

IBM Rational Developer for System z
Version 8.5

Installation Guide



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Note

Before using this information, be sure to read the general information under “Documentation notices for IBM Rational Developer for System z” on page 59.

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This edition applies to IBM Rational Developer for System z Version 8.5 (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® 8.5.

This document contains information about the following tasks:

- Preparing for installation
- Installing IBM Rational Developer for System z
- Installing required and optional workstation software
- Installing System z components
- Installing RSE Server for Multiplatform
- Recognizing known problems and limitations with installation

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*, abbreviated to *CARMA*
- *IBM Rational Developer for zEnterprise™* is called *Developer for zEnterprise*.

Note: The configuration information found in this document is for IBM Rational Developer for System z Version 8.5.

The information in this document applies to all Rational Developer for System z Version 8.5 packages. References to Developer for System z also apply to Developer for zEnterprise unless otherwise noted.

Who should read this book

This book is intended for programmers installing and configuring Developer for System z 8.5 client on their workstation. To use this book, you need to be familiar with the Microsoft Windows operating system, the Red Hat Linux operating system, or the SUSE Linux operating system.

Where to find more information about Developer for System z

This document 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 `rdz85_releasenotes.html` file located in the `Documents\n1\en\readme` directory of the *IBM Rational Developer for System z Installation disc* or *IBM Rational Developer for zEnterprise Installation disc*.

See the Library page of the Developer for System z Web site: <http://www.ibm.com/software/rational/products/developer/systemz/library/index.html> for updated documentation and troubleshooting information.

Chapter 1. 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 built on the Eclipse platform (www.eclipse.org). Think of the Eclipse platform as the framework and Developer for System z and other bundled offerings as the tool contributors.

Preinstallation tasks

About this task

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

1. Confirm that your system meets the requirements described in the section Chapter 2, "Client installation requirements," on page 3.
2. Confirm that your user ID meets the required access privileges for installing the product. See "User privileges requirements" on page 8.
3. Read the section Chapter 3, "Planning to install," on page 9.
4. Upgrade the Rational License Key Server to version 8.1.2.

Note: If you use floating licenses for Rational Developer for System z (including token licenses), then you must upgrade your license key server to Rational License Key Server, Version 8.1.2, before installing the product. Rational License Key Server, Version 8.1.2 can be used with earlier versions of the product. For information about how to upgrade from v7.1.x or an earlier Rational License Key Server to v8.1.2, see Migrating to Rational Common Licensing (http://publib.boulder.ibm.com/infocenter/rational/v0r0m0/index.jsp?topic=/com.ibm.rational.license.doc/topics/r_migration.html).

5. Disable antivirus and malware detection software before performing the install or uninstall.

Note: Some antivirus and malware detection software occasionally locks certain files, especially .dll files, which interferes with installation and uninstallation operations. When .dll or other files are locked by these programs, installations and uninstallations will fail with errors indicating that files could not be removed.

Chapter 2. Client installation requirements

About this task

To prepare for installation, you need to confirm the following:

- Media requirements
- Hardware and software requirements

Media requirements

You can match references to physical discs with references to electronic image directories as shown in the following table:

Table 1. Disc name and electronic image references

Disc Name	Electronic Image Directory Name
<i>IBM Rational Developer for System z Installation disc</i>	<ul style="list-style-type: none">• RDz85_Setup• RDz85\disk1• RDz85_RTCz\disk1• RTC301\disk1• RTC40\disk1
<i>IBM Rational Developer for zEnterprise Installation disc</i>	<ul style="list-style-type: none">• RDz85Ent_Setup• RDz85Ent\disk1• RDz85_RTCz\disk1• RTC301\disk1• RTC40\disk1
<i>IBM Rational Developer for System z z/OS® Server Installation disc</i>	<ul style="list-style-type: none">• RDz85_zOS_SMPE
<i>IBM Rational Developer for zEnterprise z/OS and Multiplatforms Server Installation disc</i>	<ul style="list-style-type: none">• RDz85_zOS_SMPE• RDz85Ent_RSE
<i>IBM Rational Developer for System z Quick Start and Documentation disc</i>	<ul style="list-style-type: none">• RDz85_QuickStart• RDz85_Documentation
<i>IBM Rational Developer for zEnterprise Quick Start and Documentation disc</i>	<ul style="list-style-type: none">• RDz85Ent_Documentation• RDz85Ent_QuickStart

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

- Developer for System z installation disc:
 - *IBM Rational Developer for System z Installation disc* or *IBM Rational Developer for zEnterprise Installation disc*
- Developer for System z electronic image

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:

- RDz85_Setup

- RDz85\disk1
- Or:
- RDz85Ent_Setup
 - RDz85Ent\disk1

In order to install required System z components on the System z host, you must have access to either of the following media:

- Developer for System z installation disc:
 - *IBM Rational Developer for System z Server for z/OS Server Installation disc* or *IBM Rational Developer for zEnterprise Server for z/OS and Multiplatforms Server Installation disc*
- 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:

 - RDz85_zOS_SMPE
 - RDz85Ent_RSE

For instructions on installing the host code, see the installation configuration documentation found in the related product directory:

- RDz85_zOS_SMPE for z/OS systems
- RDz85Ent_RSE for Linux systems

Media for additional offerings

In addition to the Developer for System z media, you might have additional installation media for other offerings that are bundled with Developer for System z. This might include IBM Rational Business Developer or IBM Rational Application Developer. The bundled software you have will depend on which edition of Developer for System z you purchased. For the remainder of this document, these offerings that are bundled with Developer for System z will be referred to as the *bundled offerings*.

In order to install the Rational Team Concert™ Integration extension, you must have access to either of the following media:

- IBM Rational Developer for System z installation discs
 - *Rational Developer for System z Installation disc* or *Rational Developer for zEnterprise Installation disc*

- IBM Rational Developer for System z electronic images

Once you have downloaded the Developer for System z electronic images, the following directory applies to installing the extension:

 - RDz85_RTCz\disk1

See “Installing the Rational Team Concert Integration extension” on page 53 for details on installing this software.

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*. The Prerequisites document contains the most current information about hardware and software requirements. A link to the Prerequisites document can be found on the library page of the Developer for System z Web site:

<http://www.ibm.com/software/rational/products/developer/systemz/library/index.html>.

Client prerequisites for Developer for System z

Developer for System z is a licensed program to support users who want 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	1 GHz or faster 32-bit (x86) or 64-bit (x64) processor A dual or quad core is recommended.
Memory	2 GB RAM minimum Recommended: 3GB RAM or more
Disk space	1 GB of disk space, plus 200 MB of temporary space, is required to install the IBM Rational Developer for System z with the minimum set of features. 1.8 GB of disk space, plus 200 MB of temporary space, is required for a full installation of IBM Rational Developer for zEnterprise An additional 210 MB of disk space is required to install IBM Installation Manager if it is not already installed on your system. The amount of disk space required can vary significantly when installing other bundled software offerings. <ul style="list-style-type: none">• Disk space requirements can be reduced depending on the features that you install.• Additional disk space is required for the resources that you develop.• Additional disk space is required to store the installation media if you download the electronic images to install Developer for System z and other bundled offerings.• Additional disk space is required if you use FAT32 file system instead of an NTFS file system on Windows.
Display	1024 x 768 resolution using 256 colors A higher resolution and color palette is recommended.
Other hardware	Microsoft mouse or compatible pointing device

Workstation prerequisites

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	PTFs or Service Levels Required
Microsoft Windows XP Professional	Service Pack 3 or later
Microsoft Windows Server 2008 Enterprise Edition	Service Pack 2 or later
Microsoft Windows Server 2008 Standard Edition	Service Pack 2 or later
Microsoft Windows Server 2008 R2 Enterprise Edition	Service Pack 1 or later
Microsoft Windows Server 2008 R2 Standard Edition	Service Pack 1 or later
Microsoft Windows Vista Business	Service Pack 2 or later
Microsoft Windows Vista Enterprise	Service Pack 2 or later
Microsoft Windows Vista Ultimate	Service Pack 2 or later
Microsoft Windows 7 Professional Edition	Service Pack 1 or later
Microsoft Windows 7 Enterprise Edition	Service Pack 1 or later
Microsoft Windows 7 Ultimate Edition	Service Pack 1 or later
Red Hat Linux Desktop v 5.0	All available service recommended
Red Hat Linux Desktop v 6.0	All available service recommended
Red Hat Linux Desktop v 6.0 64 bit	No service level required
Red Hat Linux Enterprise Server v 5.0	All available service recommended
Red Hat Linux Enterprise Server v 6.0	All available service recommended
Red Hat Linux Enterprise Server v 6.0 64 bit	No service level required
SUSE Linux Enterprise Server v 10.0	All available service recommended
SUSE Linux Enterprise Server v 11.0	All available service recommended
SUSE Linux Enterprise Desktop v 10.0	All available service recommended
SUSE Linux Enterprise Desktop v 11.0	All available service recommended

Note:

1. Creating Windows COBOL or PL/I binaries using Developer for zEnterprise compilers is not supported in Windows 7, Windows Server 2008 R2, or Linux. Please use another supported operating system in order to take advantage of this functionality. This functionality is only available in Developer for zEnterprise.
2. Developer for System z language support is dependent on the previously listed operating systems having the base language support.
3. Developer for System z was developed for use with Eclipse IDE version 3.6.2 that uses at least version 1.6 of the IBM Java Development Kit (JDK). You can only extend an existing Eclipse IDE that meets these requirements.

