

IBM WebSphere Developer for zSeries Version 6.0



IBM WebSphere Developer for zSeries Prerequisites

Version 6.0.1

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Prerequisites and Corequisites

Overview

This document includes the following sections:

- “Workstation prerequisites for WebSphere Developer for zSeries”
- “Host prerequisites and corequisites for WebSphere Developer for zSeries” on page 2

Workstation prerequisites for WebSphere Developer for zSeries

IBM® WebSphere® Developer 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 WebSphere Developer for zSeries® Installation Guide.

WebSphere Developer workstation prerequisites

Hardware Requirements

WebSphere Developer requires the following hardware:

Table 1. Hardware Requirements for WebSphere Developer

Processor	Intel® Pentium® III 800 MHz or higher is required
Memory	768MB RAM is required, but 1GB RAM or higher is recommended
Disk Space	2.5 GB minimum disk space is required. This assumes you are installing on a system with RAD or RSA v6.0 and includes space required to install maintenance updates for those products. Installation also requires 2.5 GB of temporary space for product update, installation files and other files. This does not include space required for language packs and is in addition to space required for the resources you develop. The maximum amount of space required depends on the optional features selected for installation and on the level of product maintenance you have installed.
Monitor and Video Card	A VGA display of 1024x768 or higher is required

Supported Operating Systems

WebSphere Developer requires any of the following operating systems:

Table 2. Operating Systems for WebSphere Developer

Windows® XP	Professional with Service Pack 1 or higher
Windows 2000	Professional or Server or Advanced Server with Service Pack 3 or higher
Windows Server 2003	Standard or Enterprise Edition

Additional Software Requirements

WebSphere Developer requires the following software:

Table 3. Software Requirements for WebSphere Developer

TCP/IP	Installed and configured
Microsoft® Internet Explorer	V6.0

Table 4. Software Requirements for WebSphere Developer

Rational® Application Developer or Rational Software Architect	V6.0
TCP/IP	Installed and configured
Microsoft Internet Explorer	V6.0

Software requirements for features

WebSphere Developer requires additional software if you wish to use any of the product features specified in the following table:

Table 5. Additional Software Requirements for WebSphere Developer

DB2® UDB V8.2, as is shipped for optional installation with WebSphere Developer.	To use the COBOL and PL/I Stored Procedures and to check the syntax of embedded SQL statements.
CICS® Transaction Gateway v6 and CICS TS for WebSphere Developer, as is shipped for installation with WebSphere Developer.	To provide a local CICS development environment.
IBM WebSphere Host Access Transformation Services V6, as is shipped for installation with WebSphere Developer.	To access host applications.
IBM WebSphere MQ Series for multiplatforms Version 5.3 and IBM WebSphere MQ Series for z/OS® Version 5.x	To utilize MQ Series function in conjunction with WebSphere Developer and EGL.

Host prerequisites and corequisites for WebSphere Developer for zSeries

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

- WebSphere Studio Enterprise Developer Options for z/OS v5.0. This provides the following functions:
 - The USS and MVS™ Build servers
 - A 390 build server used for building native COBOL programs
 - The modules necessary for WebSphere Developer to interface with Software Configuration and Library Manager (SCLM)
 - The modules necessary for the COBOL and PL/I tools (called z/OS application development tools) to receive error feedback during remote project builds
- IBM WebSphere Developer for zSeries RSE + ICU
- IBM WebSphere Developer for zSeries JES Job Monitor

- IBM WebSphere Developer for zSeries Common Access Repository Manager
- IBM WebSphere Developer for zSeries BIDI Support

There are prerequisites and corequisites for using this software.

The following prerequisites and corequisites are also listed in the WebSphere Developer for zSeries Host Planning Guide.

WebSphere Developer host prerequisites

Use of the WebSphere Studio Enterprise Developer Options for z/OS requires that you have one of the following environments, including batch functions with the appropriate prerequisites:

Program Number	Product Name
5694-A01	z/OS v 1.4 or higher

These operating systems include the following components, which need to be installed, configured, and operational:

- Binder
- High Level Assembler
- Interactive System Productivity Facility (ISPF)
- IBM Language Environment[®]
- IBM HTTP Server (Optional) — for use with the SCLM interface
- Unix System Services
- HFS
- RACF[®]
- APPC
- 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	REXX/370 Library V1.3	No PTF or Service Level Required
5695-014	REXX/370 Alternate Library (FMID HWJ9143),	No PTF or Service Level Required

Additional Notes[®]:

1. REXX/370 Alternate Library is provided with WebSphere Studio Enterprise Developer Options for z/OS on the IBM WebSphere Developer for zSeries host installation CD.
2. The related product website is www.ibm.com/software/awdtools/rexx/rexxzseries/.

