

IBM Rational Developer for System z



Prerequisites

Version 7.1

IBM Rational Developer for System z



Prerequisites

Version 7.1

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Prerequisites and Corequisites

Overview

This document includes the following sections:

- “Workstation prerequisites for IBM Rational Developer for System z”
- “Host prerequisites and corequisites for IBM Rational Developer for System z” on page 5

Workstation prerequisites for IBM Rational Developer for System z

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

There are prerequisites and corequisites for using this software.

The following prerequisites and corequisites are also listed in the IBM Rational Developer for System z Installation Guide.

Hardware Requirements

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

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

Software Requirements

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

Operating Systems

The following operating systems are supported for this product:

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

Additional Notes®:

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

Additional Software Requirements

Developer for System z requires the following to be installed as a prerequisite to installation.

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

1. Rational Application Developer or IBM Rational Software Architect

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

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

Additional Notes:

- a. IBM Rational Application Developer 7.0.0.3 is included on the Rational Developer for System z™ installation media, and the Installation Wizard will guide you through the installation of IBM Rational Application Developer 7.0.0.3 and Rational Developer for System z 7.1 simultaneously.

- b. If you already have IBM Rational Application Developer or Rational Software Architect installed on your system, you will need to update your existing installation to version 7.0.0.3 prior to installing Rational Developer for System z 7.1. Additionally, the features listed below are required by Rational Developer for System z and must be installed before Rational Developer for System z can be installed. If any of the required features are not installed, you will need to modify your existing installation to include them before installing Rational Developer for System z.

c.

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

Note: This feature allows Rational Developer for System z to build, compile, debug, and deploy applications for IBM WebSphere Application Server.

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

Note:

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

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

2. TXSeries® for Multiplatforms

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

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

Additional Notes:

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

3. DB2® Enterprise Server Edition for Windows

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

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

Additional Notes:

- a. The related product website is:
<http://www-306.ibm.com/software/data/db2/9/>

4. Web Browser

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

Product Name	PTF's or Service Levels Required
Microsoft Internet Explorer 6.0	Service Pack 1
Mozilla 1.6 or 1.7	all available maintenance
Firefox 1.5.x or 2.0	all available maintenance

5. Adobe Flash Player

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

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

6. Adobe Reader

The following must be installed to properly view product documentation PDFs..

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

User privileges requirements

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

- Your user ID must not contain double-byte characters.
- For Windows Vista, you must log in to the Administrator account (or run as Administrator; right-click the program file or shortcut and select **Run as Administrator**) to perform the following tasks:
 - Install or update IBM Installation Manager (the application that installs and updates Developer for System z)
 - Install or update a product offering.
 - Install an Authorized-User license key for your product. You use IBM Installation Manager to install license keys.

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

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

Host prerequisites and corequisites for IBM Rational Developer for System z

IBM Rational Developer for System z installation CDs provide multiple components to support the development and execution of programs created with Developer for System z. The list of components included is as follows:

- The modules necessary for the COBOL and PL/I tools (called z/OS[®] application development tools) to receive error feedback during remote project builds
- International Components for Unicode (ICU)
- IBM Rational Developer for System z Remote System Explorer (RSE)
- IBM Rational Developer for System z JES Job Monitor
- IBM Rational Developer for System z Bidirectional language Support
- IBM Rational Developer for System z Application Deployment Manager (ADM)
- IBM Rational Developer for System z Common Access Repository Manager (CARMA)
- IBM Software Configuration and Library Manager (SCLM) Developer Toolkit
- IBM Fault Analyzer integration
- IBM File Manager integration

There are prerequisites and corequisites for using this software.

The following prerequisites and corequisites are also listed in the IBM Rational Developer for System z Host Planning Guide.

Developer for System z host prerequisites

Use of the Developer for System z requires that you have the following environment, including batch functions with the appropriate prerequisites:

Program Number	Product Name	PTF's or Service Levels Required
5694-A01	z/OS v 1.7 or higher	APAR OA11519 APAR OA21104

Note: APAR OA11519 is only needed for Java class sharing (RSE server)

z/OS v 1.7 includes the following components, which need to be installed, configured, and operational:

- Binder
- High Level Assembler
- Interactive System Productivity Facility (ISPF)

Program Number	Product Name	PTF's or Service Levels Required
5694-A01	ISPF	APAR OA20345 z/OS1.7 PTF UA33542 z/OS1.8 PTF UA33575 APAR OA20449 z/OS1.7 PTF UA34051 z/OS1.8 PTF UA34052

- IBM Language Environment®
- z/OS UNIX®
- HFS
- z/FS
- RACF® or equivalent
- APPC (optional)

Note: APPC can be replaced by a SCLM Developer Toolkit function. However, this requires the installation and configuration of SCLM Developer Toolkit. SCLM Developer Toolkit is shipped with Rational Developer for System z. The SCLM Developer Toolkit method is the default used in the provided sample members.