Hosted Development Environments/Virtualization Support:

Product Name	Version	PTFs or Service Levels required
Citrix® (32 bit and 64 bit)	Presentation Server 4.X	all available maintenance
VMware®	Server version 2.0, Workstation	all available maintenance
VMware®	vSphere 4.0 ESXi	all available maintenance

Note: Developer for System z supports running under the Citrix virtual environment using 64 bit Windows in 32 bit mode compatibility.

For additional information about Software support services for IBM SWG products in a virtualization environment, see Software support for IBM SWG products in a VMware environment.

Workstation corequisites

Developer for System z requires the software listed in this section to be installed as a corequisite to installation depending on the Developer for System z functions you select to install.

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

TXSeries for Multiplatforms:

Note: There is no TXSeries support on the Developer for System z Linux client.

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

Program Number	Product Name	PTFs or Service Levels Required
5724-B44	TXSeries for Multiplatforms v 7.1	all available maintenance
5655-M15	TXSeries for Multiplatforms v 6.2	all available maintenance
5655-M15	TXSeries for Multiplatforms v 6.1	IZ00893

The related product Web site is as follows:

<http://www.ibm.com/software/htp/cics/txseries/>

DB2 for Windows:

To support applications with embedded SQL statements, one of the following levels must be installed:

Program Number	Product Name	PTFs or Service Levels Required
5765-F35	DB2® Workgroup Server Edition v 9.7	
5724-B55	DB2 Connect Personal Edition v 9.7	
5765-F41	DB2 Enterprise Server Edition v 9.7 for Windows	

The related product Web site is:

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

Note: DB2 Workgroup Server Edition v9.7 is required for precompilation and DB2 Connect™ Personal Edition v9.7 is required for access to host databases.

Web Browser:

To view the readme files and the installation guide, one of the following Web browsers must be installed:

Product Name	PTFs or Service Levels Required
Microsoft Internet Explorer 7.0 or later	all available maintenance
Firefox 1.5.x or later	all available maintenance

Adobe Acrobat Reader:

The following software must be installed to properly view product documentation PDFs:

Product Name	PTFs or Service Levels Required
Adobe Acrobat 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 Developer for System z.

- Your user ID must not contain double-byte characters.
- To install for all users of the system, you must have an ID that belongs to the Administrators group. If you do not have Administrator privileges, you can only install for the current user.

Chapter 3. 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 following:

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

The typical installation methods you might use are the following:

- Installing from the installation discs
- Installing from a downloaded electronic image on your workstation
- Installing from an electronic image on a shared drive
- Installing from a repository on an HTTP server

Note: With the latter three methods you could choose to run the Installation Manager program in silent mode to install Developer for System z. For details on running Installation Manager in silent mode, see “Silent installation” on page 29.

Installing from installation discs

With this method, you have the installation discs containing the installation files, and typically you are installing Developer for System z on your own workstation. Refer to “Overview: Installing Developer for System z from the installation discs” on page 21 for an overview of the steps.

Using electronic images

Extracting electronic images

If you download the installation files from IBM Passport Advantage, you must extract the electronic images from the compressed files for Developer for System z and any bundled offerings you wish to install before you can begin the installation. Developer for System z electronic images are packaged as zip files.

Installing from a downloaded electronic image on a workstation

With this method, you have downloaded the installation files from IBM Passport Advantage and you will install Developer for System z on your own workstation. Refer to “Overview: Installing Developer for System z from an electronic image on your workstation” on page 22 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 Developer for System z from a single location. Refer to “Overview: Installing Developer for System z from an electronic image on a shared drive” on page 23 for an overview of the steps.

Installing from a repository on an HTTP server

This method provides an alternative way to install across a network. This differs from the previous method because, in order to place installation files for Developer for System z on an HTTP Web server, you must use a utility application - IBM Packaging Utility - which is provided with the Developer for System z installation media on the Rational Enterprise Deployment disc. IBM Packaging Utility is used to copy the installation files in a package format that can be used for installing Developer for System z directly from an HTTP Web server. The directory on the HTTP Web server that contains the package is called a repository. The same repository can also be used for other offerings, as well as future service updates. Refer to “Overview: Installing Developer for System z from a repository on a HTTP Web server” on page 23 and “Overview: Placing Developer for System z on an HTTP Web server” on page 24 for an overview of the steps.

Feature installation

You can customize your Developer for System z installation by selecting which features and bundled offerings you want to install. The Developer for System z launchpad provides you with the option of a guided installation or an expert installation.

For more information about the Developer for System z launchpad program, refer to “Using the launchpad program” on page 24.

Installation Manager automatically enforces any dependencies between features and prevents you from deselecting any features that are required.

Note: 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 Chapter 8, “Modifying installed packages,” on page 45 for more information.

Features for Developer for System z

The following table shows the features of Developer for System z that you can choose to install. For information about the available features of other offerings that are bundled with Developer for System z, see the documentation for those offerings.

Table 2. Developer for System z features

Feature	Description
C and C++ Development Tools for AIX® Note: This feature is available in Developer for zEnterprise only.	Provides tools to edit, compile, and debug C/C++ programs for AIX.
C and C++ Development Tools for Linux Note: This feature is available in Developer for zEnterprise only.	Provides tools to edit, compile, and debug C/C++ programs for Linux.

Table 2. Developer for System z features (continued)

Feature	Description
COBOL Development Tools for AIX Note: This feature is available in Developer for zEnterprise only.	Provides tools to edit, compile, and debug COBOL programs for AIX.
System z Integrated Development Environment (required)	<p>Provides an interactive, workstation-based environment where you can connect to a mainframe and develop mainframe-based applications in COBOL, PL/I, Assembler, C/C++, and Java.</p> <p>In Developer for zEnterprise, this feature also supports developing workstation-based applications in COBOL, PL/I, and Java, and includes connectivity to other environments, such as AIX® and Linux on System z</p>
COBOL and PL/I for Windows [Deprecated]** ** See explanatory note after this table. Note: This feature is now only available in the Developer for zEnterprise offering.	<p>Enables creation of Windows binaries for COBOL and PL/I programs for use in unit testing applications locally with Windows shell scripts or in the CICS TXSeries runtime. This feature is not required for local syntax check; the local syntax check capability is enabled by selection of the System z Integrated Development Environment feature.</p> <p>This feature is no longer being enhanced and will be removed in a future version of Rational Developer for zEnterprise. For more information, please see the IBM Rational Developer for System z support web site: http://www.ibm.com/software/awdtools/rdz/support</p>
Code Analysis	Inspects your code for compliance with rules and best practices. Code review highlights potential problems and recommends code changes for improved quality.
Line-Level Code Coverage	Provides tools to measure and report on test coverage of an application. Reports indicate which source code lines have been tested and which lines remain to be tested.
IBM z/OS Automated Unit Testing Framework (zUnit)	Provides a code-driven unit testing framework for Enterprise COBOL and PL/I. The IBM z/OS Automated Unit Testing Framework (zUnit) provides an automated solution for executing and verifying Enterprise COBOL and PL/I unit test cases that are written using the zUnit framework.
System z Code Generators	Provides design tools and wizards that allow you to rapidly create System z application code skeletons and logic from UML models or user-provided input.
SCLM Developer Toolkit	Provides tools to access and work with source code managed by Software Configuration and Library Manager (SCLM).

Table 2. Developer for System z features (continued)

Feature	Description
Rational ClearCase® SCM Adapter	Provides the IBM Rational ClearCase SCM and ClearCase MVFS plug-ins, which enable versioning of software artifacts in ClearCase versioned object bases (VOBs) using snapshot views and dynamic views when ClearCase VOB and view servers are also installed.
CA Endeavor Software Change Manager	Provides tools to access and work with source code managed by CA Endeavor Software Change Manager.
Enterprise Service Tools for CICS (including Service Component Architecture)	Enterprise Service Tools for CICS provide an integrated set of tools that support modern application architectures and the transformation and reuse of existing CICS application processes. The tools support generation of Web service descriptions and service flow processing artifacts directly to a z/OS system, including CICS TS and the CICS Service Flow Runtime. Enterprise Service Tools quickly enable the move towards service-oriented architecture (SOA).
BMS Screen Designer	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.
CICS Code Generators	Provides design tools and wizards that allow you to rapidly create CICS Transaction Server application code skeletons and logic from UML models or user-provided input, for example, using UML models or database schema definitions to generate CICS transactions which provide Create, Read, Update, and Delete interfaces to DB2 tables.
Enterprise Service Tools for IMS™	Enterprise Service Tools for IMS provide an integrated set of tools that support modern application architectures and the transformation and reuse of existing IMS application processes. The tools support generation of Web service descriptions and processing artifacts directly to a z/OS system, including the IMS SOAP Gateway and IMS info 2.0 applications. Enterprise Service Tools quickly enable the move towards service-oriented architecture (SOA).
MFS Screen Designer	Enables you to create and modify Message Format Service (MFS) message and format files. Many Information Management System (IMS) programs are based on MFS, which is an IMS Transaction Manager environment facility that formats messages to and from terminal devices.
IMS Code Generators	Provides code snippets that allow you to rapidly add common programming objects to IMS application code.