You must install IBM Language Environment fixes based on your operating system level and the language version in use as described in the following table:

Operating System Level	Language Version	APAR number for PTFs	PTFs
z/OS v 1.4	English	PK01298, PQ77835, PQ71779, PQ65176	UK01096, UQ80328, UQ75401, UQ70416
	Japanese	PK01298	UK01095

Operating System Level	Language Version	APAR number for PTFs	PTFs
z/OS v 1.5	English	PK01298	UK01097
	Japanese	PK01298	UK01098
z/OS v 1.6	English	PK01298	UK01099
	Japanese	PK01298	UK01100

To install the options software on any of these operating systems, System Modification Program/Extended (SMP/E) Version 3 Release 1 or higher is required. The corresponding program number is 5655-G44.

WebSphere Developer host corequisites

The following products and other stated software are required to support specific features of WebSphere Developer. The WebSphere Developer 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 SDK for z/OS Java 2 Technology Edition, Version 1.4	No PTF or Service Level Required

2. COBOL Compiler

One of the following must be installed on the host to compile COBOL programs developed or edited within WebSphere Developer:

Program Number	Product Name	PTF's or Service Levels Required
5648-A25	IBM COBOL for OS/390® and VM V2.1 (minimum required level)	UQ24856, UQ46089, UQ42751
5655-G53	IBM Enterprise COBOL for z/OS V3.1	UQ75902
5535-G53	IBM Enterprise COBOL for z/OS V3.2	No PTF or Service Level Required
5535-G53	IBM Enterprise COBOL for z/OS V3.3	No PTF or Service Level Required

Additional Notes:

- a. IBM Enterprise COBOL v 3.1 is the minimum level required to support:
 - 1) Population of the WebSphere Developer task list with translate and co-process errors when COBOL programs with CICS and DB2 are built with the integrated option using WebSphere Developer build, JCL generation, and submission mechanisms
 - 2) The z/OS XML Converter of the XML Enablement for the Enterprise feature
 - 3) Unicode

Note: IBM Enterprise COBOL for z/OS v 3.1 is the minimum level of the compiler required to enable integrated translator support for CICS and integrated co-processor support for DB2.

- b. IBM Enterprise COBOL v 3.2 is a full function offering for remote debug support. Debug Tool for z/OS and OS/390 is shipped as part of this product.
- c. Population of the task 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.
- d. The related product website is www.ibm.com/software/awdtools/cobol/zos/

3. PL/I Compiler

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

Program Number	Product Name	PTF's or Service Levels Required
5688-235	PL/I for MVS and VM v 1.1	No PTF or Service Level Required
5655-B22	VisualAge® PL/I for OS/390 v 2.2	No PTF or Service Level Required
5655-H31	IBM Enterprise PL/I for z/OS and OS/390 v. 3.1	UQ75935
5655-H31	IBM Enterprise PL/I for z/OS and OS/390 v 3.5	UQ83140
5655-H31	IBM Enterprise PL/I for z/OS and OS/390 v 3.3	UQ77592
5655-H31	IBM Enterprise PL/I for z/OS and OS/390 v 3.4	No PTF or Service Level Required

Additional Notes:

- a. IBM Enterprise PL/I for z/OS and OS/390 v 3.2 is the minimum level required to support:
 - 1) Population of the WebSphere Developer task list with errors when PL/I programs are built using WebSphere Developer build, JCL generation, and submission mechanisms.

Note: IBM Enterprise PL/I for z/OS and OS/390 v 3.1 is the minimum level of the compiler required to enable integrated translator support for CICS and integrated co-processor support for DB2.

- b. IBM Enterprise PL/I v 3.2 is a full function offering for remote debug support. Debug Tool for z/OS and OS/390 is shipped as part of this product.
- c. **UQ83140** is the latest PTF required for IBM Enterprise PL/I v 3.2 to populate the task list with errors encountered during build or PL/I syntax check.
- d. The related product website is www.ibm.com/software/awdtools/pli/plizos/

4. Debug tool for OS/390 and z/OS

The following software must be installed on the host to support remote debugging of COBOL and PL/I programs from WebSphere Developer:

Program Number	Product Name	Programming Language	APARs, PTFs or Service Levels Required	Description
			PK12834	For all COBOL users of the English base