- VTAM® component of IBM Communications Server
- IP Services component of IBM Communications Server
- One of the following levels of REXX must be installed on the host:

Program Number	Product Name	PTF's or Service Levels Required
5695-014	IBM Library for REXX on zSeries® v 1.4	No PTF or Service Level Required
5695-014	IBM Library for REXX on zSeries Alternate Library v 1.4.0 (FMIDs HWJ9143, JWJ9144)	No PTF or Service Level Required

Note: A free version of the REXX/370 Alternate Library is available from the product website www.ibm.com/software/awdtools/rexx/rexxzseries/. Using this free version will adversely affect performance.

To install the software on the operating system, System Modification Program/Extended (SMP/E) Version 3 Release 4 or higher is required. The corresponding program number is 5655-G44.

Developer for System z host corequisites

The following products and other stated software are required to support specific features of Developer for System z. The Developer for System z workstation client can be successfully installed without these requisites. However, a stated requisite must be installed and operational at runtime for the corresponding feature to work as designed.

1. IBM SDK for z/OS Java 2 Technology Edition

One of the following levels must be installed on the host to support applications using RSE server:

Program Number	Product Name	PTF's or Service Levels Required
5655-I56	IBM 31-bit SDK for z/OS, Java 2 Technology Edition, v 1.4	No PTF or Service Level Required
5655-N98	IBM 31-bit SDK for z/OS, Java 2 Technology Edition, v 5.0	No PTF or Service Level Required

Additional Notes:

Attention: The 64-bit version is not supported.

2. IBM z/OS 1.7 XL C/C++

The following level must be installed on the host to support applications using RSE server:

Program Number	Product Name	PTF's or Service Levels Required
5694-A01	IBM z/OS v 1.7 XL C/C++	No PTF or Service Level Required

3. COBOL Compiler

The following must be installed on the host to compile COBOL programs developed or edited within Developer for System z:

Program Number	Product Name	PTF's or Service Levels Required
5535-G53	IBM Enterprise COBOL for z/OS v 3.4	No PTF or Service Level Required

Additional Notes:

- Population of the Remote Problems List with compile errors when COBOL programs without any CICS and DB2 statements is supported for all levels of COBOL compilers, beginning with the minimum level.

- b. The related product website is
www.ibm.com/software/awdtools/cobol/zos/

4. PL/I Compiler

One of the following must be installed on the host to compile PL/I programs developed or edited within Developer for System z:

Program Number	Product Name	PTF's or Service Levels Required
5655-H31	IBM Enterprise PL/I for z/OS v 3.4	No PTF or Service Level Required
5655-H31	IBM Enterprise PL/I for z/OS v 3.5	No PTF or Service Level Required
5655-H31	IBM Enterprise PL/I for z/OS v 3.6	No PTF or Service Level Required

Additional Notes:

- IBM Enterprise PL/I for z/OS v 3.4 is the minimum level required to support
- Population of the Remote Problems List with errors when PL/I programs are built using Developer for System z build, JCL generation, and submission mechanisms.
- IBM Enterprise PL/I for z/OS v 3.4 is the minimum level of the compiler required to enable integrated translator support for CICS and integrated co-processor support for DB2.
- IBM Enterprise PL/I for z/OS v 3.4 or later is a full function offering for remote debug support. IBM Debug Tool for z/OS is shipped as part of this product.
- The following items are the prerequisite for Enterprise Service Tools for PL/I.
 - Enterprise PL/I V3R6
 - Language Environment V1R6, V1R7, V1R8 with the PTF
 - UK24478 7J9 /* LE V1R6 level Japanese message file. */
 - UK24479 709 /* LE V1R6 level English Mix and UPCASE */
 - UK24480 720 /* LE V1R7 level English Mix and UPCASE */
 - UK24481 72J /* LE V1R7 level Japanese message file */
 - UK24482 730 /* LE V1R8 level English Mix and UPCASE */
 - UK24483 73J /* LE V1R8 Level Japanese message file */
- The related product website is
www.ibm.com/software/awdtools/pli/plizos/