Table 2. Developer for System z features (continued)

Feature	Description
Data Tools	Provides relational database tools to work with tables, table views, and filters. With these tools, you can create physical database models by means of reverse engineering database tables or using DDL scripts. You can also use the tools to create SQL statements, DB2 routines (such as stored procedures and user-defined functions), and several types of files, including SQLJ, SQL DDL, and XML files.
System z Stored Procedures	Enables you to create and test DB2 stored procedures written in COBOL, PL/I, Java, or SQL, and deploy them directly to a z/OS system.
Fault Analyzer (available only on Windows)	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
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 you can use as a framework for accessing and interfacing with custom source control management systems.
Plug-in Development Environment (PDE)	Provides tools for creating, developing, testing, debugging, and deploying Eclipse plug-ins, which you can use to extend the IBM Software Delivery Platform Eclipse environment.

Note: ** COBOL and PL/I for Windows is not available on Windows 7, Windows 2008 R2, or Linux platforms.

Chapter 4. IBM Installation Manager

IBM Installation Manager is a program that installs Developer for System z and other 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.

For the most current information on the IBM Installation Manager, see the Installation Manager information center at:

<http://publib.boulder.ibm.com/infocenter/install/v1r5/index.jsp>

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.

For information about how to deploy Developer for System z to many users, see the information available in the "Enterprise installation articles" section of the Installation Manager Information Center at

<http://publib.boulder.ibm.com/infocenter/install/v1r5/topic/com.ibm.im.articles.doc/topics/articles.html>

and on the Rational Installation Wiki on developerWorks® at

<https://www.ibm.com/developerworks/wikis/display/rationalinstall/Home>

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

- The Install wizard walks you through the installation process. You can install a package by accepting the defaults, or you can change the default settings to customize an installation. Before you install a package, you see a summary of your selections throughout the wizard. Using the wizard, you can install one or more packages at one time.
- The Update wizard searches for available updates to packages that you have installed. An update might be a released fix, a new feature, or a new version of the product. Details of the contents of the update are provided in the wizard. You can decide whether to apply an update.
- With the Modify wizard, you can change certain elements of a package that you have installed. During the first installation of the package, you select the features to install. If you require other features later, you can use the Modify wizard to add the features. You can also remove features.
- The Manage Licenses wizard helps you 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 the type of license to use for each package.

- The Import wizard adds packages that were installed by using installation tools other than Installation Manager to the list of installed packages.

Installation Manager tracks the products that it installs, including selectable features and maintenance updates for products. Earlier versions of some products that can be installed with Installation Manager might have been installed with different installation technology. Installation Manager must import information about existing installations of these products before Installation Manager can modify and update the products.

Note: This wizard is available only after Installation Manager detects a package in a repository that requires this feature.

- The Roll Back wizard enables you to revert to a previous version of a package.
- The Uninstall wizard removes a package from your computer. You can uninstall more than one package at a time.

Installing Installation Manager

About this task

IBM Installation Manager is typically installed automatically as part of the Developer for System z installation process.

If you need to install IBM Installation Manager by itself, without installing Developer for System z, you can find it in the `InstallerImage_<platform>` directory on the IBM Rational Developer for System z Installation Setup disc, or in the `RDz85_Setup` directory if you downloaded an electronic image, where *platform* is the platform on which you are installing (for example, *win32* or *linux*). You can install Installation Manager directly from the installation media, or copy the `InstallerImage_<platform>` directory to a shared location where it can be accessed by others.

1. Change to the `InstallerImage_<platform>` directory.
2. To install as administrator for all users on the system, run the following command:

Windows

```
install.exe
```

Linux

```
install
```

To install as a non-administrator for the current user only, run the following command:

Windows

```
userinst.exe
```

Linux

```
userinst
```

3. On the first page of the Install Packages wizard, click **Check for Other Versions and Extensions** to install the latest available version. If a newer version is available, it is automatically selected for installation. Click **Next**.

4. On the Licenses page, read the license agreements for IBM Installation Manager. If you agree to the terms of all the license agreements, click **I accept the terms in the license agreements** and then click **Next**.
5. On the Location page, in the "Installation Manager Directory" field, type the path type the path for the directory where you want to install Installation Manager or accept the default path. Then click **Next**.
6. On the Summary page, review your choices before starting the installation process. If you want to change your selections, click **Back** to return to the previous pages. When you are satisfied with your selections, click **Install**.

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

1. Open a command prompt or terminal window and change to the `InstallerImage_platform` directory (where *platform* is the platform on which you are installing).
2. To install silently as administrator for all users on the system, run the following command:

Windows

```
installc.exe -acceptLicense
```

Linux

```
install -acceptLicense
```

To install as a non-administrator for the current user only, run the following command:

Windows

```
userinstc.exe -acceptLicense
```

Linux

```
userinst -acceptLicense
```

Note: By providing the `-acceptLicense` command line option you indicate that you accept the terms of the IBM Installation Manager license agreement.

Starting Installation Manager

About this task

IBM Installation Manager is installed and started automatically when you perform the Developer for System z installation.

If you need to start Installation Manager manually to update, modify, roll back, or uninstall packages following the installation, do the following:

Windows

1. Open the Start menu from the Taskbar.
2.
 - For an administrator installation, select **All Programs -> IBM Installation Manager -> IBM Installation Manager**.

- For a non-administrator installation, select **All Programs -> My IBM Installation Manager -> IBM Installation Manager**

Linux

1. Open a terminal window.
2. Change to <Installation Manager install directory>/eclipse
3. Run ./IBMIM

Uninstalling Installation Manager

About this task

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

Windows

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

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.

Linux

Perform the following steps to uninstall Installation Manager:

1. Open a terminal window.
2. Run `/var/ibm/InstallationManager/uninstall/uninstall`.

Using Installation Manager

Installation repositories

Installable offerings, or packages, are stored in locations called repositories, which can be on an HTTP Web server, shared network drive, physical discs, or your local machine. Installation Manager retrieves packages from these repositories to install them on your system.

When you launch the installation of Developer for System z from the launchpad program, the necessary repository information is passed to Installation Manager automatically. Anytime you start Installation Manager manually from the Windows Start menu, you must specify the repositories that contain the packages you want to install in the Installation Manager repository preferences so that Installation Manager knows where to look for them. See “Setting repository preferences in Installation Manager” on page 19 for more details.

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 package you install to connect to a repository server through the Internet and search for installable packages, such as service updates and new features.

Setting repository preferences in Installation Manager

About this task

When you start the installation of Developer for System z from the launchpad program, the necessary repository information is automatically passed to Installation Manager when it starts. However, if you start Installation Manager manually from the Windows Start menu, for example to install packages from a repository located on a Web server, then you must add the repository location in the Installation Manager preferences before you can install the package. This is done on the Repositories panel of the Preferences window in Installation Manager. By default, 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, take the following steps:

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 Developer for System z 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 Developer for System z and any other bundled offerings you are installing. A package group represents a directory in which packages share resources with other packages in the same group. This is known as shell sharing. When you install Developer for System z and any bundled offerings 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: Under most circumstances, 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.

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

Shared resources directory

The shared resources directory is the directory where resources that can be shared by different packages, potentially in different package groups, are stored. Using a common location for these resources allows Installation Manager to install only one copy of each of these resources to conserve disk space, rather than installing separate copies of the same resources when they are used by multiple packages.

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

Extending an existing Eclipse IDE

The Developer for System z package includes a version of the Eclipse integrated development environment (IDE), or workbench, which is installed when you install Developer for System z. However, if you have an existing Eclipse integrated IDE that is already installed on your workstation, you have the option to extend that IDE by adding the Developer for System z functionality to the existing environment.

During the Developer for System z installation, select the **Extend an existing Eclipse IDE** option on the Location page of the Install Packages wizard to extend an existing Eclipse IDE. You will be asked for the location of your existing Eclipse IDE as well as the Java Virtual Machine (JVM) that you want to use.