Program Number	Product Name	Programming Language	APARs, PTFs or Service Levels Required	Description
5655-L24	IBM Debug Tool for z/OS and OS/390 v 4.1	PL/I	PQ81519/UQ00004	For all PL/I users of the English base
			PQ81590/UQ00003	For utilities and advanced functions support
			PQ81521/UQ00005	For all PL/I users of the Japanese base
5655-M18	IBM Debug Tool for z/OS and OS/390 v 5.1	PL/I	all available maintenance	For all PL/I users of the English base
			all available maintenance	For utilities and advanced functions support
			all available maintenance	For all PL/I users of the Japanese base
5724-N06	IBM Debug Tool for z/OS and OS/390 v 6.0	PL/I, COBOL	PK12833	For all PL/I users of the English base
			PK12834	For all COBOL users of the English base

Additional Notes:

- a. This product must be ordered and purchased separately from WebSphere Studio Enterprise Developer Options for z/OS or the REXX Alternate Library; and can be ordered as a standalone product.
- b. The product is included in the full function support of either IBM Enterprise PL/I for z/OS and OS/390 Version 3 Release 2 (Program Number 5655-H31) or IBM Enterprise COBOL for z/OS and OS/390 Version 3 Release 2 (Program Number 5655-G53).
- c. The PTF UQ75633 for APAR PQ71801 is required to support configurations where the workstation client and Host both have firewalls in operation.
- d. The related product website is www.ibm.com/software/awdtools/debugtool/
- e. You must also be sure the following LE VisualAge PL/I Library PTFs are applied, in the order shown:

Table 6. VA PL/I debug PTFs

Program number	PTF	APAR
5688-198	UQ63827	PQ57907, debugger update
5688-198	UQ70331	PQ66023, automonitor support
5688-198	UQ81706	PQ79424, support structures with REFER
5688-198	UQ81706	PQ79424, message EQA1750E, "AN ERROR OCCURRED IN EXPRESSION EVALUATION". Occurs on PL/I assignment with debug tool variable as source of assignment.
5688-198	UQ81706	PQ79424, enhancements for V3R3, now also supported on V3R2

5. CICS Transaction Server

One of the following levels must be installed on the host 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	No PTF or Service Level Required

Additional Notes:

- a. CICS Transaction Server for z/OS v 2.2 has the integrated CICS Translator required to send errors encountered during WebSphere Developer build, JCL generation, and submission to the task list under the following conditions:
 - COBOL or PL/I programs with embedded CICS are built
 - The minimum compiler level is used: IBM Enterprise COBOL for z/OS v 3.1 or IBM Enterprise PL/I for z/OS and OS/390 v 3.1.
- b. The CICS Transaction Server requires additional configuration to work with the Debug tool.
- c. The related product websites are

www.ibm.com/software/htp/cics/platforms/cicsts/,
www-306.ibm.com/software/htp/cics/tserver/v31/ and
www-306.ibm.com/software/htp/cics/tserver/v23/.

6. IMS/ESA®

One of the following levels 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-B01	IMS/ESA v 7.1 or higher	No PTF or Service Level Required

Additional Notes:

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

7. DB/2 UDB for OS/390

One of the following levels must be installed on the host to support DB2 UDB for OS/390:

Program Number	Product Name	PTF's or Service Levels Required
5645-DB2	DB2 for z/OS and OS/390 v 6.1	No PTF or Service Level Required
5675-DB2	DB2 for z/OS and OS/390 v 7.1	PTF UQ75402

Additional Notes:

- a. DB2 for z/OS and OS/390 v 7.1 has the integrated preprocessor required to send errors encountered during WebSphere Developer build, JCL generation, and submission back to the WebSphere Developer 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 3.1 or IBM Enterprise PL/I for z/OS and OS/390 v 3.1.
- b. The related product website is www.ibm.com/software/awdtools/cobol/zos/.

8. CICS220

If you are using CICS220 as a target platform for EGL output, make sure that PTF UQ69442 has been applied to your CICS installation.

9. COBOL Runtime Support for z/OS

IBM Enterprise Developer Server for z/OS V5.0 provides the runtime libraries for programs that execute on z/OS. These are programs that were developed with either WebSphere Developer for zSeries or WebSphere Studio Enterprise Developer.

The runtime libraries provided by IBM Enterprise Developer Server for z/OS V5.0, provide common runtime subroutines that are shared by all Enterprise Generation Language (EGL) programs created with WebSphere Developer or WebSphere Studio Enterprise Developer (for example, data conversion and error management).

The following must be installed on the host to support the COBOL Runtime Support for z/OS.

Program Number	Product Name	PTF's or Service Levels Required
5655-I57	IBM Enterprise Developer Server for z/OS V5.0	UQ84056, UK00137



Program Number: 5724-L44

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