

IBM Rational Developer for System z



# Host Planning Guide

*Version 7.1*



IBM Rational Developer for System z



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**Note**

Before using this document, read the general information under "Notices" on page 11.

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

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## Preface

This document is intended for planning the installation of Developer for System z prerequisite and corequisite software on host systems. The document provides the System Programmer with information necessary to organize the overall host installation effort, including a roadmap to other documents for detailed installation and configuration instructions.

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### Before you use this document

IBM Rational Developer for System z Version 7.1 (Developer for System z) has prerequisites and functional requisites. The product will not function unless the prerequisites are met. A functional requisite is not necessary for the successful installation of the product, but it is needed at runtime for a specific function supported by the product.

The prerequisites and functional requisites mentioned in Chapter 3, “Host prerequisites and corequisites for IBM Rational Developer for System z,” on page 5 are also listed in the *Prerequisites for IBM Rational Developer for System z Version 7.1* (SC23-7659-00) .





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## Chapter 1. Introduction to the installation and configuration of the Developer for System z z/OS components

This chapter is primarily for planning purposes and to give you an overview of the steps involved in installing and customizing the IBM Rational Developer for System z z/OS components.

This chapter contains the following sections:

- Product overview
- Finding what you need (code and documentation)
- Skills and support required for host installation
- Time requirements for host installation
- Overview of the installation and configuration process

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### Product overview

1. Developer for System z (FMID: HHOP710) provides the following:
  - MVS™ file access (display, edit, etc.) in Remote Systems View and Project View
  - z/OS® UNIX® file access (display, edit, etc.) in Remote Systems View and Project View
  - TSO Commands
  - z/OS UNIX Commands
  - JES Subsystem job commands and display
  - JCL submission
2. Software Configuration and Library Manager (SCLM) Developers Toolkit (FMID: HSD3310) provides the following:
  - Software configuration management (SCM) services
  - A workstation-based portal to SCLM
  - Support for the development of Java™ and J2EE applications
3. Common Software Configuration Management Access (CARMA) (FMID: HCMA710) provides the following:
  - CARMA Repository View (not SCLM)
  - Productivity aid for software configuration management (SCM) API creation.

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### Skills and support required for host installation

Anyone attempting to install the Developer for System z host components must have the following skills:

- z/OS System programmer experience.
- z/OS UNIX experience.
- A working knowledge of TCP/IP network support.
- A working knowledge of security support (for example: RACF®)
- The ability to perform SMP/E installs.

A user with an installed Developer for System z client must also be available to verify the installation of the Developer for System z host components once the install is complete.

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## Time requirements for host installation

The amount of time required to install and configure the Developer for System z host components depends on the following:

1. Is z/OS UNIX configured?
2. Is the SCLM Developers Toolkit installed, configured and active?
3. Is INETD configured and active?
4. Is 31 bit Java 1.4.2 or higher available?  
**Attention: 64-bit is not supported.**
5. Are OMVS segments available for Developer for System z users?
6. Does the individual performing the install have the appropriate set of skills?
7. Is a user, who has successfully installed the client, available to test the install and report any problems that might occur?

Experience has shown that this process requires anywhere from one to four days to complete. This is for a clean install performed by an experienced system programmer – if problems are encountered, or the required skills are not available, the install will take longer.

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## Overview of the installation and configuration process

1. The system programmer SMP/E installs the FMIDs (HHOP710 and optionally, HCMA710, HSD3310) along with any available maintenance.
2. The system programmer customizes the components based on the specific configuration of their host system and the information provided in the *IBM Rational Developer for System z Host Configuration Guide*.

After the Developer for System z host components are installed and configured, use the Developer for System z client to connect and test product function.

## Overview of the configuration process

This is an overview of the configuration process. For more detailed information about configuring Developer for System z, see the *IBM Rational Developer for System z Host Configuration Guide*.

- MVS configuration
  - APF authorization
  - Customize configuration files
  - Create JES Job Monitor JCL
  - Customize build procedures
- z/OS UNIX configuration
  - Customize configuration files
  - Create Daemon
- Optionally installed component configuration
  - CARMA - configuration is optional based on your requirements
  - SCLM Developer Toolkit - configuration is optional based on your requirements

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## Chapter 2. Configuring the host components

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### Finding what you need (code and documentation)

The code and documentation for each of the following FMIDs is located on the IBM Rational Developer for System z Server Tools CD.

The information for each FMID is contained in the directory `ServerTools\FMID`. For example, everything you need for IBM Rational Developer for System z including the Program Directory – `hhop710.pdf` (SMP/E install) is located in the following directory:

`ServerTools\HHOP710`

On the Server Tools CD, in the `ServerTools\documentation` directory, you will also find the following manuals:

- *IBM Rational Developer for System z Host Planning Guide (GI11-8296-00)* - `wdhostplan.pdf`
- *IBM Rational Developer for System z Host Configuration Guide (SC23-7658-00)* - `hostconfig.pdf`
- *IBM Rational Developer for System z Prerequisites Guide (SC23-7659-00)* - `prereq.pdf`
- *Program Directory for IBM Rational Developer for System z (GF11-8298-00)* - `HHOP710.pdf`
- *Program Directory for IBM Rational Developer for System z Common Access Repository Manager (GF11-8299-00)* - `hcma710.pdf`
- *IBM Rational Developer for System z Common Access Repository Manager Developer's Guide (SC23-7660-00)* - `carmadevelopersguide.pdf`
- *Program Directory for IBM Software Configuration and Library Manager (SCLM) Developer Toolkit (GF11-8302-00)* - `hsd3310.pdf`

**Note:** For the tape delivery method, see *SCLM Developer Toolkit: Program Directory (GI11-8306-00)*

- *SCLM Developer Toolkit Installation and Customization Guide (SC23-8504)* - `BWBICG01.pdf`

The *IBM Rational Developer for System z Host Configuration Guide (SC23-7658-00)* contains valuable information and is essential for installing and configuring the Developer for System z host components.

**Note:** The EGL Runtime is a separate product and is not included as part of the IBM Rational Developer for System z product.



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## Chapter 3. 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.

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### 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/](http://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:

- Enterprise COBOL Version 3.4 is required to take advantage of new compiler limits.
- 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.
- The related product website is  
[www.ibm.com/software/awdtools/cobol/zos/](http://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.

- d. 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.
- e. 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 \*/
- f. The related product website is  
[www.ibm.com/software/awdtools/pli/plizos/](http://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
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:

- a. Debug Tool Utilities and Advanced Functions (DTU&AF) is a superset of Debug Tool.
- b. Debug Tool or Debug Tool Utilities and Advanced Functions (DTU&AF) must be ordered and purchased separately.
- c. 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/](http://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:**

- a. The CICS Transaction Server requires additional configuration to work with the Debug tool.
- b. 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/](http://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

Program Number	Product Name	PTF's or Service Levels Required
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. 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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Host Planning Guide  
Version 7.1

Publication No. GI11-8296-00

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