Installation Manager -> View Installed Packages**. This will launch your internet browser and display the Installation Manager installed packages page in the browser window.
2. From within Installation Manager, click **File > View Installed Packages**. This will bring up a new window with the installed packages information. To start Installation Manager, from the Windows Start menu click **Start -> All Programs -> IBM Installation Manager -> IBM Installation Manager**.

Determining the correct installation steps for your scenario

If you have any existing installations of IBM Rational Application Developer 7.0, Rational Software Architect 7.0, or WebSphere Developer for System z Version 7.0 on your system, you may need to modify or update your existing installations before installing IBM Rational Developer for System z Version 7.1.

Developer for System z requires IBM Rational Application Developer version 7.0.0.3 or Rational Software Architect version 7.0.0.3. Additionally, several features of IBM Rational Application Developer or Rational Software Architect are required. If any of the required features were not installed when you initially installed IBM Rational Application Developer or Rational Software Architect, you will be required to modify your existing installation to include these features prior to installing Developer for System z.

If you have an existing installation of WebSphere Developer for System z, IBM Rational Developer for System z Version 7.1 can also be installed as an update to your existing installation rather than as a full product installation.

IBM Rational Developer for System z Version 7.1 includes an Installation Wizard to guide you through the necessary steps to install Developer for System z. You can start the Installation Wizard from the Developer for System z launchpad. See “Starting an installation from the launchpad” on page 21 for details on how to start the Installation Wizard from the launchpad.

The Developer for System z Installation Wizard automatically launches the IBM Installation Manager which performs the actual installation of Developer for System z. If you do not already have IBM Installation Manager installed on your system from a previous product installation, the Developer for System z Installation Wizard launches the IBM Installation Manager installation for you.

Refer to the following sections to determine your installation scenario and the steps required to install Developer for System z. As you go through the installation wizard, you may be prompted to modify or update your existing installations before the Developer for System z installation can proceed. The Help button on the Installation Wizard panels launches your internet browser and takes you to the appropriate section of this document to assist you in completing the required task.

Installing onto a clean system

For the purposes of installing Developer for System z, a system with no prior installations of IBM Rational Application Developer 7.0, Rational Software Architect 7.0, or WebSphere Developer for System z v 7.0 is referred to as a clean system.

Installing Developer for System z onto a clean system is the most basic installation scenario. If you do not already have IBM Installation Manager installed, the Installation Wizard launches the IBM Installation Manager installation for you. Once Installation Manager is installed, it is automatically launched to allow you to proceed with the installation of Developer for System z.

Note: If the Installation Wizard does not automatically start the Installation Manager for you, you can start Installation Manager by running the `startRDzInstall.bat` file located in the root directory of CD1.

When Installation Manager is launched, the Install Packages panel appears with the IBM Rational Application Developer 7.0.0.3 and Developer for System z offerings selected for installation.

The following steps will guide you through the installation of IBM Rational Application Developer 7.0.0.3 and Developer for System z using Installation Manager on a clean system:

1. On the Install Packages panel, select the IBM Rational Application Developer 7.0.0.3 and Developer for System z offerings. You can click on the name of each offering to view more information about it. Information is displayed in the Details section at the bottom of the panel.

When you are ready to continue the installation, click **Next**. Installation Manager gathers information about the packages you have selected and proceeds to the Licenses panel.

2. On the Licenses panel, read the license agreement for the selected packages. There is a license agreement for each package you select to install. On the left side of the License panel, click each package name to display the corresponding license agreement. You may be prompted to update IBM Installation Manager to a newer version if one is available. If prompted, click **Yes** to install the update. Installation Manager updates itself and informs you that it must restart to complete the update. Click **OK** to restart Installation Manager.
 - 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.
3. On the Location panel, type the path for the shared resources directory in the **Shared Resources Directory** field. The shared resources directory contains resources that are shared by one or more package groups, and is where a large portion of the files for all offerings are installed.

Important: You can only specify the shared resources directory the first time that you install a package. Use your largest drive for this to ensure adequate space for the shared resources of future packages.

Important: To enable users who do not have Administrator privileges to work with Developer for System z in the Windows Vista operating system, do not choose a Shared Resources directory inside the Program Files directory (C:\Program Files\).

Note: To change this directory location you must uninstall all packages and re-install the packages, specifying a new shared resources directory. Click **Next** to continue.

4. On the next Location panel you create a new package group to contain your IBM Rational Application Developer and Developer for System z packages. A package group represents a location into which many offerings can be installed and share resources with each other. Any offerings you install into a package group will share resources with all other offerings in that package group. See “Package groups and the shared resource directory” on page 19 for more information.

You can create multiple package groups on your system. Each package group you create remains separate from all other package groups on the system. To create a new package group:

- a. Click the **Create a new package group** radio button.
- b. Enter the path for the installation directory you wish to use for the package group. The installation directory is only used for this package group. The installation directory must be a new or empty directory on your system.

Important: To enable users who do not have Administrator privileges to work with Developer for System z in the Windows Vista operating system, do not choose a Shared Resources directory inside the Program Files directory (C:\Program Files\).

- c. The name for the package group is created automatically.
 - d. Click **Next** to continue.
5. On the next Location panel, you can choose to extend an existing Eclipse IDE already installed on your system, adding the functionality in the packages that you are installing. You must have Eclipse Version 3.2.2 using IBM Java Development Kit (JDK) version 1.5 or higher to select this option. It is recommended that you use the Eclipse and JDK packaged with the product instead of extending an existing one.
 - If you do not want to extend an existing Eclipse IDE, click **Next** to continue.
 - To extend an existing Eclipse IDE:
 - a. Select Extend an existing Eclipse.
 - b. In the Eclipse IDE field, type or navigate to the location of the folder containing the eclipse executable file (eclipse.exe). Installation Manager checks if the Eclipse IDE version is valid for the package that you are installing. The Eclipse IDE JVM field displays the Java Virtual Machine (JVM) for the IDE that you specified.
 - c. Click **Next** to continue.
 6. On the next Location page under Languages, select the languages you wish to install for this package group. The corresponding national language translations for the user interface and documentation for the IBM Rational Application Developer and Developer for System z packages will be installed.

Note: Your choices apply to all packages installed in this package group.

7. On the Features panel, select the features that you want to install for each offering. You can click on the name of any feature to view a description of that feature. The feature description is displayed in the Details section at the bottom of the panel.

Note: Developer for System z requires several features of IBM Rational Application Developer in order to install. All of the required features are selected by default on the panel. If any of the required features are not

selected, you will see an error message displayed at the top of the panel indicating the names of the features that need to be installed. You may add any additional optional features that you would like to install, however it is recommended that you do not remove any of the preselected features from the list.

The following is a list of the features of IBM Rational Application Developer that are required by Developer for System z and must be installed:

- Web Development Tools
- J2EE and Web services development tools
- Test and Performance Tools Platform (TPTP)
- J2EE Connector (J2C) tools
- Transformation authoring
- Plug-in Development Environment (PDE)
- Data tools
- WebSphere Application Server development tools
- WebSphere Application Server compile-time dependencies

When you have finished selecting the features you want to install, click **Next**.

8. On the Summary panel, review your choices before you begin installing IBM Rational Application Developer 7.0.0.3 and Developer for System z v 7.1. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your installation choices, click **Install** to install the packages. The installation begins and a progress indicator shows you the percentage of the installation complete.
9. When the installation process is complete, a message confirms the success of the installation.
 - a. To view the installation log file for the current session, click **View log file** to open the installation log in a new window.
 - b. **Important:** The final installation panel provides you with the option of launching IBM Rational Application Developer when you click **Finish** and exit the installation. Doing so results in an error message from Developer for System z about a missing TPFSHARE environment variable. Do not select the **Launch IBM Rational Application Developer** button on the right side of the panel. Instead, click **None** and then click **Finish**. Installation Manager will close and you can then launch Developer for System z from the Windows Start menu. Select **Start -> All Programs -> [package group name] -> IBM Rational Developer for System z -> IBM Rational Developer for System z**.

Installing into a new package group

Regardless of any existing installations you may have on your system, you always have the option of performing a clean installation of IBM Rational Application Developer and Developer for System z into a new package group as an alternative to modifying and updating installations in an existing package group.

Installing into a new package group allows you to perform additional installations of IBM Rational Application Developer and Developer for System z that remain separate from any existing installations in other package groups. Files that have already been installed into the Shared Resources directory during previous installations of IBM Rational Application Developer and Developer for System z will not need to be reinstalled, so the installation into a new package group may require less time and space than the previous installation.

If the Developer for System z Installation Wizard detects a previous installation of Rational Application Developer, Rational Software Architect or WebSphere Developer for System z v 7.0, it gives you the option of installing IBM Rational Application Developer and IBM Rational Developer for System z into a new package group instead of modifying and updating an existing package group.