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

Your existing Eclipse IDE must be version 3.6.2 and must use at least version 1.6 of the IBM Java Development Kit (JDK) to be extended. Installation Manager checks that the Eclipse environment you specify meets the requirements for the installation package. If the requirements are not met, you will not be able to extend that Eclipse IDE.

Chapter 5. Installing Developer for System z

Installation tasks summary

The following sections provide an overview of the various installation methods you might use when installing Developer for System z.

All references to IBM Rational Developer for System z Installation disc also apply to IBM Rational Developer for zEnterprise Installation disc unless otherwise noted. All references to RDz85_Setup directory also apply to RDz85Ent_Setup directory unless otherwise noted.

Overview: Installing Developer for System z from the installation discs

About this task

In this installation scenario, you have the physical discs containing the installation files, and typically you are installing Developer for System z on your own workstation.

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

1. Complete the preinstallation steps listed in “Preinstallation tasks” on page 1.
2. Insert the *IBM Rational Developer for System z Installation disc* into your DVD drive.
3. If autorun is enabled on your system, the Developer for System z launchpad program automatically opens. If autorun is not enabled, start the launchpad program by running the following command from the root of the disc:

Windows

```
l launchpad.exe
```

Linux

```
l launchpad.sh
```

See “Using the launchpad program” on page 24 for details.

4. Choose **Install Rational Developer for System z**.
5. Decide whether you want to do an expert installation or a guided installation of Developer for System z. A guided installation uses an installation wizard to help you decide which features to install. An expert installation starts with the most common features selected and lets you decide on your own which features you want to install. For details, see “Using the launchpad program” on page 24.
6. Follow the on-screen instructions in the IBM Installation Manager Install Packages wizard to install Developer for System z and any bundled offerings. Refer to “Working with Installation Manager” on page 26 for details.
7. Configure your licenses for Developer for System z and any bundled offerings you installed as needed. If you have a trial license and need to configure a term or permanent license, or if you want to configure floating licenses, do so now. See “Managing licenses” on page 35 for details.

8. Install additional software included with Developer for System z. For more information, see Appendix A, “Installing additional software,” on page 53.

Overview: Installing Developer for System z from an electronic image on your workstation

About this task

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

1. Ensure that your workstation has sufficient space to store both the files you must download from IBM Passport Advantage, the extracted installation image, and the offerings you plan to install. See “Hardware requirements” on page 5.
2. Download all required parts for Developer for System z and any bundled offerings you wish to install from IBM Passport Advantage to a temporary directory.
3. Extract the installation image from the compressed files you downloaded and verify the installation image is complete. See “Extracting electronic images” on page 9 for details.
4. Continue with the steps in “Installing from an electronic image,” below.

Installing from an electronic image

About this task

Take the following steps:

1. Complete the pre-installation steps listed in “Preinstallation tasks” on page 1.
2. Start the launchpad program by running the following command from the root of the RDz85_Setup directory:

Windows

```
launchpad.exe
```

Linux

```
launchpad.sh
```

Refer to Chapter 5, “Installing Developer for System z,” on page 21 for details.

3. Choose **Install Rational Developer for System z**.
4. Decide whether you want to do an expert installation or a guided installation of Developer for System z. A guided installation uses an installation wizard to help you decide which features to install. An expert installation starts with the most common features selected and lets you decide on your own which features you want to install. For details, see Chapter 5, “Installing Developer for System z,” on page 21.
5. Follow the on-screen instructions in the IBM Installation Manager Install Packages wizard to install Developer for System z and any bundled offerings. Refer to “Working with Installation Manager” on page 26 for details.
6. Configure your licenses for Developer for System z and any bundled offerings you installed as needed. If you have a trial license and need to configure a term or permanent license, or if you want to configure floating licenses, do so now. See “Managing licenses” on page 35 for details.

7. Install additional software included with Developer for System z. For more information, see Appendix A, “Installing additional software,” on page 53.

Overview: Installing Developer for System z from an electronic image on a shared drive

About this task

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 Developer for System z and any bundled offerings from a single location. This is also useful when you need to perform silent installations on a number of user systems. 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 Developer for System z and any bundled offerings from IBM Passport Advantage to a temporary directory on the shared drive.

Note: You can 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 electronic images” on page 9 for details.

To install Developer for System z interactively from the installation files on the shared drive, take the following steps:

1. Change to the RDz85_Setup directory on the shared drive containing the installation image.
2. Follow the steps in “Installing from an electronic image” on page 22 to install Developer for System z and any bundled offerings.

For information about performing silent installations using your shared electronic image, refer to “Silent installation” on page 29.

Overview: Installing Developer for System z from a repository on a HTTP Web server

About this task

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 Developer for System z and any bundled offerings has been created on the HTTP Web server. Refer to “Overview: Placing Developer for System z on an HTTP Web server” on page 24 for details on copying the installation packages to an HTTP Web server.

To install the Developer for System z package from a repository on an HTTP server, take the following steps:

1. Complete the pre-installation steps listed in “Preinstallation tasks” on page 1.

2. Install IBM Installation Manager. Refer to “Installing Installation Manager” on page 16.
3. Start Installation Manager. Refer to “Starting Installation Manager” on page 17 for details.
4. Add the URL of the repository containing the Developer for System z package to the repository preference in Installation Manager. See “Setting repository preferences in Installation Manager” on page 19.
5. Click **Install** to start the Install Packages wizard in Installation Manager, and follow the on-screen instructions to complete the installation.
6. Configure your licenses for Developer for System z and any bundled offerings you installed as needed. If you have a trial license and need to configure a term or permanent license, or if you want to configure floating licenses, do so now. See “Managing licenses” on page 35 for details.
7. Install additional software included with IBM Rational Developer for System z. For more information, see Appendix A, “Installing additional software,” on page 53.

Overview: Placing Developer for System z on an HTTP Web server

You can place the Developer for System z install package, as well other offering packages, on an HTTP Web server by using the IBM Packaging Utility to create an installation repository. You may want to do this if you have a number of different offerings or service updates you want to place in a single repository in addition to the Developer for System z 8.5 offering and its bundled offerings. You can use this repository to perform interactive or silent installations.

Note: While you can perform silent installations from a repository on an HTTP web server, this step is not required to perform silent installations.

To place packages on an HTTP Web server you will use the IBM Packaging Utility to create a new installation repository or copy to an existing repository. For detailed instructions on installing and using IBM Packaging Utility, see the Installation Manager information center, at <http://publib.boulder.ibm.com/infocenter/install/v1r5/index.jsp>. The "Managing packages with Packaging Utility" topic at http://publib.boulder.ibm.com/infocenter/install/v1r5/topic/com.ibm.cic.auth.ui.doc/topics/c_modes_pu.html contains the most current information.

Once you have created your repository, you can do the following:

1. Provide users in your enterprise with the URL of the installation repository. Users can point to the repository and perform installations without having the installation media on their systems.
2. Use the repository to perform silent installations. Refer to “Silent installation” on page 29 for details on running silent installations.

Using the launchpad program

The Developer for System z launchpad program provides you with a single location to view release information and begin the installation process.

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

- You are installing from the product installation discs.

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

When you start the installation from the launchpad program, IBM Installation Manager will be launched with the necessary repository location information automatically configured. This prevents you from having to set the repository location manually in the Installation Manager preferences.

On the *Install Rational Developer for System z* panel of the launchpad, you can decide to install for all users (which requires you to have administrator access), or you can just install for the current user. Then you click on one of the provided links to start either a guided installation or an expert installation.

You can select to perform an expert installation rather than selecting a guided installation. Selecting an expert installation will launch the Developer for System z installation with the most common features and bundled offerings selected by default.

Note: No matter which installation option you select from the launchpad program, you can always customize the set of features to be installed by selecting and deselecting additional features on the Features panel in Installation Manager.

To start the Developer for System z installation from the launchpad program as an administrator, take the following steps:

1. Complete the preinstallation tasks described in “Preinstallation tasks” on page 1, if you have not done so already.
2. If you are installing from the installation discs, insert the IBM Rational Developer for System z Installation Setup disc into your DVD drive. If you are installing from an electronic image, open the RDz85_Setup directory.
3. If auto-run is enabled on your system, the launchpad program will start automatically when you insert the IBM Rational Developer for System z Installation Setup disc into your DVD drive. If auto-run is not enabled on your system or you are installing from an electronic image, start the launchpad program by running the following command from the root of the disc or the RDz85_Setup directory:

-  launchpad.exe
-  launchpad.sh

4. Read the Welcome information on the **Welcome** panel and select the **Product documentation** selection on the left to see the available documentation. Click the links on the panel to view the product documentation.
5. To install IBM Rational Developer for System z, click the **Install IBM Rational Developer for System z** selection on the left. Click the **Install for all users** radio button if you are installing for all users. Click the **Install for the current user** radio button if you are installing only for the current user. Decide if you want to start a guided installation or an expert installation and click the corresponding link.
- 6.