5. IBM Debug Tool for z/OS

One of the following must be installed on the host to support remote debugging from Developer for System z:

Program Number	Product Name	Programming Language	APARs, PTFs or Service Levels Required
5655-P14	IBM Debug Tool for z/OS v 6.1.0	COBOL, PL/I, Assembler, C/C++	all available maintenance

Program Number	Product Name	Programming Language	APARs, PTFs or Service Levels Required
5655-P15	IBM Debug Tool Utilities and Advanced Functions for z/OS V6.1.0	COBOL, PL/I, C/C++, assembler and additional features	all available maintenance
5655-R44	IBM Debug Tool for z/OS v 7.1.0	COBOL, PL/I, Assembler, C/C++	all available maintenance
5655-R45	IBM Debug Tool Utilities and Advanced Functions for z/OS V7.1.0	COBOL, PL/I, C/C++, assembler and additional features	all available maintenance
5655-S17	IBM Debug Tool for z/OS v 8.1.0	COBOL, PL/I, Assembler, C/C++	all available maintenance
5655-S16	IBM Debug Tool Utilities and Advanced Functions for z/OS v 8.1.0	COBOL, PL/I, C/C++, assembler and additional features	all available maintenance

Additional Notes:

- Debug Tool Utilities and Advanced Functions (DTU&AF) is a superset of Debug Tool.
- Debug Tool or Debug Tool Utilities and Advanced Functions (DTU&AF) must be ordered and purchased separately.
- For more information about Debug Tool and about the additional features of DTU&AF, refer to the product website:

www.ibm.com/software/awdtools/debugtool/

6. CICS Transaction Server

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

Program Number	Product Name	PTF's or Service Levels Required
5697-E93	CICS Transaction Server for z/OS v 2.2	No PTF or Service Level Required
5697-E93	CICS Transaction Server for z/OS v 2.3	No PTF or Service Level Required
5655-M15	CICS Transaction Server for z/OS v 3.1	UK15767, UK15764, UK11782, UK11294, UK12233, UK12521, UK15261, UK15271
5655-M15	CICS Transaction Server for z/OS v 3.2	

Additional Notes:

- The CICS Transaction Server requires additional configuration to work with the Debug tool.
- CICS TS Version 3.2 is required to support many new features of Enterprise Service Tools. These features include:
 - New mapping and runtime levels of WSBIND files (levels 2.0) as specified in preferences for Enterprise Service Tools
 - WSBIND files generated with or from SOAP 1.2 - and WSDL 2.0-based services

- For the complete list of specifics on runtime requirements refer to the Enterprise Service Tools documentation.
- c. CICS 3.1 is the minimum for ADM.
- d. The related product website is:
<http://www-306.ibm.com/software/htp/cics/tserver/>

7. IMS™

One of the following level must be installed on the host to support applications using IMS database and data communications:

Program Number	Product Name	PTF's or Service Levels Required
5655-C56	IMS 8.1	No PTF or Service Level Required
5655-J38	IMS 9.1	No PTF or Service Level Required

Additional Notes:

- a. IMS requires additional configuration to work with the Debug tool.
- b. The related product website is
www.ibm.com/software/data/ims/ims/

8. DB2

One of the following levels must be installed on the host to support DB2®:

Program Number	Product Name	PTF's or Service Levels Required
5675-DB2	IBM DB2 Universal Database™ for z/OS and OS/390® v 7.1	PTF UQ75402
5625-DB2	IBM DB2 Universal Database for z/OS v 8.1	No PTF or Service Level Required
5635-DB2	IBM DB2 for z/OS v 9.1	No PTF or Service Level Required

Additional Notes:

- a. DB2 Universal Database for z/OS v 8.1 or higher - Enterprise Server Edition has the integrated preprocessor required to send errors encountered during Developer for System z build, JCL generation, and submission back to the Developer for System z task list under the following conditions:
 - COBOL or PL/I programs with embedded SQL are built
 - The minimum compiler level is used: IBM Enterprise COBOL for z/OS v 3.4 or IBM Enterprise PL/I for z/OS and OS/390 v 3.4.
- b. The related product website is
<http://www-306.ibm.com/software/data/db2/zos/>

9. IBM File Manager

Program Number	Product Name	PTF's or Service Levels Required
5655-S14	IBM File Manager for z/OS v 8.1	No PTF or Service Level Required

10. IBM Fault Analyzer

Program Number	Product Name	PTF's or Service Levels Required
5655-R46	IBM Fault Analyzer v 7.1	PTF UK25564

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Version 7.1

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