Note: If the Installation Wizard does not automatically start the Installation Manager for you, you can start Installation Manager by running the `startRDzInstall.bat` file located in the root directory of CD1.

The following steps will guide you through the installation of IBM Rational Application Developer and Developer for System z into a new package group using Installation Manager:

1. On the Install Packages panel, select the IBM Rational Application Developer 7.0.0.3 and Developer for System z offerings. You can click on the name of each offering to view more information about it. Information is displayed in the Details section at the bottom of the panel. You may be prompted to update IBM Installation Manager to a newer version if one is available. If prompted, click **Yes** to install the update. Installation Manager updates itself and informs you that it must restart to complete the update. Click **OK** to restart Installation Manager.

When you are ready to continue the installation, click **Next**. Installation Manager will gather information about the packages you have selected and proceed to the Licenses panel.

2. On the Licenses panel, read the license agreements for the selected packages. There is a license agreement for each package you selected to install. On the left side of the License panel, click each package name to display the corresponding license agreement.
 - 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.
3. On the Location panel, type the path for the shared resources directory in the **Shared Resources Directory** field. The shared resources directory contains resources that are shared by one or more package groups, and is where a large portion of the files for all offerings are installed.

Important: You can only specify the shared resources directory the first time that you install a package. Use your largest drive for this to ensure adequate space for the shared resources of future packages.

Important: To enable users who do not have Administrator privileges to work with Developer for System z in the Windows Vista operating system, do not choose a Shared Resources directory inside the Program Files directory (C:\Program Files\).

Note: To change this directory location you must uninstall all packages and re-install the packages, specifying a new shared resources directory. Click **Next** to continue.

4. On the next Location panel you create a new package group to contain your IBM Rational Application Developer and Developer for System z packages. A package group represents a location into which many offerings can be installed and share resources with each other. Any offerings you install into a package group will share resources with all other offerings in that package group. See "Package groups and the shared resource directory" on page 19 for more information.

You can create multiple package groups on your system. Each package group you create will remain separate from all other package groups on the system. To create a new package group:

- a. Click the **Create a new package group** radio button.
 - b. Enter the path for the installation directory you wish to use for the package group. The installation directory must be a new or empty directory on your system.
 - c. The name for the package group is created automatically.
 - d. Click **Next** to continue.
5. On the next Location panel, you can choose to extend an existing Eclipse IDE already installed on your system, adding the functionality in the packages that you are installing. You must have Eclipse Version 3.2.2 using IBM Java Development Kit (JDK) version 1.5 or higher to select this option. It is recommended that you use the Eclipse and JDK packaged with the product instead of extending an existing one.
- If you do not want to extend an existing Eclipse IDE, click **Next** to continue.
 - To extend an existing Eclipse IDE:
 - a. Select Extend an existing Eclipse.
 - b. In the Eclipse IDE field, type or navigate to the location of the folder containing the eclipse executable file (`eclipse.exe`). Installation Manager checks if the Eclipse IDE version is valid for the package that you are installing. The Eclipse IDE JVM field displays the Java Virtual Machine (JVM) for the IDE that you specified.
 - c. Click **Next** to continue.
6. On the next Location page under Languages, select the languages you wish to install for this package group. The corresponding national language translations for the user interface and documentation for the IBM Rational Application Developer and Developer for System z packages will be installed.

Note: Your choices apply to all packages installed in this package group.

7. On the Features panel, select the features that you want to install for each offering. You can click on the name of any feature to view a description of that feature. The feature description is displayed in the Details section at the bottom of the panel.

Note: Developer for System z requires several features of IBM Rational Application Developer in order to install. All of the required features are selected by default on the panel. If any of the required features are not selected, you will see an error message displayed at the top of the panel indicating the names of the features that need to be installed. You may add any additional optional features that you would like to install, however it is recommended that you do not remove any of the preselected features of IBM Rational Application Developer.

The following IBM Rational Application Developer features are required by Developer for System z and must be installed:

- Web Development Tools
- J2EE and Web services development tools
- Test and Performance Tools Platform (TPTP)
- J2EE Connector (J2C) tools
- Transformation authoring
- Plug-in Development Environment (PDE)

- Data tools
- WebSphere Application Server development tools
- WebSphere Application Server compile-time dependencies

When you have finished selecting the features you want to install, click **Next**.

8. On the Summary panel, review your choices before you begin installing IBM Rational Application Developer 7.0.0.3 and Developer for System z v 7.1. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your installation choices, click **Install** to install the packages. The installation begins and a progress indicator shows you the percentage of the installation completed.
9. When the installation process is complete, a message confirms the success of the installation.
 - a. To view the installation log file for the current session, click **View log file** to open the installation log in a new window.
 - b. **Important:** The final installation panel provides you with the option of launching IBM Rational Application Developer when you click **Finish** and exit the installation. Doing so results in an error message from Developer for System z about a missing TPFSHARE environment variable. Do not select the **Launch IBM Rational Application Developer** button on the right side of the panel. Instead, click **None** and then click **Finish**. Installation Manager will close and you can then launch Developer for System z from the Windows Start menu. Select **Start -> All Programs -> [package group name] -> IBM Rational Developer for System z -> IBM Rational Developer for System z**.

Updating an existing installation of IBM Rational Application Developer and WebSphere Developer for System z

You can install Developer for System z as an update to an existing WebSphere Developer for System z 7.0.x installation. This requires that IBM Rational Application Developer also be updated to version 7.0.0.3. All update tasks are performed by IBM Installation Manager. If IBM Installation Manager has not already been started from the Developer for System z Installation Wizard, start IBM Installation Manager using the `startRDzInstall.bat` file located in the root directory of CD1.

The following steps will guide you through the process of updating an existing IBM Rational Application Developer and WebSphere Developer for System z installation:

1. On the main IBM Installation Manager panel, click **Update Packages**.
2. You may be prompted to update IBM Installation Manager to a newer version if one is available. If prompted, click **Yes** to install the update. Installation Manager updates itself and informs you that it must restart to complete the update. Click **OK** to restart Installation Manager.
After Installation Manager has restarted, you will need to click **Update Packages** again.
3. On the Update Packages panel, select the package group that contains the IBM Rational Application Developer and WebSphere Developer for System z installations that you wish to update. Click **Next**.

4. The Updates panel lists the available IBM Rational Application Developer updates, as well as the WebSphere Developer for System z update. Select the IBM Rational Application Developer and WebSphere Developer for System z updates for installation and click **Next**.
5. On the Licenses panel, read the license agreements for the selected updates. There are license agreements for each update you selected to install. On the left side of the License panel, click each package name to display the corresponding license agreement.
 - 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.
6. On the Summary panel, review your choices before you begin installing the IBM Rational Application Developer and WebSphere Developer for System z updates. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your installation choices, click **Update** to install the updates. The update installations begins and a progress indicator shows you the percentage of the installation completed.
7. On the Completion panel, click **Finish**.
8. Start the Developer for System z product from the Windows Start menu, via **Start -> All Programs -> [package group name] -> IBM Rational Developer for System z -> IBM Rational Developer for System z**.

Modifying an existing IBM Rational Application Developer installation to include missing required features

Developer for System z requires several features of IBM Rational Application Developer. If you are installing Developer for System z into a package group that contains an existing IBM Rational Application Developer installation that is missing any of the required features, you will need to modify your existing IBM Rational Application Developer installation prior to installing Developer for System z.

Note: If the Installation Wizard does not automatically start the Installation Manager for you, you can start Installation Manager by running the `startRDzInstall.bat` file located in the root directory of CD1.

Note: Modifying an existing IBM Rational Application Developer installation may require the original IBM Rational Application Developer installation media and update media to be available in order to install the missing features.

The following steps will guide you through the process of modifying an existing IBM Rational Application Developer installation:

1. On the main IBM Installation Manager panel, click **Modify Packages**.
2. You may be prompted to update IBM Installation Manager to a newer version if one is available. If prompted, click **Yes** to install the update. Installation Manager updates itself and informs you that it must restart to complete the update. Click **OK** to restart Installation Manager. After Installation Manager has restarted, you will need to click **Modify Packages** again.
3. On the Modify Packages panel, select the package group that contains the IBM Rational Application Developer installation that you wish to modify. Click on the name of the package group to see what has been installed into it. Click on the name of the package group to see what has been installed into it. Click **Next**.

4. On the Languages panel, select or deselect any languages you wish to add to or remove from your installation.
5. On the Features panel, select the features that you want to add to your IBM Rational Application Developer installation. The features that are already installed will already be selected in the list of features.

You can click on the name of any feature to view a description of that feature. The feature description will display in the Details section at the bottom of the panel.

Be sure to select all of the features that are required by Developer for System z. You may also add any optional features that you would like to install, however it is recommended that you do not remove any features.

