



Licensed Program Specifications

z/OS Version 2 Release 3 Product number 5650-ZOS

z/OS® is an advanced-technology, enterprise-wide server operating system. For a list of z/OS base elements and optional features, see [z/OS elements and features](#).

Note: Most topics and deliverables that are referenced in this LPS document reside in [IBM Knowledge Center \(www.ibm.com/support/knowledgecenter/SSLTBW/welcome\)](#).

Specified Operating Environment

Machine Requirements

z/OS Version 2 Release 3 requires z/Architecture® (64-bit) and runs on the following IBM processors:

- IBM z13®
- IBM z13s
- IBM z14
- IBM zEnterprise® BC12 (zBC12)
- IBM zEnterprise EC12 (zEC12)

For requirements about hardware and minimum storage, see [Identifying hardware requirements for the target system](#). For requirements about specific elements, see [Additional hardware requirements for running z/OS](#).

Programming Requirements

For z/OS, most of the software requirements of a specific element are satisfied by other elements in z/OS. However, some elements have optional functions with software dependencies beyond z/OS. These features are worldwide exportable but subject to export tracking regulations.

For more requirements of specific elements and information about specific release service levels of other IBM products that run with z/OS, see [Software requirements for running z/OS](#).

Licensed Program Materials Availability

Restricted materials - Yes.

This licensed program is available with source licensed program materials for some modules that are designated as "RESTRICTED MATERIALS OF IBM." The remaining licensed programming materials are available and are not designated as "RESTRICTED MATERIALS OF IBM."

All New Function delivered through D-Type APARs is considered part of the "Program" with which it is associated. Its use is subject to the license terms that govern the Program, as set forth in the ICA, CRA, or equivalent agreement between you and IBM.

Supplemental Terms

Designated Machine Identification

Designated Machine Identification Required - Yes.

Program Features Not Used on the Designated Machine

Some of the elements and optional features in z/OS have components that are designed for use on machines other than the Designated Machine on which z/OS is used. You can make copies of a component and corresponding documentation in support of your authorized use of z/OS. Persons that use a machine outside of your enterprise can use the copy only to access your copy of z/OS licensed hereunder.

Location License

Not applicable.

A separate license is required for each machine on which the licensed program materials are used.

Use-Based Charges/Usage Restriction

Charges for this program are eligible for a pricing method referred to as Subcapacity Pricing, subject to the applicable terms. For information about Subcapacity Pricing, see [z/OS Planning for Sub-Capacity Pricing](#).

z/OS licensees are authorized to use only z/OS base elements, features that are licensed with the base, or optional features that they ordered and received enabled from IBM. Other optional features of z/OS are initially disabled. Customers must notify IBM when they enable optional features that were initially disabled. Optional features that are then enabled are subject to the payment terms of the license for z/OS. For more information about enabling or disabling z/OS features, see [Using dynamic enablement](#).

Your current z/OS license entitles you to use the Interactive Problem Control System (IPCS) from any versions of z/OS or OS/390® for which you held valid licenses ("Prior Versions") on your current validly licensed level of z/OS for the sole purpose of processing dumps taken on those Prior Versions. You are allowed to make copies of the data sets containing the necessary IPCS programs and other IPCS parts from your Prior Versions and use them to run those levels of IPCS on your current validly licensed level of z/OS. Nothing herein extends support of the IPCS components for Prior Versions for which IBM service was withdrawn. For information about how to use prior levels of IPCS on your current system, see [z/OS MVS IPCS Customization](#).

Licensee agrees to comply with the [License Agreement for Machine Code and Licensed Internal Code \(www.ibm.com/systems/support/machine_warranties/machine_code.html\)](#) and the [Approaches to automation with IBM Health Checker for z/OS](#), each of which is incorporated by reference into this Licensed Program Specification and your IBM license to the Program.

The Integrated Cryptographic Service Facility (ICSF) component includes VISA Format Preserving Encryption (VFPE) technology, which forms part of Visa Inc.'s Data Secure Platform (DSP). The use of this function requires a service agreement with Visa Inc. You must maintain a valid, binding, and enforceable service agreement with Visa when you use DSP/FPE. For more information, contact your Visa Account Manager or inquire at P2PE@visa.com.

Software Cryptographic Service Providers

Portions of the IBM Weak Software Cryptographic Service Provider and the IBM Software Cryptographic Service Provider in the z/OS Security Level 3 feature contain software code that is provided by RSA Data Security, Inc.

You are only authorized to use the RSA software that is contained in the Product to issue Certificates solely for directly certifying other users within your Enterprise with whom you exchange data. You cannot use the RSA software to issue Certificates to third parties, act as a Certification authority, or provide Certificate-issuing services or any fee-generating service that is associated with the issuance of Certificates.

Before you use the RSA API for development or testing, you must contact RSA. See the [RSA \(www.rsa.com\)](http://www.rsa.com) for contact information.