- a. If you want start a guided installation of IBM Rational Developer for System z, click the **Start guided installation** link. This launches the Developer for System z installation wizard. On the installation wizard, you can select the features you want to install by checking the boxes that correspond to those features. Then click on the link at the bottom of the panel to continue the guided (or custom) installation.
 - b. If you want start an expert installation of IBM Rational Developer for System z, click the **Start expert installation** link.
7. IBM Installation Manager will be launched to perform the installation of Developer for System z and any bundled offerings you choose to install. Follow the prompts in the Install Packages wizard to complete the installation. For more details, refer to “Working with Installation Manager.”

Note: There is also an **Install optional software** selection on the left of the launchpad panel. Click on that selection if you want to install optional software such as:

- TXSeries for Multiplatforms v7.1
- DB2 Connect

Working with Installation Manager

About this task

When you launch the Developer for System z installation from the launchpad program (see “Using the launchpad program” on page 24), IBM Installation Manager will start and you will be presented with the Install Packages wizard. The following steps will guide you through using the Install Packages wizard of Installation Manager to install Developer for System z:

Procedure

1. The first panel of the wizard displays a list of the packages that are available for installation. The available packages will include Developer for System z and any bundled offerings that are recommended based on your selections from the launchpad. Refer to “Using the launchpad program” on page 24 for more details about the launchpad program. The available bundled offerings will vary depending on the edition of Developer for System z you purchased.
2. You might be prompted to update IBM Installation Manager to a newer version if one is available. If prompted, click **Yes** to install the update, or click **No** if you want to install the newer version later. If you click **Yes**, Installation Manager updates itself and informs you that it must restart to complete the update.
Click **OK** to restart Installation Manager
3. 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 **Licenses** 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.
4. On the **Location** panel, you will be asked to choose the location to use for the shared resources directory, if you do not have any other packages already installed on your system. Enter the path of the shared resources directory you want to use in the “Shared Resources Directory” field. If you are also installing

Installation Manager along with Developer for System z, enter the location where you want to install Installation Manager in the "Installation Manager Directory" field. You should select a location on your largest drive for the shared resources directory, because it will be used by every package you install using Installation Manager, and it cannot be changed after the first package is installed. If you already have one or more packages installed on your system, Installation Manager will display the location of the shared resources directory, but you will not be given the option to select or change it.

Note: To change the location of the shared resources directory at a later time, you must uninstall all packages and then re-install them, specifying a new shared resources directory.

When you have finished making your selections, click **Next** to continue.

5. On the next **Location** panel, Installation Manager gives you the option of either creating a new package group to contain the Developer for System z package, or using an existing package group on your system. When you install packages into the same package group they share a common workbench, and the functionality from the different packages is combined in that workbench. This is known as shell sharing. Packages that are installed into different package groups do not share a workbench and are kept separate from each other.

To create a new package group for Developer for System z:

- a. Select the radio button labeled **Create a new package group**.
- b. Enter the installation directory you want to use for the new package group. This directory is where resources will be stored which are specific to the packages installed in the package group. Each package group you create on your system has a separate installation directory. This directory is different from the shared resources directory, where resources are installed that can be shared by packages in different package groups.
- c. If you are installing on a 64-bit operating system, you can choose whether to create a 32-bit or 64-bit package group by selecting the corresponding radio button below the Installation Directory field. If you select the 32-bit package group, the installed packages will run in 32-bit mode.

Note: You cannot change the bit mode of an existing package group after it has been created. Some software packages may support only 32-bit or 64-bit modes and can only be installed into a package group configured for the same architecture.

To install Developer for System z into an existing package group:

- a. Select the radio button labeled **Use an existing package group**.
- b. Installation Manager will display a list of the available package groups on your system. Select the package group into which you want to install Developer for System z. Installation Manager will verify that the package group you selected is compatible with Developer for System z. If it is not, Installation Manager will display an error message informing you of the problem and you will not be able to continue with the installation until you select a compatible package group or select to create a new package group.

When you have finished making your selections, click **Next** to continue.

6. 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 3.6.2 using IBM Java Development Kit (JDK) version 1.6 or higher to select this option. It is

recommended that you use the Eclipse IDE and JDK that are packaged with Developer for System z 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 for Windows, eclipse for Linux). 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.
7. On the **Features** page, under **Translations**, select the languages you want to install for this package group. The corresponding national language translations for the user interface and documentation for Developer for System z will be installed.

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

Note: In this release of Developer for System z, selecting any of the available languages will result in the national language translations for all languages being installed.

8. On the next **Features** page, select the features that you want to install for Developer for System z and any bundled offerings you are installing. If you selected to do a guided installation from the launchpad at the start of the installation process, a set of features will be selected by default based on the responses you gave to the questions in the installation wizard. 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. For more information about the available features of Developer for System z, refer to "Feature installation" on page 10. For information about the available features of the offerings that are bundled with Developer for System z, refer to the documentation for those offerings.

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

9. On the help system configuration page, select one of the following options and then click **Next**:
- **Access help from the Web**
 - **Download help and access content locally**
 - **Access help from a server on your intranet**
10. On the z/OS connection panel, you can optionally configure a remote z/OS connection that will be created the first time you launch the Developer for System z workbench using a new workspace. Developer for System z will connect to the server to automatically retrieve workbench configuration settings. This can help you roll out common configuration settings to multiple users without having to configure each client separately.

For more information about this feature, see "Push-to-client considerations" in the Developer for System z *Host Configuration Reference Guide* (SC14-7290).

By default, the z/OS connection configuration is disabled. If you do not want to configure a z/OS connection, leave the **Configure my z/OS connection now** check box unchecked and click **Next** to continue with the installation. If you want to enable this feature and enter your z/OS connection settings, perform the following steps:

- a. Select the **Configure my z/OS connection now** check box.
 - b. Enter the host name of the Developer for System z server in the **Host name** field.
 - c. In the Connection name field, enter a name to be used for this connection in the Developer for System z Remote Systems view.
 - d. Select either **userid/password** or **certificate** for the server authentication method.
 - e. Enter the daemon port of the Developer for System z server in the **Daemon port** field.
 - f. Click **Next** to continue with the installation. Your z/OS connection will be configured the first time you launch the Developer for System z workbench using a new workspace.
11. On the **Summary** panel, review your choices before you begin the 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 installation choices, click **Install** to install the packages. The installation begins and a progress indicator shows you the percentage of the installation complete.
 12. When the installation process is complete, a message confirms the success of the installation.
To view the installation log file for the current session, click **View log file** to open the installation log in a new window.
 13. If necessary, configure your licensing for Developer for System z and other bundled offerings you installed through the **Manage License** panel in Installation Manager. This may include configuring floating license support or installing product activation kits to install permanent or term license keys. Refer to "Managing licenses" on page 35 for more details.

Silent installation

About this task

You can install Developer for System z in silent mode. When you run Installation Manager in silent mode, its user interface is not available; you use a response file instead 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.

There are the following three main tasks for silent installation:

1. If you are planning to perform silent installations on multiple systems, copy the installation image to a location on a shared drive or server.
2. Create the response file.
3. Run Installation Manager in silent install mode.

The following sections explain the task of copying the installation image to a shared drive or server. For the most current information about the remaining tasks (creating response files and running Installation Manager in silent mode to install the package), see the information center for Installation Manager at <http://publib.boulder.ibm.com/infocenter/install/v1r5/index.jsp>.

The "Working in silent mode" topic at <http://publib.boulder.ibm.com/infocenter/install/v1r5/topic/com.ibm.silentinstall12.doc/topics/>

t_silentinstall_overview.html provides detailed information about these topics.

Copying the installation image to a shared drive or server

About this task

If you are planning to perform silent installations on multiple systems, you should copy the installation image to a location on a shared drive where other systems in your intranet can access it.

To copy the installation image from physical installation discs to a shared location, take the following steps:

1. Insert the *IBM Rational Developer for System z Installation disc* into your DVD drive.
2. Copy the contents of the *IBM Rational Developer for System z Installation disc* into the shared location where you want to store the installation image.
3. If you want to make other offerings that are bundled with Developer for System z available for silent installation, you will need to follow the previously mentioned process for these offerings.
 - a. If the bundled offering installation is contained on a single installation disc, copy the contents of that installation disc to the directory you created in Step 1. If the bundled offering includes multiple installation discs, perform the following steps.
 - 1) Create a new directory in your shared location to contain the product installation files for the bundled offering. This directory can have any name you choose.
 - 2) For each installation disc, create a `diskN` directory for each installation disc inside the directory you created to contain the product installation files, where `N` corresponds to the number of the installation disc. Copy the contents of each installation disc into the corresponding `diskN` directory you created for that disc.
4. Once you have finished copying the contents of your installation discs to your shared location, you are ready to create a response file and perform silent installations.