The following IBM Rational Application Developer features are required by Developer for System z and must be installed:

 - Web Development Tools
 - J2EE and Web services development tools
 - Test and Performance Tools Platform (TPTP)
 - J2EE Connector (J2C) tools
 - Transformation authoring
 - Plug-in Development Environment (PDE)
 - Data tools
 - WebSphere Application Server development tools
 - WebSphere Application Server compile-time dependencies
6. On the Summary panel, review your choices before you begin modifying your IBM Rational Application Developer installation. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your choices, click **Modify** to make the changes you specified to your installation. The modification process begins and a progress indicator shows you the percentage of the process completed.
7. On the Completion panel, click **Finish**.

Updating an existing IBM Rational Application Developer installation to version 7.0.0.3

If you are installing Developer for System z into a package group with an existing Rational Application Developer installation, you will be required to update Rational Application Developer to version 7.0.0.3 before the Developer for System z installation can proceed. If IBM Installation Manager has not already been started from the Developer for System z Installation Wizard, start IBM Installation Manager using the `startRDzInstall.bat` file located in the root directory of CD1.

The following steps will guide you through the process of updating an existing IBM Rational Application Developer installation:

1. On the main IBM Installation Manager panel, click **Update Packages**.
2. You may be prompted to update IBM Installation Manager to a newer version if one is available. If prompted, click **Yes** to install the update. Installation Manager will update itself and inform you that it must restart to complete the update. Click **OK** to restart Installation Manager. After Installation Manager has restarted, you will need to click **Update Packages** again.

3. On the Update Packages panel, select the package group that contains the Rational Application Developer installation that you wish to update. Click on the name of the package group to see what has been installed into it. Click **Next**.
4. The Updates panel will list the available Rational Application Developer update. Select it and then click **Next**.
5. On the Licenses panel, read the license agreements for the selected update.
 - a. If you agree to the terms of all of the license agreements, click **I accept the terms of the license agreement**.
 - b. Click **Next** to continue.
6. On the Summary panel, review your choices before you begin installing the IBM Rational Application Developer update. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your installation choices, click **Update** to install the update. The update installation begins and a progress indicator shows you the percentage of the installation completed.
7. On the Completion panel, click **Finish**.

Installing onto a system that has IBM Rational Application Developer 7.0.0.3 installed

If you have an existing Rational Application Developer 7.0.0.3 installation that includes all of the features required by Developer for System z, you can install Developer for System z directly into the same package group that contains Rational Application Developer 7.0.0.3. If IBM Installation Manager has not already been started from the Developer for System z Installation Wizard, start IBM Installation Manager using the `startRDzInstall.bat` file located in the root directory of CD1.

The following steps will guide you through the process of installing Developer for System z on a system with an existing Rational Application Developer 7.0.0.3 installation:

1. On the Install Packages panel, select the IBM Rational Developer for System z offering. If Rational Application Developer 7.0.0.3 also appears on the list of available packages, deselect it. You do not need to install Rational Application Developer 7.0.0.3 again. You can click on the name of the offering to view more information about it. Information is displayed in the Details section at the bottom of the panel. When you are ready to continue the installation, click **Next**. You may be prompted to update IBM Installation Manager to a newer version if one is available. If prompted, click **Yes** to install the update. Installation Manager updates itself and informs you that it must restart to complete the update. Click **OK** to restart Installation Manager.
2. On the Licenses panel, read the license agreement for the selected package.
 - a. If you agree to the terms of all of the license agreements, click **I accept the terms of the license agreement**.
 - b. Click **Next** to continue.
3. On the Location panel, select the package group that contains your Rational Application Developer 7.0.0.3 installation as the package group in which to install Developer for System z 7.1:
 - a. Click **Use the existing package group**
 - b. Click the name of the package group that contains your Rational Application Developer 7.0.0.3 installation. When you click on a package

group name, the bottom of the Location panel displays detailed information about the package group, as well as a list of packages that are currently installed in that package group. You can verify that you have selected the correct package group by looking at the Installed Packages section at the bottom of the panel and verifying that the expected version of Rational Application Developer is listed as one of the packages installed in the package group.

- c. The name and installation directory for the package group cannot be changed. These values were defined when you created the package group.
- d. Click **Next** to continue.
4. On the Features panel, select the features of Developer for System z that you want to install. You can click on the name of any feature to view a description of that feature. The feature description is displayed in the Details section at the bottom of the panel. When you have finished selecting the features you want to install, click **Next**.
5. On the Summary panel, review your choices before you begin installing Developer for System z. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your installation choices, click **Install** to install the package. The installation begins and a progress indicator shows you the percentage of the installation completed.
6. When the installation process is completed, a message will confirm the success of the installation.
 - a. To view the log file for the current session, click **View log file** to open the installation log in a new window.
 - b. Click **Finish** and exit the installation.
 - c. Start the Developer for System z product from the Windows Start menu, via **Start -> All Programs -> [package group name] -> IBM Rational Developer for System z -> IBM Rational Developer for System z**.

Installing onto a system that has IBM Rational Application Developer at a version later than 7.0.0.3

Rational Application Developer 7.0.0.3 must be installed on the system before Developer for System z can be installed. If you have an existing installation of Rational Application Developer at a version later than 7.0.0.3, there may be additional updates to Developer for System z that must be installed in order to create a package that is compatible with your version of Rational Application Developer. If there are updates available, IBM Installation Manager will need to be able to access them during the Developer for System z installation. You can check for and obtain updates to Developer for System z using one of the following methods:

1. If your system has internet access during the installation, Installation Manager can check for the latest recommended update and install it directly from the IBM update repository at the same time Developer for System z v 7.1 is installed.
2. If your system does not have internet access during the installation, you will need to check for the latest recommended update from the Developer for System z v 7.1 support website, at <http://www.ibm.com/software/awdtools/devzseries/support/>. If any updates are available, you will need to download the update package prior to running the Developer for System z installation and make the update available to Installation Manager using one of the following methods:

- After downloading the update, extract the update repository files to a local or network location that is accessible to Installation Manager during the Developer for System z installation.
- After downloading the update, extract the update repository files to a temporary location and use IBM Packaging Utility to copy the update package to a local or network update repository. This is useful if you want to maintain product updates in a network update repository that is accessible to multiple users. See “IBM Packaging Utility” on page 53 for more information on using IBM Packaging Utility to create your own update repository.

If there are no updates available, proceed with the Developer for System z installation.

If the Developer for System z Installation Wizard has not started IBM Installation Manager, start IBM Installation Manager using the `startRDzInstall.bat` file located in the root directory of CD1.

The following steps will guide you through the process of installing Developer for System z on a system with an existing installation of Rational Application Developer at a version later than 7.0.0.3:

1. From the main IBM Installation Manager panel:
 - a. Click **File > Preferences**.
 - b. Click **Repositories** on the left side of the Preferences window.
 - c. If your system has access to the internet during the Developer for System z installation, make sure the checkbox labeled **Search service repositories during installation and updates** is checked. This tells Installation Manager to search the IBM update repository for Developer for System z updates.
 - d. If your system does not have access to the internet during the Developer for System z installation and you are planning to install the updates directly from a local or network update repository, download the updates from the Developer for System z support website and add the repository location in the Installation Manager Preferences before proceeding with the installation:
 - 1) Click **Add Repository**.
 - 2) Enter the directory path or URL of the update repository that contains the Developer for System z updates. Click **OK**. Installation Manager will verify that it is able to connect to the specified repository. If Installation Manager is unable to connect to the repository, an error message is displayed. If this occurs:
 - Be sure you have properly entered the directory path or URL and that your system is able to access that location.
 - If you are behind a firewall, verify that the firewall is not blocking Installation Manager from accessing the network. The Installation Manager process that requires network access is called `javaw.exe`.
 - e. Click **OK** to save your preferences and exit the Preferences window.
2. On the main IBM Installation Manager panel, click **Install Packages**.
3. On the Install Packages panel, Developer for System z is displayed in the list of available packages. The version of Developer for System z listed may vary depending on whether you added a new update repository in the Installation Manager preferences prior to running the installation.
 - If you added a local or network update repository in the Installation Manager preferences, the version of Developer for System z listed on the Install Packages panel should be the version contained in the update repository.

- If you did not add a repository in the Installation Manager preferences, IBM Rational Developer for System z version 7.1.0 will be the version listed.

If you are connected to the internet and would like Installation Manager to check for and install updates for you from the IBM update repository, click **Check for Other Versions and Extensions**. Installation Manager will search the update repository for available updates and inform you if any were found.

Note: If Rational Application Developer 7.0.0.3 also appears on the list of available packages, deselect it. You do not need to install Rational Application Developer again.

Note: You can click on the name of an offering to view more information about it. Information is displayed in the Details section at the bottom of the panel.

When you are ready to continue the installation, click **Next**.

