IBM Rational Developer for zEnterprise
8.0.3

Getting Started Guide

SC14-7316-00

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Note

Before using this document, read the general information under “Documentation notices for IBM Rational Developer for zEnterprise” on page 9.

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This edition applies to IBM Rational Developer for System z Version 8.0.3 (program number 5724-T07) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Contents

Figures v

Tables vii

About this document ix
Who should use this document ix

Chapter 1. IBM Rational Developer for zEnterprise 1
Client operating systems supported. 1
Host operating systems supported 2

Chapter 2. Installation considerations . . 3
Installation differences 3
Migration 3

Chapter 3. Differences between Developer for System z Enterprise and Developer for System z 5
Editor considerations 5
Debugging considerations 5
Editor conflict affecting debugging 5
New and changed perspectives 6
Views differences 7
Language sensitive help 7

Documentation notices for IBM Rational Developer for zEnterprise 9
Copyright license 10
Trademark acknowledgments 11

Index 13

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Figures

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Tables

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About this document

This document discusses the differences that make IBM Rational Developer for zEnterprise Version 8.0.3 unique from the other Rational® Developer for System z® client versions. There are some changes to installation, changes to how some functions work within the client, and some new functions.

Who should use this document

This document is intended for anyone who plans to install or use IBM Rational Developer for zEnterprise Version 8.0.3.

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Chapter 1. IBM Rational Developer for zEnterprise

IBM Rational Developer for zEnterprise allows you to perform basic operations for development on both z/OS® and AIX® systems from the same new default perspective. The new default perspective is the Enterprise Development perspective.

For more complex operations, you can switch to platform-specific perspectives.

Client operating systems supported

Developer for zEnterprise supports the following client operating systems:

Product Name	PTFs or Service Levels Required
Microsoft Windows XP Professional	Service Pack 3 or later
Microsoft Windows Server 2003 Enterprise Edition	Service Pack 2 or later
Microsoft Windows Server 2003 Standard Edition	Service Pack 2 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
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Red Hat Linux Enterprise Server v 6.0	All available service recommended
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
Microsoft Windows 2008 Enterprise Server R2	No service level required
Microsoft Windows 2008 Standard Edition R2	No service level required

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Note: The following operating systems are supported in both 32 bit and 64 bit, but zEnterprise™ 64 bit support is with Rational Developer for System z running in 32 bit mode on the specified 64 bit Operating System.

- the Windows 7 editions listed in the preceding table
- the Windows Server 2008 R2 editions listed in the preceding table
- the Red Hat Linux Server editions listed in the preceding table
- the SUSE Linux Server editions listed in the preceding table

Host operating systems supported

Developer for zEnterprise supports the following host systems:

- z/OS 1.8 and newer
- Java
- AIX

Program Number	Product Name
5765-G98	AIX 7.1
5765-G62	AIX 6.1 Standard Edition
5765-G03	AIX 5L™ version 5.3

Be aware of the following things for the AIX system:

- AIX is needed only if the programming objects are located on AIX or the applications contain back end code on AIX.
- To compile C, C++, or COBOL on AIX using the tooling, the appropriate compiler must be installed:
  - IBM® COBOL for AIX V3.1 or V4.1
  - IBM XL C/C++ for AIX V11.1,, V10.1, V9.0, or V8.0
- Additional setup is required for the tooling to access the AIX system. See the "Installation tasks for AIX" section in the *IBM Rational Developer for Power Systems Software™ V8.0 Installation Guide*.

- Linux on Power System
  - Red Hat Enterprise Linux (RHEL) Server 5 for IBM Power
  - SUSE Linux Enterprise Server (SLES) 11 for IBM Power
  - SUSE Linux Enterprise Server (SLES) 10 for IBM Power

  Be aware of the following things for the Linux on Power System:
  - Linux is needed only if the programming objects are located on Linux or the applications contain back end code on Linux.
  - To compile C, C++, or COBOL on Linux using the tooling, the appropriate compiler must be installed:
    - IBM XL C/C++ for Linux V11.1 or V10.1
  - Additional setup is required for the tooling to access the Linux system. See the "Installation tasks for Linux on Power" section in the *IBM Rational Developer for Power Systems Software V8.0 Installation Guide*.

Chapter 2. Installation considerations

There are some installation differences between IBM Rational Developer for zEnterprise Version 8.0.3 and IBM Rational Developer for System z Version 8.0.3.

Installation differences

If you are going to work on AIX or Linux projects for Power Systems™, you must install the AIX or Linux servers. (Rational Developer for Power Systems is not shipped with Rational Developer for System z Enterprise for 8.0.3 and later releases.)

- To install the AIX server for Power Systems, see **https://www-304.ibm.com/support/docview.wss?uid=swg27020135#dqx1c_aixinstallation**.
- To install the Linux server for Power Systems, see **https://www-304.ibm.com/support/docview.wss?uid=swg27020135#dqx1c_linuxinstallation**.

Migration

Migration from IBM Rational Developer for zEnterprise 8.0.1 to IBM Rational Developer for zEnterprise Version 8.0.3 is seamless. Just apply the IBM Rational Developer for zEnterprise Version 8.0.3 update to the previously installed version. The necessary updates are made automatically.

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Chapter 3. Differences between Developer for System z Enterprise and Developer for System z

There are some functional differences between IBM Rational Developer for zEnterprise Version 8.0.3 and IBM Rational Developer for System z Version 8.0.3.

Editor considerations

There are two LPEX-based COBOL editors in IBM Rational Developer for zEnterprise Version 8.0.3 that look nearly identical. One editor provides support for editing COBOL files used on Rational Developer for System z and the other for COBOL files used on AIX and Linux on Power Systems.