To copy the installation image from an electronic image to a shared location, take the following steps:

1. Extract each of the compressed files you downloaded for Developer for System z and any bundled offerings you want to make available for silent installations to the shared location where you want to store the image. Alternatively, you could extract the compressed files on your local machine and then copy the uncompressed files and directories to the shared location.
2. In the shared location, verify that you now have the following:
 - a. In the root of the shared directory, you should have the following directories:
 - `RDz85_Setup`
 - `RDz85` or `RDz85Ent`
 - One directory for each bundled offering you are making available for silent installations. The available bundled offerings will vary depending on the edition of Developer for System z you purchased.
 - b. In the **RDz85** or **RDz85Ent** directories, and in the directory for each bundled offering you copied to your shared location, you should have one or more `diskN` directories, one for each installation disc for the product.

3. Once you have verified the directory structure of your shared installation image you are ready to create a response file and perform silent installations.

Alternatively, you can copy your installation image to a repository on an HTTP Web server and perform silent installations using the repository. To create a repository you will need to use the IBM Packaging Utility. Refer to “Overview: Placing Developer for System z on an HTTP Web server” on page 24 for more details.

Chapter 6. Post-installation tasks

Configuring your help content

The default for help delivery draws content from the web dynamically. With this remote help, you always have the latest content available from within your product. You can also have the help content installed locally on your computer.

For additional information on installing and configuring help, see Configuring help content (http://pic.dhe.ibm.com/infocenter/ratdevz/v8r5/index.jsp?topic=%2Fcom.ibm.help.common.rational.remote.doc%2Ftopics%2Ft_configuring_help.html)

To install the help content locally, see one of these topics:

- Downloading help content from the Help updater site (http://pic.dhe.ibm.com/infocenter/ratdevz/v8r5/index.jsp?topic=%2Fcom.ibm.help.common.rational.remote.doc%2Ftopics%2Ft_download_help_update_site.html)
- Downloading help content from the Help download site (http://pic.dhe.ibm.com/infocenter/ratdevz/v8r5/index.jsp?topic=%2Fcom.ibm.help.common.rational.remote.doc%2Ftopics%2Ft_download_help_download_site.html).

Note: Downloading help content from the Help download site uses the Rdz85_updateSite.zip file. If you do not have internet access, the Rdz85_updateSite.zip file is also available in the documentation\help folder on the Developer for System z setup and installation disc and on the Developer for System z Quick Start disc.

Enabling Content Assist for EXEC CICS, EXEC SQL, and EXEC DLI statements

Enabling content assist for EXEC CICS, EXEC SQL, and EXEC DLI statements requires access to the IMS and CICS information centers.

The online version of these information centers can be found at:

CICS: <http://publib.boulder.ibm.com/infocenter/cicsts/v4r2/index.jsp>

IMS: <http://publib.boulder.ibm.com/infocenter/dzichelp/v2r2/index.jsp>

The IMS and CICS information centers can also be installed locally or on an intranet server. For information on obtaining, installing and initializing the IMS information center, see “Installing and initializing the Information Management Software for z/OS Solutions (IMS) information center” on page 34. For information on obtaining, installing and initializing the CICS information center, see “Installing and initializing the CICS Transaction Server Version information center” on page 34

Installing and initializing the Information Management Software for z/OS Solutions (IMS) information center

The Information Management Software for z/OS Solutions information center is available as an installable information center for Microsoft Windows XP Professional systems. The installable information center can run on a local system or on an intranet Windows.

The Information Management for z/OS Solutions information center DVD (SK5T-7377) can be ordered from the IBM Publication Center for a low cost. The installable information center is available only in English and might not be available for ordering in your country or region. To order the Information Management for z/OS Solutions information center DVD:

1. Go to the IBM Publications website.
2. Select your country, region, or language from the drop-down menu, and click **Go**.
3. On the next page, select **Search for publications**.
4. On the Quick Publications Center search page, enter SK5T-7377 in the Publication number field, and click **Go**.

After you receive your IMS information center DVD and install the information center, follow the instructions provided in the information center for obtaining the latest updates.

Note: When you install the IMS information center, you can select to install just the latest DB2 and IMS topics. These topics are the only topics you need to enable content assist for EXEC SQL and EXEC DLI statements.

Note: The IMS information center is only available for Microsoft Windows. If you are using Linux, UNIX or AIX, use the online version of the information center or install the information center on a Microsoft Windows server that you can access on your intranet.

To enable content assist for EXEC SQL and EXEC DLI statements, go to where you installed the information center and initialize the information center by running `IC_start.bat` - this routine initializes the information center on port 8801. The information center must be initialized using port 8801 to ensure that the help information can be found by content assist.

Note: Initializing the IMS information center initialization using the shortcuts in the **Start** menu randomly assigns a port number. If you use the shortcuts provided in the **Start** menu, content assist cannot locate and display the appropriate documentation.

To open the IMS information center, use your browser to link to `http://127.0.0.1:8801/help/index.jsp` after you have run `IC_start.bat`.

Installing and initializing the CICS Transaction Server Version information center

The CICS Transaction Server Version information center can run in a Microsoft Windows, Linux, and AIX environment. A package is provided for each platform on the IBM Publications Center. Each package contains all the Eclipse code and CICS documentation that is required to run an information center on a workstation or a server.

To Download the CICS Information Center:

1. Go to the IBM publications center website: <http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>.
2. Click Search for publications and enter the appropriate publication number:
SK4T-2664 CICS Transaction Server Version Information Center for AIX
SK4T-2665 CICS Transaction Server Version Information Center for Linux
SK4T-2666 CICS Transaction Server Version Information Center for Windows
3. Download the information center package.
4. Extract the package and follow the instructions in the readme file to install the information center. Each package is compressed as a .zip file. The .zip file contains the correct compressed file format for Linux, AIX, and z/OS.

After you have installed the information center, follow the instructions provided in the information center for obtaining the latest updates.

To enable content assist for EXEC CICS statements, go to where you installed the information center and initialize the information center by running `IC_start.bat`. To open the CICS Information Center, you can either run `help_cd_start.bat` or, use your browser to link to <http://127.0.0.1:9999/help/index.jsp> after you have run `IC_start.bat`.

Managing licenses

Licensing for your installed IBM software and customized packages is administered using the Manage Licenses wizard in IBM Installation Manager. The Manage Licenses wizard displays license information and allows you to perform license configuration tasks for each of your installed packages.

Trial licenses that come with some Rational products expire 30 or 60 days after installation. You need to activate your product in order to use it after the expiration date. Using the Manage Licenses wizard, you can upgrade trial versions of an offering to a licensed version by importing a product activation kit. You can also enable Floating license enforcement for offerings with trial or permanent licenses to use floating license keys from a license server.

- For more information on managing licenses for your Rational product, see the Rational licensing support page at <http://www-306.ibm.com/software/rational/support/licensing/>.

Authorized User License

An IBM Rational Authorized User license permits a single, specific individual to use a Rational software product. Purchasers must obtain an Authorized User license for each individual user who accesses the product in any manner. An Authorized User license cannot be reassigned unless the purchaser replaces the original assignee on a long-term or permanent basis.

For example, if you purchase one Authorized User license, you can assign that license to one specific individual, who can then use the Rational software product. The Authorized User license does not entitle a second person to use that product at any time, even if the licensed individual is not actively using it.

Floating license

An IBM Rational Floating license is a license for a single software product that can be shared among multiple team members; however, the total number of concurrent users cannot exceed the number of floating licenses you purchase. For example, if

you purchase one floating license for a Rational software product, then any user in your organization may use the product at any given time. Another person who wants to access the product must wait until the current user logs off.

To use floating licenses, you must obtain floating license keys and install them on a Rational License Server. The server responds to end-user requests for access to the license keys; it will grant access to the number of concurrent users that matches the number of licenses the organization purchased.

Note: If you use floating licenses for Rational Developer for System z (including token licenses), then you must upgrade your license key server to Rational License Key Server, Version 8.1.2, before installing the product. Rational License Key Server, Version 8.1.2 can be used with earlier versions of the product. For information about how to upgrade from v7.1.x or an earlier Rational License Key Server to v8.1.2, see *Migrating to Rational Common Licensing*(http://publib.boulder.ibm.com/infocenter/rational/v0r0m0/index.jsp?topic=/com.ibm.rational.license.doc/topics/r_migration.html).

Token license

The token-based license model means that you can buy a certain number of token licenses. If you use a Rational tool that checks out a FEATURE that is token-based, the FEATURE line in the license file specifies the number of tokens that are checked out.

Token-based licenses can only be used with floating licenses. They cannot be used for authorized user license.

Note: If you use floating licenses for Rational Developer for System z (including token licenses), then you must upgrade your license key server to Rational License Key Server, Version 8.1.2, before installing the product. Rational License Key Server, Version 8.1.2 can be used with earlier versions of the product. For information about how to upgrade from v7.1.x or an earlier Rational License Key Server to v8.1.2, see *Migrating to Rational Common Licensing* (http://publib.boulder.ibm.com/infocenter/rational/v0r0m0/index.jsp?topic=/com.ibm.rational.license.doc/topics/r_migration.html).