4. On the Licenses panel, read the license agreement for the selected package.
 - a. If you agree to the terms of the license agreements, click **I accept the terms of the license agreement**.
 - b. Click **Next** to continue.
5. On the Location panel, select the package group that contains your Rational Application Developer installation as the package group in which to install Developer for System z:
 - a. Click **Use the existing package group**
 - b. Click the name of the package group that contains your Rational Application Developer installation. When you click on a package group name, the bottom of the Location panel displays detailed information about the package group, as well as a list of packages which are currently installed in that package group. You can verify that you have selected the correct package group by looking at the Installed Packages section at the bottom of the panel and verify that the expected version of Rational Application Developer is listed as one of the packages installed in the package group.
 - c. The name and installation directory for the package group cannot be changed. These values were defined when you created the package group.
 - d. Click **Next** to continue.
6. On the Features panel, select the features of Developer for System z that you want to install. You can click on the name of any feature to view a description of that feature. The feature description will display in the Details section at the bottom of the panel.

When you have finished selecting the features you want to install, click **Next**. You may see an error message at the top of the Features panel that says, "**The installation package 'IBM Rational Developer for System z' requires components supplied by other packages...**" followed by a list of the features of Rational Application Developer that are required by Developer for System z. This error message indicates one of two things:

- a. Your existing Rational Application Developer installation is missing one or more of the features that are required by Developer for System z. You will need to modify your existing Rational Application Developer installation to include the missing features. See "Modifying an existing IBM Rational Application Developer installation to include missing required features" on page 30 for details on how to modify your installation. Note:

Note: Modifying an existing Rational Application Developer installation may require the original Rational Application Developer installation media and update media to be available in order to install the missing features.

Once you have installed the missing required features, retry the Developer for System z installation from step 1.

- b. Developer for System z is not compatible with the version of Rational Application Developer that is installed. If you did not check for available Developer for System z updates, follow the instructions at the beginning of this section to determine if a Developer for System z update is available. If you already checked for updates and are attempting to install the latest available version, then Developer for System z is not compatible with your version of Rational Application Developer and you cannot install Developer for System z into the same package group. You will need to do one of the following:
 - Recommended: Install Rational Application Developer 7.0.0.3 and Developer for System z into a new package group. See “Installing into a new package group” on page 26 for more information.
 - If possible, roll back your Rational Application Developer installation to version 7.0.0.3 using the Roll Back Packages feature of IBM Installation Manager. On the Installation Manager main panel, click **Roll Back Packages**. Follow the instructions on the panels to roll back Rational Application Developer to version 7.0.0.3.

Note: Depending on your system configuration, Installation Manager preferences, and installation history, you may not be able to roll back Rational Application Developer to version 7.0.0.3.

7. On the Summary panel, review your choices before you begin installing Developer for System z. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your installation choices, click **Install** to install the package. The installation will begin and a progress indicator will show you the percentage of the installation completed.
8. When the installation process is complete, a message will confirm the success of the installation.
 - 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. Click **Finish** and exit the installation.
 - c. Start the Developer for System z product from the Windows Start menu. Select **Start -> All Programs -> [package group name] -> IBM Rational Developer for System z -> IBM Rational Developer for System z**.

Updating an existing installation of Rational Software Architect and WebSphere Developer for System z installation

Rational Developer for System z can be installed as an update to an existing WebSphere Developer for System z Version 7.0.x installation. This requires that Rational Software Architect also be updated to version 7.0.0.3. All update tasks are performed by IBM Installation Manager. Rational Software Architect updates are not included on the Developer for System z installation CDs, so you will need to obtain the Rational Software Architect 7.0.0.3 one of the following ways:

- If your system has access to the internet, Installation Manager can install the Rational Software Architect 7.0.0.3 update directly from the IBM update repository at the same time it installs Developer for System z.
- If your system does not have internet access or you would rather install Rational Software Architect 7.0.0.3 from a local or network location, download the Rational Software Architect 7.0.0.3 update from the Rational Software Architect support website, at <http://www.ibm.com/software/awdtools/architect/swarchitect/support/index.html>. Make the update available to Installation Manager using one of the following methods:
 - After downloading the update, extract the update repository files to a local or network location that is accessible to Installation Manager during the installation.
 - After downloading the update, extract the update repository files to a temporary location and use IBM Packaging Utility to copy the update package to a local or network update repository. This is useful if you want to maintain product updates in a network update repository that is accessible to multiple users. See “IBM Packaging Utility” on page 53 for more information on using IBM Packaging Utility to create your own update repository.

If the Installation Wizard has not started IBM Installation Manager, start Installation Manager using the `startRDzInstall.bat` file located in the root directory of CD1.

The following steps will guide you through the process of updating an existing Rational Software Architect and Developer for System z installation:

1. 1. From the main IBM Installation Manager panel:
 - a. Click **File > Preferences**.
 - b. Click **Repositories** on the left side of the Preferences window.
 - c. If your system has access to the internet during the installation, make sure the checkbox labeled **Search service repositories during installation and updates** is checked. This tells Installation Manager to search the IBM update repository for Rational Software Architect updates.
 - d. If your system does not have access to the internet during the installation and you are planning to install the update from a local or network update repository, download the Rational Software Architect 7.0.0.3 update from the support website at <http://www.ibm.com/software/awdtools/architect/swarchitect/support/index.html> and add the repository location in the Installation Manager Preferences before proceeding with the installation:
 - 1) Click **Add Repository**.
 - 2) Enter the directory path or URL of the update repository that contains the Rational Software Architect 7.0.0.3 update. Click **OK**. Installation Manager verifies that it is able to connect to the specified repository. If Installation Manager is unable to connect to the repository, an error message is displayed. If this occurs:
 - Be sure you have properly entered the directory path or URL and that your system is able to access that location.
 - If you are behind a firewall, verify that the firewall is not blocking Installation Manager from accessing the network. The Installation Manager process that requires network access is called `javaw.exe`.
 - e. Click **OK** to save your preferences and exit the Preferences window
2. On the main IBM Installation Manager panel, click **Update Packages**.

3. You may be prompted to update IBM Installation Manager to a newer version if one is available. If prompted, click **Yes** to install the update. Installation Manager updates itself and informs you that it must restart to complete the update. Click **OK** to restart Installation Manager. After Installation Manager has restarted, click **Update Packages** again.
4. On the Update Packages panel, select the package group that contains the Rational Software Architect and WebSphere Developer for System z installations that you wish to update. Click on the name of the package group to see what has been installed into it. Click **Next**.
5. The Updates panel lists the available Rational Software Architect 7.0.0.3 and WebSphere Developer for System z updates. If you do not see Rational Software Architect 7.0.0.3 listed, click **Show all versions** to display additional versions that are available. Select the Rational Software Architect 7.0.0.3 and IBM Rational Developer for System z updates for installation. Click **Next**.
6. On the Licenses panel, read the license agreements for the selected updates. There is a license agreement for each update you selected to install. On the left side of the License panel, click each package name to display its license agreement.
 - 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.
7. On the Summary panel, review your choices before you begin installing the Rational Application Developer and WebSphere Developer for System z updates. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your installation choices, click **Update** to install the updates. The update installations will begin and a progress indicator will show you the percentage of the installation completed.
8. On the Completion panel, click **Finish**.
9. Start the Developer for System z product from the Windows Start menu. Select **Start -> All Programs -> [package group name] -> IBM Rational Developer for System z -> IBM Rational Developer for System z**.

Modifying an existing Rational Software Architect installation to include missing required features

Developer for System z requires several features of Rational Software Architect. These features must be installed before installing Developer for System z. If you are installing Developer for System z into a package group that contains an existing Rational Software Architect installation and any of the required features are missing, you will need to modify your existing Rational Software Architect installation to include the missing features.

If the Installation Wizard has not started IBM Installation Manager, start Installation Manager using the `startRDzInstall.bat` file located in the root directory of CD1. Note:

Modifying an existing Rational Software Architect installation may require the original Rational Software Architect installation media in order to install the missing features. The following steps will guide you through the process of modifying an existing Rational Software Architect installation:

1. On the main Installation Manager panel, click **Modify Packages**.

2. You may be prompted to update IBM Installation Manager if a newer version is available. If prompted, click **Yes** to install the update. Installation Manager updates itself and informs you that it must restart to complete the update. Click **OK** to restart Installation Manager. After Installation Manager has restarted, click **Modify Packages** again.
3. On the Modify Packages panel, select the package group that contains the Rational Software Architect installation that you wish to modify. Click on the name of the package group to see what has been installed into it. Click **Next**.
4. On the Languages panel, select or deselect any languages you wish to add to or remove from your installation.
5. On the Features panel, select the features that you want to add to your Rational Software Architect installation. The features that are already installed are preselected in the list of features. You can click on the name of any feature to view a description of that feature. The feature description is displayed in the Details section at the bottom of the panel. Be sure to select all of the features that are required by Developer for System z. You may also add any additional features that you would like to install, however it is recommended that you do not remove any features.