The System z LPEX Editor supports language-sensitive help for MVS™ and Windows.

The COBOL Editor supports language-sensitive help for MVS, Windows, and AIX.

The Remote Systems LPEX Editor supports LSH for AIX.

Note: The following features affect only MVS files:

- File Locking
- File Truncation Warnings
- Round-Trip Integrity Warnings
- View Mode

Language-sensitive help applies to MVS files and Windows files.

For debugging purposes, you should set the COBOL and C/C++ editors for Rational Developer for System z as the default. See "Debugging considerations" for instructions about how to set the default editors.

There are also two remote C/C++ editors that have similar names. The editor names are listed here:

- The System z C/C++ Editor provides support for files on Developer for System z.
- The Remote C/C++ Editor provides support for files on AIX or Power systems.

Debugging considerations

During the IBM Rational Developer for zEnterprise installation process, the editors set as the default editors are the editors that provide support for editing COBOL files used on AIX or Power systems. If you want to debug programs on System z, you must change the default editors. The following section tells you how to change the default editors.

Editor conflict affecting debugging

When using IBM Rational Developer for zEnterprise, you should use the LPEX-based COBOL editors for editing COBOL files on IBM Rational Developer for System z as the default editors.

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To change the default COBOL editor, perform the following steps:

1. From the main menu, select **Window > Preferences**.
2. Select the **General > Editors > File Associations** node on the left.
3. In the **File Types** list, select the file type that you are interested in. (For example, *.cob and *.cbl to change association for COBOL files.)
4. In the **Associated editors** list, select the editor that should be used to open files of that type.
   - Select **Remote Systems LPEX Editor** to choose the COBOL editor for files on AIX or Power systems.
   - Select **System z LPEX Editor** to choose the COBOL editor for files on Rational Developer for System z.
5. Click the **Default** button to make this the default editor to be used for this file type.
6. Click **OK** on the preference page to save changes.

To change the default C/C++ editor, perform the following steps:

1. From the main menu, select **Window > Preferences**.
2. Select the **General > Editors > File Associations** node on the left.
3. In the **File Types** list, select the file type that you are interested in. (For example, *.c, *.h, *.cpp, and *.hpp to change association for C++ files.)
4. In the **Associated editors** list, select the editor that should be used to open files of that type.
   - Select ***(insert graphic here)*** to choose the C/C++ editor for files on AIX or Power systems.
   - Select ***(insert graphic here)*** to choose the C/C++ editor for files on Rational Developer for System z.
5. Click the **Default** button to make this the default editor to be used for this file type.
6. Click **OK** on the preference page to save changes.

New and changed perspectives

The Enterprise Development perspective is a new perspective in IBM Rational Developer for zEnterprise. The z/OS Projects perspective itself is not available, because it is a subset of this new perspective.

Views associated with the new perspective are listed here:

- Remote Systems view

  This view displays Rational Developer for System z projects and projects associated with AIX and Power systems.

  The Remote Systems view shows an AIX connection type instead of a UNIX connection type.
- Enterprise Projects view

  This view also displays Rational Developer for System z projects and projects associated with AIX and Linux on Power Systems. This view also displays remote AIX COBOL and remote C/C++ on Power projects.
- Remote Reconciler view

  The Remote Reconciler view helps you manage the associations between your development projects and their corresponding remote locations on Power systems.

The Remote Reconciler view lists all projects that have an associated remote connection to a Power system, and shows their remote location, type of connection, and shows whether they are out of sync with their remote counterpart. From this view, you can push any local changes to the corresponding remote resource, as well as kick off builds.

Note: As of Version 8.0.3, the Remote Reconciler not only pushes local changes, but it can also detect and retrieve changes from the remote host.

Views differences

You can open the new Enterprise Projects view from the **Window > Show View** menu of IBM Rational Developer for zEnterprise, but the z/OS Projects view is not available from the **Window > Open Perspective** menu because it is a subset of the Enterprise Projects view.

The Enterprise Projects Views view category groups views in a way that is similar to the z/OS Projects Views category.

Language sensitive help

You might notice some differences when using the COBOL editor for AIX or Linux on Power or on AIX resources in IBM Rational Developer for zEnterprise:

- Language Sensitive Help

  For Power and AIX systems, the AIX COBOL help is presented.
- Open/Browse Copybook actions

  The process for locating copybooks for AIX or Linux on Power projects is different than for Developer for System z projects.
- Local/Remote Syntax Check actions

  This feature does not exist for projects in AIX or Linux on Power.
- File Locking

  This feature applies only to projects involving z/OS operating systems. It does not apply to projects for AIX or Linux on Power.
- File Truncation Warnings

  This feature applies only to projects involving z/OS operating systems. It does not apply to projects for AIX or Linux on Power.
- Round-Trip Warnings

  This feature applies only to projects involving z/OS operating systems. It does not apply to projects for AIX or Linux on Power.
- Edit Modes (Browse Mode, View Mode)

  File locking does not exist in AIX systems, so IBM Rational Developer for zEnterprise does not automatically switch to Browse or View mode.
- Remote Codepage settings

  AIX and Linux on Power use the RSE properties as configured by Eclipse defaults. You can override the defaults to determine remote file encoding.
- Preprocessor Integration Support

  AIX and Linux on Power projects have a different user interface than the Developer for System z projects user interface to configure remote preprocessors. No local preprocessing for AIX and Power systems projects is supported.
- Margin R configuration

COBOL on AIX systems has a compile option to allow a maximum line length of 252 characters.

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Index

D
debug 5

E
editor considerations 5

H
help, language sensitive 7

L
language sensitive help 7

O
operating systems, client 1
operating systems, host 2

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8.0.3
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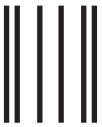

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