For more details about token licensing, contact your local IBM marketing representative.

License enablement

If you are installing a Rational software product for the first time or want to extend a license to continue using the product, you have options on how to enable licensing for your product.

Licenses for Rational Software Development Platform offerings are enabled in the following two ways:

- Importing a product activation kit
- Enabling Rational Common Licensing to obtain access to floating license keys

Note: Trial licenses that come with some Rational products expire 30 or 60 days after installation. You need to activate your product in order to use it after the expiration date.

Activation kits

Product activation kits contain permanent or term license keys for your trial Rational product. You purchase the activation kit, download the activation kit .zip file to your local machine, and then import the activation kit .jar file to enable the license for your product. Use IBM Installation Manager to import the activation kit to your product.

Floating license enforcement

Optionally, you can obtain floating license keys, install IBM Rational License Server, and enable Floating license enforcement for your product. Floating license enforcement provides the following benefits:

- License compliance enforcement across the organization
- Fewer license purchases
- Serve license keys for IBM Rational Team Unifying and Software Development Platform desktop products from the same license server

For more information on obtaining activation kits and Floating licenses, see “Purchasing licenses” on page 39.

Viewing license information for installed packages

About this task

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

To view license information, take the following steps:

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 a product activation kit

About this task

To install your permanent or term license key, you must import the activation kit from the download location or the product media by using IBM Installation Manager.

If you have not purchased an activation kit, you must do this first. If you have purchased a product or a product activation kit, insert the appropriate disc or download the activation kit from IBM Passport Advantage to an accessible workstation. The activation kit is packaged as a Java archive (.jar) file. The .jar file contains the permanent license key and must be imported to activate your product.

To import the activation kit .jar and enable the new license key, take the following steps:

1. Start IBM Installation Manager.
2. On the main page, click **Manage Licenses**.
3. Select a package and click the **Import Activation Kit** button.
4. Click **Next**. Details for the selected package are shown, including the current license kind and the version range of the license.

5. Browse to the path on the media disc or download location for the activation kit; then select the appropriate Java archive (.jar) file and 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.

Enabling floating licenses

About this task

If your team environment supports Floating license enforcement, you can enable Floating licenses for your product and configure a connection to obtain access to floating license keys.

Before enabling Floating license enforcement, you must obtain the license server connection information from your administrator. For details on license server, license key, and Rational Common Licensing administration, see the *IBM Rational License Management Guide*.

To enable floating licenses as the license type for specified packages and configure license server connections:

1. In the IBM Installation Manager for the Rational Software Development Platform, click **File** -> **Open** -> **Manage Licenses**.
2. Select a version of a package and then select the **Configure Floating license support** button.
3. Click **Next**.
4. Click the **Enable Floating license enforcement** button.
5. Configure one or more license server connections, as follows:
 - a. Click an empty field in the **Servers** table or click the **Add** button.
 - b. If your administrator provided you with information for a redundant server environment, click the **Redundant Server** button. Fields for the primary, secondary, and tertiary server names and ports appear.
 - c. Enter the host name of the license server in the **Name** field.
 - d. (Optional) Enter a value in the **Port** field for environments where a firewall is used. Do not assign a value to this port unless your administrator instructs you to do so.
 - e. For redundant server environments, enter the names and ports (if required) for the secondary and tertiary servers.
 - f. (Optional) You can click the **Test Connection** button to confirm that the connection information is correct and that the server is available.
 - g. Click **OK**.
6. Click **Next**.
7. (Optional) Configure the license usage order for your shell shared or custom packages. The order of licenses in the list determines the order in which your package attempts to obtain access to license keys for a given licensed package.
8. Click **Finish**.

The Manage Licenses wizard indicates whether the floating licenses configuration is successful.

Now, when you next open the enabled product, a connection is created to the license server to obtain a license key from the pool of available floating license keys.

Purchasing licenses

About this task

You can purchase new licenses if your current product license is about to expire or if you want to acquire additional product licenses for team members.

To purchase licenses and enable your product, complete the following steps:

1. Determine the type of license you want to purchase.
2. Go to ibm.com[®] or contact your IBM sales representative to purchase the product license. For details, visit the IBM Web page on *How to buy* software.
3. Depending on the type of license you purchase, use the Proof of Entitlement you receive and do one of the following to enable your product:
 - If you purchase Authorized User licenses for your product, go to *Passport Advantage* and follow the instructions there for downloading your product activation kit file. Once you have downloaded the activation kit, you must import the product activation .jar file using Installation Manager.
 - If you purchase Floating licenses for your product, click the link to the *IBM Rational Licensing and Download site*, login (IBM registration is required), and then select the link to connect to the IBM Rational License Key Center. There you can use your Proof of Entitlement to obtain floating license keys for your license server.

Optionally, you can also go to Passport Advantage to download the activation kit for your product. After importing the activation kit, you have the option of switching from a floating to a permanent license type if you use your PC offline for long periods.

When you want to import the activation kit or enable floating license support for your product, use the Manage Licenses wizard in IBM Installation Manager.

Silently installing and configuring licenses

You can import product licenses and configure floating license support silently, just like you can install packages silently. You will need to generate a response file to be used by IBM Installation Manager to perform your license configuration tasks. Refer to “Silent installation” on page 29 for details on recording a response file and running silent installations. When recording your response file, use the Manage Licenses panel to import an activation kit or configure floating license support before you exit Installation Manager. The necessary information for performing these tasks silently will be written in the response file.

Increasing the number of file handles on Linux computers

For best product performance, increase the number of file handles above the default of 1024 handles.

Before you begin

Important: Before you work with your Rational product, increase the number of file handles. Most Rational products use more than the default limit of 1024 file handles per process. A system administrator might need to make this change.

About this task

Ensure that you complete the following steps correctly. If this procedure is not completed correctly, your computer will not start.

To increase the number of file handles on a Linux computer, complete the following steps:

Procedure

1. Log in as root. If you do not have root access, you will need to obtain it before continuing.
2. Change to the `etc` directory.
Attention: If you decide to increase the number of file handles in the next step, *do not* leave an empty `initscript` file on your computer. If you do so, your computer will not start the next time that you restart it.
3. Use the `vi` editor to edit the `initscript` file in the `etc` directory. If this file does not exist, type `vi initscript` to create it.
4. On the first line, type `ulimit -n 4096`. The point is that 4096 is significantly larger than 1024, the default on most Linux computers.

Important: Do not set the number of handles too high, because doing so can negatively impact system-wide performance.

5. On the second line, type `eval exec "$@"`.
6. Save and close the file after making sure you have completed steps 4 and 5.
7. Optional: Restrict the number of handles available to users or groups by modifying the `limits.conf` file in the `etc/security` directory. If you do not have this file, consider using a smaller number in step 4 in the previous procedure (for example, 2048). Do this so that most users have a reasonably low limit on the number of open files that are allowed per process. If you use a relatively low number in step 4, it is less important to do this. However, if you set a high number in step 4 earlier and you do not establish limits in the `limits.conf` file, computer performance can be significantly reduced.

The following sample `limits.conf` file restricts all users, and then sets different limits for others afterwards. This sample assumes that you set handles to 8192 in step 4.

```
*      soft nofile 1024
*      hard nofile 2048
root   soft nofile 4096
root   hard nofile 8192
user1  soft nofile 2048
user1  hard nofile 2048
```

Note that the "*" in the preceding example sets the limits for all users first. These limits are lower than the limits that follow. The root user has a higher number of allowable handles open, while the number available to user1 is between the two. Make sure that you read and understand the documentation contained in the `limits.conf` file before making changes.

Additional configuration requirements for Linux operating systems

If you use a Linux operating system, then you must check that your computer meets the requirements listed in this topic.

32-bit xulrunner package requirement on 64-bit systems

Developer for System z installed into a 32-bit package group on a 64-bit Linux system requires the 32-bit version of the xulrunner package to be installed. If the package is not installed, you may see the following error message when you run the product:

```
org.eclipse.swt.SWTError: No more handles
[Unknown Mozilla path (MOZILLA_FIVE_HOME not set)]
```

The 32-bit xulrunner package can often be found and installed using the package manager installed with your Linux distribution. (For example, you might use YUM on Red Hat Linux or YaST on SUSE Linux.) As an alternative, you can download the 32-bit xulrunner RPM, either from the update site for your Linux distribution, the 32-bit Linux distribution discs (if the discs are available), or another RPM package distribution source, and install it using the `rpm` command. For example:

```
rpm -Uvh <xulrunner module name>
```

Environment variable might need setting for Firefox or Mozilla browsers

You might need to set the environment variable `MOZILLA_FIVE_HOME` to the folder containing your Firefox or Mozilla installation. For example, `setenv MOZILLA_FIVE_HOME /usr/lib/firefox-1.5`.