The following Rational Software Architect features are required by Developer for System z and must be installed:

- UML Modeling
 - UML-to-UML transformations and patterns
 - J2EE and Web services development tools
 - Web Development Tools
 - J2EE Connector (J2C) tools
 - Test and Performance Tools Platform (TPTP)
 - Plug-in Development Environment (PDE)
 - Data tools
 - WebSphere Application Server development tools
 - WebSphere Application Server compile-time dependencies
6. On the Summary panel, review your choices before you begin modifying your Rational Software Architect installation. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your choices, click **Modify** to make the changes you specified to your installation. The modification process begins and a progress indicator shows the percentage of the process completed.
 7. On the Completion panel, click **Finish**.

Updating an existing Rational Software Architect installation to version 7.0.0.3

If you are installing Developer for System z into a package group with an existing Rational Software Architect installation, you will be required to update Rational Software Architect to version 7.0.0.3 before the Developer for System z installation can proceed. Rational Software Architect updates are not included on the Developer for System z installation CDs, so you will need to obtain the Rational Software Architect 7.0.0.3 one of the following ways:

1. If your system has access to the internet, Installation Manager can install the Rational Software Architect 7.0.0.3 update directly from the IBM update repository at the same time it installs Developer for System z.

2. If your system does not have internet access or you would rather install Rational Software Architect 7.0.0.3 from a local or network location, download the Rational Software Architect 7.0.0.3 update from the Rational Software Architect support website, at <http://www.ibm.com/software/awdtools/architect/swarchitect/support/index.html>. Make the update available to Installation Manager using one of the following methods:
 - After downloading the update, extract the update repository files to a local or network location that is accessible to Installation Manager during the installation.
 - After downloading the update, extract the update repository files to a temporary location and use IBM Packaging Utility to copy the update package to a local or network update repository. This is useful if you want to maintain product updates in a network update repository that is accessible to multiple users. See “IBM Packaging Utility” on page 53 for more information on using IBM Packaging Utility to create your own update repository.

If the Installation Wizard has not started IBM Installation Manager, start IBM Installation Manager using the `startRDzInstall.bat` file located in the root directory of CD1.

The following steps guide you through the process of updating an existing Rational Software Architect installation:

1. From the main IBM Installation Manager panel:
 - a. Click **File > Preferences**.
 - b. Click **Repositories** on the left side of the Preferences window.
 - c. If your system has access to the internet during the installation, make sure the checkbox labeled **Search service repositories during installation and updates** is checked. This tells Installation Manager to search the IBM update repository for Rational Software Architect updates.
 - d. If your system does not have access to the internet during the installation and you are planning to install the update from a local or network update repository, download the Rational Software Architect 7.0.0.3 update from the support website at <http://www.ibm.com/software/awdtools/architect/swarchitect/support/index.html>, and add the repository location in the Installation Manager Preferences before proceeding with the installation:
 - 1) Click **Add Repository**.
 - 2) Enter the directory path or URL of the update repository that contains the Rational Software Architect 7.0.0.3 update. Click **OK**. Installation Manager will verify that it is able to connect to the specified repository. If Installation Manager is unable to connect to the repository, an error message is displayed. If this occurs:
 - Be sure you have properly entered the directory path or URL and that your system is able to access that location.
 - If you are behind a firewall, verify that the firewall is not blocking Installation Manager from accessing the network. The Installation Manager process that requires network access is called `javaw.exe`.
 - e. Click **OK** to save your preferences and exit the Preferences window.
2. On the main IBM Installation Manager panel, click **Update Packages**.
3. You may be prompted to update IBM Installation Manager to a newer version if one is available. If prompted, click **Yes** to install the update. Installation

Manager updates itself and informs you that it must restart to complete the update. Click **OK** to restart Installation Manager. After Installation Manager has restarted, click **Update Packages** again.

4. On the Update Packages panel, select the package group that contains the Rational Software Architect installation that you wish to update. Click on the name of the package group to see what has been installed into it. Click **Next**.
5. The Updates panel will list the available Rational Software Architect 7.0.0.3 update. Select it and then click **Next**.
6. On the Licenses panel, read the license agreements for the selected update.
 - a. If you agree to the terms of all of the license agreements, click **I accept the terms of the license agreement**.
 - b. Click **Next** to continue.
7. On the Summary panel, review your choices before you begin installing the Rational Software Architect 7.0.0.3 update. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your installation choices, click **Update** to install the update. The update installation will begin and a progress indicator will show you the percentage of the installation completed.
8. On the Completion panel, click **Finish**.

Installing onto a system that has Rational Software Architect 7.0.0.3 installed

If you have an existing Rational Software Architect 7.0.0.3 installation that includes all of the features required by Developer for System z, you can install Developer for System z directly into the same package group that contains Rational Software Architect 7.0.0.3.

If the Installation Wizard has not started IBM Installation Manager, start IBM Installation Manager using the `startRDzInstall.bat` file located in the root directory of CD1.

The following steps guide you through the process of installing Developer for System z on a system with an existing Rational Software Architect 7.0.0.3 installation:

1. On the Install Packages panel, select the IBM Rational Developer for System z offering. If Rational Software Architect 7.0.0.3 also appears on the list of available packages, deselect it. You do not need to install Rational Software Architect 7.0.0.3 again.

You can click on the name of the offering to view more information about it. Information will be displayed in the Details section at the bottom of the panel. When you are ready to continue the installation, click **Next**.
2. On the Licenses panel, read the license agreement for the selected package.
 - a. If you agree to the terms of the license agreements, click **I accept the terms of the license agreement**.
 - b. Click **Next** to continue.
3. On the Location panel, select the package group that contains your Rational Software Architect 7.0.0.3 installation as the package group in which to install Developer for System z:
 - a. Click **Use the existing package group**

- b. Click the name of the package group that contains your Rational Software Architect 7.0.0.3 installation. When you click on a package group name, the bottom of the Location panel displays detailed information about the package group, as well as a list of packages which are currently installed in that package group.
You can verify that you have selected the correct package group by looking at the Installed Packages section at the bottom of the panel and verifying that the expected version of Rational Software Architect is listed as one of the packages installed in the package group.
 - c. The name and installation directory for the package group cannot be changed. These values were defined when you created the package group.
 - d. Click **Next** to continue.
4. On the Features panel, select the features of IBM Rational Developer for System z that you want to install. The feature description displays in the Details section at the bottom of the panel. When you have finished selecting the features you want to install, click **Next**.
 5. On the Summary panel, review your choices before you begin installing Developer for System z. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your installation choices, click **Install** to install the package. The installation begins and a progress indicator shows you the percentage of the installation completed.
 6. When the installation process is complete, a message confirms the success of the installation.
 - a. Click **View log file** to open the installation log file for the current session in a new window.
 - b. Click **Finish** and exit the installation.
 - c. Start the Developer for System z product from the Windows Start menu. Select **Start -> All Programs -> [package group name] -> IBM Rational Developer for System z -> IBM Rational Developer for System z**.

Installing onto a machine that has Rational Software Architect at a version later than 7.0.0.3

Rational Software Architect 7.0.0.3 must be installed on the system before Developer for System z can be installed. If you have an existing installation of Rational Software Architect at a version later than 7.0.0.3, there may be additional updates to Developer for System z that must be installed in order to create a package that is compatible with your version of Rational Software Architect. If there are updates available, IBM Installation Manager will need to be able to access them during the Developer for System z installation. You can check for and obtain Developer for System z updates using one of the following methods:

1. If your system has internet access during the installation, Installation Manager can check for the latest recommended update and install it directly from the IBM update repository at the same time Developer for System z is installed.
2. If your system does not have internet access during the installation, you will need to check for the latest recommended update from the Developer for System z support website, at <http://www.ibm.com/software/awdtools/devzseries/support/>. If any updates are available, download the update package prior to running the Developer for System z installation. Make the update available to Installation Manager using one of the following methods:

- After downloading the update, extract the update repository files to a local or network location that is accessible to Installation Manager during the Developer for System z installation.
- After downloading the update, extract the update repository files to a temporary location and use IBM Packaging Utility to copy the update package to a local or network update repository. This is useful if you want to maintain product updates in a network update repository that is accessible to multiple users. See “IBM Packaging Utility” on page 53 for more information on using IBM Packaging Utility to create your own update repository.

If there are no updates available, proceed with the Developer for System z installation.

If the Installation Wizard has not started IBM Installation Manager, start IBM Installation Manager using the StartIMSetup.bat file located in the root directory of CD1.

The following steps guide you through the process of installing Developer for System z on a system with an existing installation of Rational Software Architect at a version later than 7.0.0.3:

1. From the main IBM Installation Manager panel:
 - a. Click **File > Preferences**.
 - b. Click **Repositories** on the left side of the Preferences window.
 - c. If your system has access to the internet during the Developer for System z installation, make sure the checkbox labeled **Search service repositories during installation and updates** is checked. This tells Installation Manager to search the IBM update repository for Developer for System z updates.
 - d. If your system does not have access to the internet during the installation and you are planning to install the updates directly from a local or network update repository, download the updates from the Developer for System z support website and add the repository location in the Installation Manager Preferences before proceeding with the installation:
 - 1) Click **Add Repository**.
 - 2) Enter the directory path or URL of the update repository that contains the Developer for System z updates. Click **OK**. Installation Manager verifies that it is able to connect to the specified repository. If Installation Manager is unable to connect to the repository, an error message is displayed. If this occurs:
 - Be sure you have properly entered the directory path or URL and that your system is able to access that location.
 - If you are behind a firewall, verify that the firewall is not blocking Installation Manager from accessing the network. The Installation Manager process that requires network access is called javaw.exe.
 - e. Click **OK** to save your preferences and exit the Preferences window.
2. On the main IBM Installation Manager panel, click **Install Packages**.
3. On the Install Packages panel, IBM Rational Developer for System z is displayed in the list of available packages. The version of Developer for System z listed may vary depending on whether you added a new update repository in the Installation Manager preferences prior to running the installation.

- If you added a local or network update repository in the Installation Manager preferences, the version of Developer for System z listed on the Install Packages panel should be the version contained in the update repository.
- If you did not add a repository in the Installation Manager preferences, Developer for System z will be the version listed.

If you are connected to the internet and would like Installation Manager to check for install updates from the IBM update repository, click **Check for Other Versions and Extensions**. Installation Manager searches the update repository for available updates and informs you if any were found.

Note: If Rational Application Developer or Rational Software Architect also appear on the list of available packages, deselect it. You do not need to install Rational Application Developer or Rational Software Architect again.

You can click on the name of an offering to view more information about it. Information is displayed in the Details section at the bottom of the panel. When you are ready to continue the installation, click **Next**.

4. On the Licenses panel, read the license agreement for the selected package.
 - a. If you agree to the terms of all of the license agreements, click **I accept the terms of the license agreement**.
 - b. Click **Next** to continue.
5. On the Location panel, select the package group that contains your Rational Software Architect installation as the package group in which to install Developer for System z:
 - a. Click **Use the existing package group**
 - b. Click the name of the package group that contains your Rational Software Architect installation. When you click on a package group name, the bottom of the Location panel displays detailed information about the package group, as well as a list of packages which are currently installed in that package group. You can verify that you have selected the correct package group by looking at the Installed Packages section at the bottom of the panel and verify that the expected version of Rational Software Architect is listed as one of the packages installed in the package group.
 - c. The name and installation directory for the package group cannot be changed. These values were defined when you created the package group
 - d. Click **Next** to continue.
6. On the Features panel, select the features of Developer for System z that you want to install. You can click on the name of any feature to view a description of that feature. The feature description will display in the Details section at the bottom of the panel.

When you have finished selecting the features you want to install, click **Next**. You may see an error message at the top of the Features panel that says, "**The installation package 'IBM Rational Developer for System z' requires components supplied by other packages...**" followed by a list of the features of Rational Software Architect that are required by Developer for System z. This error message indicates one of two things:

- a. Your existing Rational Software Architect installation is missing one or more of the features that are required by Developer for System z. You will need to modify your existing Rational Software Architect installation to include

the missing features. See “Modifying an existing Rational Software Architect installation to include missing required features” on page 38 for details on how to modify your installation.

Note: Modifying an existing Rational Software Architect installation may require the original Rational Software Architect installation media to be available in order to install the missing features.

Once you have installed the missing required features, retry the Developer for System z installation from step 1.

- b. Developer for System z is not compatible with the version of Rational Software Architect that is installed. If you did not check for available Developer for System z updates, follow the instructions at the beginning of this section to determine if a Developer for System z update is available. If you already checked for updates and are attempting to install the latest available version, then Developer for System z is not compatible with your version of Rational Software Architect and you cannot install Developer for System z into the same package group. You will need to do one of the following:
 - Recommended: Install Rational Software Architect 7.0.0.3 and Developer for System z into a new package group. See “Installing into a new package group” on page 26 for more information.
 - If possible, roll back your Rational Software Architect installation to version 7.0.0.3 using the Roll Back Packages feature of IBM Installation Manager. On the Installation Manager main panel, click **Roll Back Packages**. Follow the instructions on the panels to roll back Rational Software Architect to version 7.0.0.3.

Note: Depending on your system configuration, Installation Manager preferences, and installation history, you may not be able to roll back Rational Software Architect to version 7.0.0.3.

7. On the Summary panel, review your choices before you begin installing Developer for System z. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your installation choices, click **Install** to install the package. The installation begins and a progress indicator shows the percentage of the installation completed.
8. When the installation process is complete, a message confirms the success of the installation.
 - a. Click **View log file** to open the installation log file for the current session in a new window.
 - b. Click Finish and exit the installation.
 - c. Start the Developer for System z product from the Windows Start menu. Select **Start -> All Programs -> [package group name] -> IBM Rational Developer for System z -> IBM Rational Developer for System z**.

Installing silently

You can install the IBM Rational Application Developer and IBM Rational Developer for System z packages by running Installation Manager in silent mode. When you run Installation Manager in silent mode, its user interface is not available; you instead use a response file to input the commands required to install the package.

Running Installation Manager in silent mode is helpful because it allows you to use a batch process to install, update, modify and uninstall packages through scripts.

Note that you must install Installation Manager before you can silently install the IBM Rational Application Developer and IBM Rational Developer for System z packages. Refer to “Installing Installation Manager” on page 17 for details on installing Installation Manager. You can install Installation Manager either interactively or silently.

There are three main tasks for silent installation:

1. Create an installation repository using the IBM Packaging Utility.
2. Create the response file.
3. Run Installation Manager in silent install mode.

Creating an installation repository using the IBM Packaging Utility

Before you create a response file and use it to run silent installations, you need to create an installation repository using the IBM Packaging Utility. The installation repository will contain the IBM Rational Application Developer and IBM Rational Developer for System z install packages. Your repository can be created on a local drive, a shared network drive, or an HTTP or HTTPS server that is accessible to other users on your network. Refer to “IBM Packaging Utility” on page 53 for details on using the Packaging Utility to create an installation repository.

Creating a response file

You can create a response file by recording your actions as you install the IBM Rational Application Developer and IBM Rational Developer for System z packages using Installation Manager. 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 containing 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 installation manager, substituting your own name and location for the response file and (optionally) the log file:

```
launcher.bat -record <response file path and name>.xml  
              -log <log file path and name>.xml
```

For example,

```
launcher.bat -record [response file path and name].xml  
              -log [log file path and name].xml
```

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

3. Install the IBM Rational Application Developer and IBM Rational Developer for System z packages using the Installation Manager GUI.
4. Exit Installation Manager.

After you exit Installation Manager, an XML response file is created and resides in the location specified in the command you use to launch Installation Manager.

A sample response file which can be used to install IBM Rational Application Developer and IBM Rational Developer for System z is provided on the first IBM Rational Developer for System z installation CD in the Silent Install directory. You can copy this file to the location where you created your installation package repository and use it to perform silent installations. Alternatively, you can copy this file to a different location and refer to “Silent installation commands” on page 49 for information on setting the repository location inside the response file.

Running Installation Manager in silent installation mode

You can run Installation Manager in silent installation mode from a command line.

Refer to the Installation Manager online help for additional documentation on how to run it in silent mode.

You run Installation Manager in silent mode by appending the `-silent` argument to the Installation Manager start command `launcher.bat`

```
launcher.bat -silent [arguments]
```

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

Table 3.

Argument	Description
-input	Specifies an XML response file as the input to Installation Manager. A response file contains commands that Installation Manager runs.
-log	(Optional) Specifies a log file that records the result of the silent installation. The log file is an XML file.

To run Installation Manager in silent installation mode:

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. Enter and run the following command, substituting your own locations for the response file and, optionally, the log file: For example, `launcher.bat -silent -input c:\mylog\responsefile.xml -log c:\mylog\silent_install_log.xml`

Installation Manager runs in silent installation mode; it reads the response file and writes a log file to the directory you specified. You must have a response file when running in silent installation mode, log files are optional. A successful install ends in a return code of 0. If the install ends with a non-zero number, the install failed. If you receive a non-zero return code, check the response file and log file for possible causes of the failure. See “Silent install log files” on page 52 for more information about log files.

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 IBM Rational Application Developer and IBM Rational Developer for System z packages. 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 install 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:

Table 4.

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 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.

Table 4. (continued)

Key	Value	Notes
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	
com.ibm.cic.common.core.preferences.eclipseCache	c:\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.repositoriesFrameUsed	True or False	Change this preference to 'False' to disable it. When 'True', all linked repositories are 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.

Silent installation commands

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

Table 5.