If you do not set this environment variable, then when you run the product you might see the following error message:

```
org.eclipse.swt.SWTError: No more handles
[Unknown Mozilla path (MOZILLA_FIVE_HOME not set)]
```

Firefox browsers must be dynamically linked

To support the SWT browser widget, your Firefox browser must be dynamically linked, which means it was not downloaded from mozilla.org, but was compiled from source. This is typically the case when Firefox comes as part of the distribution (that is, it is in a place such as `/usr/lib/firefox`).

One way to ensure that this is true is to see if it is the browser that is pointed at by `/etc/gre.conf`. The purpose of this `gre.conf` file is to point at an embeddable browser.

If your browser is not dynamically linked, then you might see the following error message when you run the product:

```
org.eclipse.swt.SWTError: No more handles
(java.lang.UnsatisfiedLinkError:
/home/n0002466/.eclipse/ibm.software.development.platform_7.0.0
/configuration/org.eclipse.osgi/bundles/267/1/.cp/libswt-mozilla-gtk-3236.so
(libxpcor.so: cannot open shared object file: No such file or directory))
SUSE Linux might require a fix for invisible text problem.)
```

SUSE Linux might require a fix for invisible text problem

If your operating system is SUSE Linux Enterprise Desktop 10 SP1 or SUSE Linux Enterprise Server 10 SP1, then you might need the following operating system update to resolve a problem with text not being displayed in some editors:

<http://support.novell.com/techcenter/psdb/44ab155e3202595389c101e6cf7e20f2.html>

Chapter 7. Starting Developer for System z

About this task

You can start Developer for System z from the Windows desktop environment or the command-line interface, as follows:

- To start IBM Rational Developer for System z from the Windows Start menu, click **Start -> All Programs -> [package group name] -> IBM Rational Developer for System z -> IBM Rational Developer for System z**.
- To start IBM Rational Developer for System z on a Linux system, click the **IBM Rational Developer for System z** shortcut from the application shortcut menu in your desktop environment.

Windows

To start Developer for System z from a command line, type <product install directory>\eclipse.exe .

Linux

To start Developer for System z from a command line, type <product install directory>/eclipse.

Chapter 8. Modifying installed packages

About this task

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.

Note: 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, take the following steps:

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, click **Cancel**, then click **File -> View Installed Packages**. The page that is displayed shows you the package groups and packages that are installed on your system. When you are ready, click **Modify Packages** again, select the package group, and 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.

Chapter 9. Updating installed packages

About this task

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, take the following steps:

1. If you want to install updates from a specific repository, for example a repository stored on an HTTP Web server in your intranet, you need to specify the repository location in the Installation Manager preferences before proceeding. If you want to simply let Installation Manager search the internet for updates for you, you do not need to perform this step.

Note: When you specify repositories in the Installation Manager preferences, Installation Manager will still search the internet for updates in addition to searching the repositories you specify. If you do not want Installation Manager to search for updates, go to **File -> Preferences** and deselect the **Search service repositories during installation and updates** checkbox at the bottom of the **Repositories** panel. This tells Installation Manager to search only the repositories specified in the preferences and not to search the internet.

2. From the main panel of the Installation Manager, click **Update**.
3. On the **Update Packages** panel, select the package group that contains the packages you want to modify. If you need help determining what packages are installed, click **Cancel**, then click **File -> View Installed Packages**. The page that is displayed shows you the package groups and packages that are installed on your system. If you want to check for updates for all of your installed packages, select the **Update All** check box. Click **Next** to continue.
4. Installation Manager searches for any available updates to the installed packages. The next panel displays a list of available updates that were found.
5. 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.
6. Select the updates that you want to install and click **Next**.
7. 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.
8. 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.

9. The Complete page is displayed with results.
10. Click **View Log File** link to see the complete installation log.

Chapter 10. Uninstalling Developer for System z

About this task

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.

Windows

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**.

Note: If you did a non-administrator installation, you would click **Start -> All Programs -> My IBM Installation Manager -> My IBM Installation Manager**

Linux

Perform the following steps to begin the uninstall process:

1. Open a terminal window.
2. Change to the <Installation Manager install directory>/eclipse directory.
(Example: /opt/IBM/InstallationManager/eclipse)
3. Run **./IBMIM**.

Procedure

1. Close all programs that you installed using Installation Manager.
2. From the main panel of Installation Manager, click **Uninstall**.
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**.

Chapter 11. Migration

Migrating WebSphere Developer for zSeries or WebSphere Developer for System z workspaces

About this task

If you have a workspace you used in WebSphere® Developer for zSeries® 6.0.1 or WebSphere Developer for System z 7.0, and you want to migrate the workspace for use with IBM Rational Developer for System z Version 8.5, you must follow these steps:

1. Install IBM Rational Developer for System z Version 8.5.
2. Start Rational Developer for System z, specifying the name of the workspace you are migrating. The old workspace is migrated automatically so that all the old artifacts are present and appear in the new workspace.
3. Rational Developer for System z Version 7.x workspaces will be migrated to Version 8.5.

Note: Developer for System z *cannot* be upgraded from version 7.x or 8.0.x to version 8.5. Version 8.5 can coexist with all previous versions of Developer for System z in a different installation location.

Note: Developer for System z does not support migrating a Windows-based workspace into a Linux-based Developer for System z 8.5 workspace.

Appendix A. Installing additional software

Installing required System z components

For instructions on installing the host code, see the installation configuration documentation found in the related product directory:

- RDz85_zOS_SMPE for z/OS systems
- RDz85Ent_RSE for Linux systems

Installing IBM TXSeries for Multiplatforms

About this task

IBM TXSeries for Multiplatforms provides a local CICS development platform so you can develop CICS programs.

IBM TXSeries has its own set of installation documentation, which is available on the disc with the product.

To install IBM TXSeries for Multiplatforms:

1. Insert the *IBM Rational Developer for System z Installation disc*, or open the RDz85_Setup directory of your electronic image.
2. Run launchpad.exe to start the launchpad program.
3. Click the **Install optional software** tab on the left side of the launchpad window.
4. Click **Launch IBM TXSeries for Multiplatforms v7.1 installation** to launch the installation.
5. When prompted, insert the IBM TXSeries for Multiplatforms v7.1 installation CD, or specify the location that contains the electronic installation image.
6. After the installation starts, follow the prompts on the screen to perform the installation.

Installing RSE Server for Multiplatform

Note: RSE Server is only available on Developer for zEnterprise.

See the *Developer for System z RSE Server Installation and Configuration Guide* on the *IBM Rational Developer for zEnterprise Server for z/OS and Multiplatforms Installation Disc for AIX, Linux, Linux on System z, Linux on Power®* disc for details on installing the optional RSE Server.

See the *RSE Server Installation Guide: AIX on Power and Linux on Power systems* (SC14-7496-00) for details about installing the optional RSE Server on Power/AIX and Power/Linux on IBM Rational Developer for zEnterprise.

Installing the Rational Team Concert Integration extension

The Rational Team Concert Integration extension can be installed at the same time you install Developer for System z by doing the following:

1. Start the installation by choosing either a guided or expert installation from the launchpad, as described in "Using the launchpad program" on page 24.
2. When Installation Manager is launched to begin the installation, "Rational Team Concert - Client for Eclipse IDE" and the "Rational Team Concert Integration extension" will be listed on the Available Packages panel.
3. Select the **Rational Team Concert Integration extension** if it is not already selected.
4. If either **Rational Developer for System z** or **Rational Team Concert - Client Extension** is not selected, and you do not already have the one that is not selected installed, select that one.

Note: By default, only version 4.0 of the **Rational Team Concert - Client Extension** package is displayed in the list of available packages. To install version 3.0.1.3 instead, select the checkbox labeled "Show All Versions", and then select the **Rational Team Concert - Client Extension** version 3.0.1.3 package.

5. Click **Next** and follow the panels in the Install Packages wizard to install the extension.

Appendix B. 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 `rdz85_releasenotes.html` file located in the `Documents\n1\en\readme` directory of the *IBM Rational Developer for System z Installation disc* or *IBM Rational Developer for zEnterprise Installation disc*.

Appendix C. 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 Enterprise Deployment disc. If you want to place a repository containing Developer for System z and other 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.

For detailed instructions on installing and using IBM Packaging Utility, see the Installation Manager information center, at <http://publib.boulder.ibm.com/infocenter/install/v1r5/index.jsp>. The "Managing packages with Packaging Utility" topic at http://publib.boulder.ibm.com/infocenter/install/v1r5/topic/com.ibm.cic.auth.ui.doc/topics/c_modes_pu.html contains the most current information.

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Version 8.5
Installation Guide

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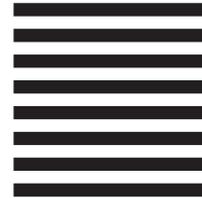
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