Response file commands	Description
Set profile <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, 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 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. Note: Separate multiple NL values with commas. <p>The following list contains the currently supported language codes:</p> <ul style="list-style-type: none"> • English (en) • French (fr) • Simplified Chinese (zh) • Traditional Chinese (Taiwan) (zh_TW) • German (de) • Japanese (ja) • Spanish (es) • Korean (ko) • Portuguese (pt_BR)
Set repositories <pre> <server> <repository location="http://xxx/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. Each repository location can be a URL or a file path.</p>

Table 5. (continued)

Response file commands	Description
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>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>
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 installation 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 offering 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>

Table 5. (continued)

Response file commands	Description
InstallAll <code><installALL/></code> Note: This command is equivalent to using <code>-silent -installAll</code>	Use this command to silently search for and install all available installable packages.
UpdateAll <code><updateALL/></code> Note: This command is equivalent to using <code>-silent -updateAll</code>	Use this command to silently search for and update all available installable packages.

Reference: Sample response file

You can use an XML-based response file to specify predefined information such as silent installation preferences, repository locations, package groups 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 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 there 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 detail analysis, you can look at the logs generated in the Installation Manager data area. By using a preference command, you can optionally set the data area to your preferred location, as shown in the response file topic.

Running Installation Manager in wizard mode

Wizard mode starts Installation Manager in either the install wizard or the uninstall wizard with your preferences and install or uninstall choices already set based on the specified response file. The response file can only contain preference commands and install or uninstall commands. You can not mix install and uninstall commands in the same response file when you run Installation Manager in wizard mode.

Enter the following command on the command line to start Installation Manager in wizard mode.

```
launcher -mode wizard -input <response file>
```

IBM Packaging Utility

You can use the IBM Packaging Utility software to copy packages to a repository that can be placed on a Web server available over HTTP or HTTPS.

The Packaging Utility software is included on the IBM Rational Auxiliary CD. If you want place a repository containing the a IBM Rational Application Developer and IBM Rational Developer for System z packages on a Web server available over HTTP, then you must use the Packaging Utility to copy the packages into the repository.

You can use this utility to perform the following tasks:

- Generate a new repository for packages.
- Copy packages to a new repository. You can copy multiple packages into a single repository, thereby creating a common location in your enterprise from which products can be installed using IBM Installation Manager.
- Delete packages from a repository.

Refer the online help for the Packaging Utility for full instructions on using the tool.

Installing the Packaging Utility

The IBM Packaging Utility must be extracted from a compressed file before it can be used to copy the IBM Rational Application Developer and IBM Rational Developer for System z packages.

Use the following steps to extract the IBM Packaging Utility software:

1. Locate the Packaging Utility compressed file on the IBM Rational Auxiliary CD. The compressed file containing the Packaging Utility is located on the IBM Rational Application Developer auxiliary CD.
 - PackagingUtility\pu.disk_win32.zip
2. Extract the files from the compressed file containing the utility into a temporary directory. Be sure to preserve the directory of the compressed files. These are the installation files you will use to install the Packaging Utility.
3. Change to the directory where you extracted the Packaging Utility installation files and start the installation program.
4. Run install_win32.exe.

5. If IBM Installation Manager is not detected on your workstation, you are prompted to install it and then the installation wizard starts. Follow the on-screen instructions in the wizard to complete the installation of Installation Manager. See “Installing Installation Manager” on page 17 for details.
6. When the installation of Installation Manager completes, or if it is already on your computer, Installation Manager starts and automatically begins the Install Packages wizard.
7. Follow the on-screen instructions in the Install Packages wizard to complete the installation.

Copying packages to a HTTP server using the Packaging Utility

If you want to create a repository on a HTTP server, then you must use the Packaging Utility to copy the IBM Rational Application Developer and IBM Rational Developer for System z packages.

Note that this method does not copy the additional software included with the IBM Rational Developer for System z installation image. Only the IBM Rational Application Developer and IBM Rational Developer for System z packages that are installed using IBM Installation Manager are copied.

Note also that the Packaging Utility can be used to combine multiple product packages, as well as service updates, into a single repository location. Refer to the *Packaging Utility* online help for more information.

To copy packages with the packaging utility:

1. If you are copying from a CD images
 - a. Insert the *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 1* into your disk drive.
 - b. If autorun is enabled on your system, the IBM Rational Developer for System z launchpad program automatically opens. Close the launchpad program.
2. Start the packaging utility.
3. On the main page of the utility, click **Copy Package**. The Prerequisite page opens and presents you with two options:
 - I will be downloading packages from IBM Web
 - I will be obtaining the packages from other sources
4. Click **I will be downloading packages from IBM Web**.

Note: You can use the I will be obtaining the packages from other sources option if you have already defined an accessible repository.
5. Click **Next** to advance to the Source page.
6. To open a repository, click **Open repository**. The Open Repository window opens.
7. To define the repository location, click **Browse**, and then navigate to and select the Repository location - either the common root directory that contains the electronic disk images or the drive containing the first product installation CD. For example, if the Developer for System z files (disk1, disk2, and so on) reside in C:\My product\unzip, you should define this location as a repository.
8. Click **OK** to define the repository location and to close the Browse to a repository directory window.

9. Select the IBM Rational Application Developer 7.0.0.3 and IBM Rational Developer for System z version 7.1 packages to be copied to the repository.
10. On the Licenses panel, read the license agreements for the selected updates. There will be a license agreement for each update you selected to install. On the left side of the License panel, click each package name to display its license agreement.
 - 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.
11. On the Destination page, click the **Browse** button and select an existing repository directory, or create a new folder to store the products.
12. Once you select a destination repository, click **OK** to close the Browse to a directory window. The file path that you just defined is listed in the Directory field on the Destination page.
13. Click **Next** to advance to the Summary page. The Summary page displays the selected packages that will be copied into the destination repository. This page also lists the amount of storage space that the copy requires, as well as the amount of available space on the drive.
14. Click **Copy** to copy the selected packages to the destination repository. A status bar appears at the bottom of the wizard indicating how much time is remaining in the copy process. Once the copy process is finished, a Complete page opens and displays all of the packages that were copied successfully.
15. Click **Done** to return to the Packaging Utility main page.

Now that you have used the Packaging Utility to copy the IBM Rational Application Developer and IBM Rational Developer for System z installation files into a repository, you can place the repository on a Web server and making the directories and files available over HTTP or HTTPS. (The repository can also be placed on a UNC drive.)

Managing licenses

You can manage the licensing for your installed products and customized packages by using the Manage Licenses wizard and associated Preferences pages. The Manage Licenses wizard displays license type and license expiration information for each of your installed packages.

IBM Rational Developer for System z and IBM Rational Application Developer install trial licenses which time out 60 days after installation. You will need to upgrade the trial licenses of IBM Rational Developer for System z and IBM Rational Application Developer by importing the product activation kit from the IBM Rational Developer for System z and IBM Rational Application Developer activation kit CD after you install the products.

License enablement

Activation kits

Product activation kits contain the permanent license keys for your trial Rational products. You import the activation kit to your product by using IBM Installation Manager. Refer to “Importing the IBM Rational Developer for System z product activation kit” on page 56 and “Importing the IBM Rational Application Developer product activation kit” on page 56 for details.

Viewing license information for installed packages

You can review license information for your installed packages, including license types and expiration dates, from IBM Installation Manager.

To view license information:

1. Start IBM Installation Manager.
2. On the main page, click **Manage Licenses**.

The package vendor, current license types, and expiration dates are displayed for each installed package.

Importing the IBM Rational Developer for System z product activation kit

After you install IBM Rational Developer for System z, you will need to upgrade the IBM Rational Developer for System z trial license to a permanent license by importing the product activation kit. You must use IBM Installation Manager to import the activation kit. The IBM Rational Developer for System z product activation kit is located on the IBM Rational Developer for System z and IBM Rational Application Developer Activation kit CD. To import the activation kit and enable the new license key:

1. Start IBM Installation Manager
2. On the main page, click **Manage Licenses**.
3. On the Install Packages page, select the IBM Rational Developer for System z package and click **Import product enablement kit**
4. Click **Next**. Details for the selected package are displayed, including the current license kind and the version range the license applies to.
5. Browse to the RDzlic.jar file on the Activation kit CD. Click **Open**.
6. Click **Next**. The Summary page displays the target install directory for the activation kit, the product the new license applies to, and version information.
7. Click **Finish**.

The product activation kit with its permanent license key is imported to the product. The Manage Licenses wizard indicates whether or not the import was successful.

Importing the IBM Rational Application Developer product activation kit

After you install IBM Rational Application Developer, you will need to upgrade the IBM Rational Application Developer trial license to a permanent license by importing the product activation kit. The IBM Rational Application Developer product activation kit is located on the IBM Rational Developer for System z and IBM Rational Application Developer Activation kit CD. To install the permanent license, you need to import the kit using IBM Installation Manager. To import the activation kit and enable the new license key:

1. Start IBM Installation Manager.
2. On the main page, click **Manage Licenses**.
3. On the Install Packages page, select a IBM Rational Application Developer and click **Import product enablement kit**.
4. Click **Next**. Details for the selected package are displayed, including the current license kind and the version range the license applies to.

5. Browse to the RADlic.jar file on the Activation kit CD. Click **Open**.
6. Click **Next**. The Summary page displays the target install directory for the activation kit, the product the new license applies to, and version information.
7. Click **Finish**.

The product activation kit with its permanent license key is imported to the product. The Manage Licenses wizard indicates whether or not the import was successful.

Silently installing the product activation kit

Product activation kits can also be installed silently just like the products themselves. The only difference is that a product activation kit is stored in a compressed repository, so the repository to which you will point IBM Installation Manager will be the compressed repository file rather than a directory. You will need to generate a response file to be used by IBM Installation Manager to install the product activation kit. Refer to “Installing silently” on page 45 for details on recording a response file and running silent installations. When recording your response file, follow the steps provided in “Importing the IBM Rational Developer for System z product activation kit” on page 56 and “Importing the IBM Rational Application Developer product activation kit” on page 56 to import the product activation kits. Your actions will be recorded in the response file, which can then be used to silently install the Developer for System z and IBM Rational Application Developer product activation kits on other systems.

Starting IBM Rational Developer for System z

You can start IBM Rational Developer for System z from the Windows desktop environment or the command-line interface.

- To start IBM Rational Developer for System z from the Windows Start menu, click **Start > Programs > (Package Group Name) > IBM Rational Developer for System z -> IBM Rational Developer for System z**
- To start IBM Rational Developer for System z from the command line, type:
`<product install directory>\eclipse.exe -product
com.ibm.websphere.developer.systemz.ide`

Modifying installations

The IBM Installation Manager Modify Packages allows you to change the content of the installed packages by adding or removing features. This functionality is available only on packages that have been installed using the IBM Installation Manager.

You may need access to the original installation media and update media to modify your installation. See the *Installation Manager help* for more information.

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

Note: You cannot modify the Eclipse location or JVM .

To modify an installed package:

1. From the main panel of Installation Manager, click the **Modify Packages** icon.

2. On the Modify Packages panel, select the package group that contains the packages you want to modify. If you need help determining what packages are installed, see “Determining what is currently installed on your system” on page 23. Click **Next** to continue.
3. On the Languages panel, select or deselect any languages you want to add or remove and click **Next**.
4. On the Features panel, the currently installed features are preselected. Select any additional features you wish to install, or deselect any of the installed features to remove them. When you have finished making your selections, click **Next** to continue.
5. On the Summary panel, review your choices before you begin modifying your installation. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your choices, Click **Modify** to make the changes you specified. The modification process begins and a progress indicator shows you the percentage of the process completed.
6. The Complete page is displayed with results.
7. Click **View Log File** to see the complete installation log.

Updating IBM Rational Developer for System z

You can use IBM Installation Manager to install product updates and new features for any packages that were installed by Installation Manager.

By default, Internet access is required to install updates unless your repository preferences point to a local or network update repository to which your system has access.. See the *Installation Manager help* for more information.

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

To find and install package updates:

1. From the main panel of the Installation Manager, click **Check for Updates**.
2. On the Check for Updates panel, select the package group that contains the packages you want to modify. If you need help determining what packages are installed, see “Determining what is currently installed on your system” on page 23. If you want to check and update all the packages, select the **Update All** check box. Click **Next** to continue.
3. Installation Manager searches the specified repository for any available updates to the installed packages. The next panel displays a list of available updates that were found.
4. By default, only the recommended updates are displayed. If you want to see all the updates for the package, click **Show All**. The updates are displayed with the required dependencies preselected.
5. Select the updates that you want to install and click **Next**.
6. On the Licenses panel, read the license agreements for the selected updates. There will be a license agreement for each update you selected to install. On the left side of the License panel, click each package name to display its license agreement.
 - 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.

7. On the Summary panel, review your choices before you begin installing the updates. If you want to change the choices you made on previous panels, click **Back** and make your changes. When you are satisfied with your installation choices, click **Update** to install the update. The update installation begins and a progress indicator shows you the percentage of the installation completed.
8. The Complete page is displayed with results.
9. Click **View Log File** link to see the complete installation log.

Uninstalling IBM Rational Developer for System z

The Uninstall option in the Installation Manager allows you to uninstall packages that were previously installed using Installation Manager.

To uninstall the packages, you must log in to the system using the same user account that you used to install the packages. Do one of the following to begin the uninstall process:

- From the Windows Add or Remove Programs screen, select IBM Rational Developer for System z (package group name) and click **Remove**. This launches IBM Installation Manager.
- From the Windows Start menu, click **Start -> All Programs -> IBM Installation Manager -> IBM Installation Manager**
 1. Close all programs that you installed using Installation Manager.
 2. From the main panel of Installation Manager, click **Uninstall Packages**.
 3. On the Uninstall Packages panel, select the packages you want to uninstall. Click **Next**.
 4. In the Packages page, select the packages you want to uninstall and click **Next**.
 5. On the Summary panel, review the packages you selected to uninstall. Click **Back** if you want to make any changes. Click **Uninstall** to begin the uninstall process.
 6. The Complete panel is displayed after the uninstallation finishes and shows the results.
 7. Click **Done**.

Installing additional software

The following additional software is included with IBM Rational Developer for System z:

Installing required System z server tools

See the *Developer for System z Host Planning Guide* for details on installing required System z server tools.

Installing IBM TxSeries for Multiplatforms

CICS(R) TxSeries for Multiplatforms provides a local CICS development platform so you can develop CICS programs.

CICS TxSeries has its own set of installation documentation, which is available on the disk with the product.

Installing IBM WebSphere Host Access Transformation Services (HATS)

With HATS, you can create Web and rich client applications that provide an easy-to-use graphical user interface (GUI) for your character-based 3270 and 5250 host applications.

HATS has its own set of installation documentation, which is available on the disk with the product.

Known problems and limitations

This section covers known problems and limitations with installation and uninstallation.

For information about product problems and limitations, refer to the `readme.html` file located in the `Documents\en` directory of the CD *IBM Rational Developer for System z and IBM Rational Application Developer Installation CD 1*.

To search for updates to Developer for System z, do the following:

1. Start the IBM Installation Manager from the Start menu (**Programs -> IBM Installation Manager -> IBM Installation Manager**)
2. Click "**Check for Updates**" on the Quick Start panel.
3. Select the desired updates from the list of available updates and follow the instructions on the screen to install.

Starting Rational Developer 7.1 from the final installation panel causes TPFSHARE environment variable error

- When you install Rational Application Developer and Developer for System z at the same time, the Complete panel at the end of the installation provides the option of launching the Rational Application Developer product after you click **Finish**. Developer for System z requires that you click **Finish** and exit IBM Installation Manager before you start the product for the first time. If you start the product from the final installation panel, you will see an error message when the product starts indicating the TPFSHARE environment variable is not set. To avoid this error, do the following:
 1. On the final installation panel, do not click Launch Rational Application Developer. Instead, click **None**.
 2. Click **Finish**.
 3. Start the IBM Rational Developer for System z product from the Windows Start menu. Select **Start > All Programs > [Package Group Name] > IBM Rational Developer for System z > IBM Rational Developer for System z**

If you do launch the product from the final installation panel and you see an error message about a missing TPFSHARE environment variable, shut down the product immediately and restart it from the Windows Start menu. Select **Start > All Programs > [Package Group Name] > IBM Rational Developer for System z > IBM Rational Developer for System z**.

If you continue to see the error message about a missing TPFSHARE environment variable even after restarting the product, restart the product again using a new workspace.

IBM WebSphere Developer for zSeries Version 6.0.1 and IBM Rational Developer for System z Version 7.1 workspace incompatibility

- Workspaces used with Rational Developer for System z 7.1 are not compatible with WebSphere Developer for zSeries 6.0.1. If you start Rational Developer for System z 7.1 using a workspace from WebSphere Developer for zSeries 6.0.1, your workspace will be migrated to work with Rational Developer for System z 7.1. If you plan to uninstall the Rational Developer for System z 7.1 update and continue to use any WebSphere Developer for zSeries 6.0.1 workspace, you should back up your WebSphere Developer for zSeries 6.0.1 workspaces before installing Rational Developer for System z.

User authorization

When you install the product, you may receive a warning message if you are not an Administrator. The message indicates that some programs may not work correctly if they are not installed by an Administrator. You should log on as an Administrator before beginning the Developer for System z installation.

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IBM Rational Developer for System z
Installation Guide
Version 7.1

Publication No. GI11-8297-00

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Along Line

Fold and Tape

Please do not staple

Fold and Tape



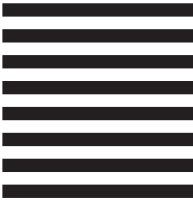
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