Before marketing, selling, or distributing applications that were developed with the RSA API, you must first obtain a license from RSA for that purpose.

Note: Other methods of creating certificates that use cryptographic service providers that are provided by IBM do not carry these restrictions.

Cryptographic Services Open Cryptographic Services Facility

Any application that you create, export, or reexport from the US with the Open Cryptographic Services Facility Cryptographic Services or System SSL Services might be subject to special export licensing requirements by the Bureau of Export Administration of the US Department of Commerce.

Integrated Cryptographic Service Facility

The implementation of the VISA Format Preserving Encryption (VFPE) algorithm that is contained within this IBM machine hardware, software, and program(s) is licensed by Visa Inc.

You are only authorized to use VFPE that is contained in the Product for payment purposes, and Customer agrees to restrict the use of such implementation to such payment purposes. You may not use VFPE for any non-Data Secure Platform (DSP) activities.

Prior to using VFPE, you must contact Visa Inc. as follows to procure a license:

- Contact: Shahzad Khan (415) 805-4232
- Address: P.O. Box 8999, San Francisco, CA 94128 USA
- Website: [VISA \(www.visa.com\)](http://www.visa.com)

Type/Duration of Program Services

Program Services, including the IBM Support Center, are available until discontinued by IBM upon 12 months written notice.

Authorization for Copy and Use on Home/Portable Computer

Not Applicable for this Program.

Documentation

z/OS includes documentation in displayable form. Except as provided here, the terms and conditions of the license agreement with IBM apply to this documentation and to any copies that are made from it.

Additional Supplemental Terms

Excluded Components

The following components are considered "Excluded Components."

- Apache Derby SDK
- Automatically Tuned Linear Algebra Software (ATLAS)
- Berkeley UNIX C Shell
- Commons-Collections
- Commons-FileUpload
- Commons-Lang
- Commons-Net
- Commons-Pool
- Dojo Toolkit
- IBM Knowledge Center Customer Install Edition
- ICU
- Jackson
- log4javascript
- OpenPegasus
- OpenPegasus CIM Client Header Files
- OpenSSH
- OpenSSL
- Sample code as distributed in `/usr/lpp/zosmf/samples`
- Unicode common locale data repository (CLDR)
- Velocity
- X Window System
- x11-ssh-askpass
- zlib

See the README.TXT file that accompanies the Program for notices and important information that IBM is required to provide to You regarding the Excluded Components. The license terms that are contained in this IBM Agreement, and not the license terms that might be contained in the README.TXT file, govern Your use of the Excluded Components.

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Excluded Components in the Program are those components that are referenced in any README file that is located in data set SYS1.SAMPLIB in member IEARDME that is included with the Program or a fix pack or update to the Program.

Redistribution of Code Routines

This document includes information about certain callable service stub and linkage-assist (stub) routines and other routines that are contained in specific data sets and file system directories that are intended to be bound, link-edited, or otherwise included with code and run on z/OS systems. With your authorized use of z/OS, you can include these routines into your modules and distribute your modules with the included routines for the purposes of developing, using, marketing, and distributing programs that conform to the documented programming interfaces for z/OS, provided that each routine is included in its entirety, including any IBM copyright statements. These routines were not thoroughly tested under all conditions. Therefore, IBM cannot guarantee or imply the reliability, serviceability, or function of these programs.

The referenced routines are contained in the following data sets and in z/OS UNIX System Services files.

- CBC.SCCNOBJ
- CBC.SCCNM10
- CBC.SCCNM11
- CBC.SCCNM12
- CBC.SCCNN10
- CBC.SCCNN11
- CBC.SCCNN12
- CBC.SCLBCPP
- The MASS library files in the /usr/lpp/cbclib/lib directory.
- The ATLAS library files in the /usr/lpp/cbclib/lib/atlas directory.
- CEE.SAFHFORT
- CEE.SCCR3BND
- CEE.SCCR6BND
- CEE.SCEEBIND
- CEE.SCEEBND2
- CEE.SCEECPP
- CEE.SCEELKED
- CEE.SCEELKEX
- CEE.SCEE OBJ
- CEE.SCEESPC
- CEE.SIBMAM24
- CEE.SIBMCALL
- CEE.SIBMCAL2
- CEE.SIBMMATH
- CEE.SIBMTASK
- CSF.SCSFSTUB
- SYS1.CSSLIB
- TCPIP.SEZACMTX
- TCPIP.SEZADPIL
- TCPIP.SEZALIBN
- TCPIP.SEZAOLDX
- TCPIP.SEZARNT1
- TCPIP.SEZARNT2
- TCPIP.SEZARNT3
- TCPIP.SEZARNT4
- TCPIP.SEZARPCL

- TCPIP.SEZAXAWL
- TCPIP.SEZAXMLB
- TCPIP.SEZAXTLB
- TCPIP.SEZAX11L
- TCPIP.SEZAROE3
- TCPIP.SEZAROE1
- TCPIP.SEZAROE2
- The libzz.a file in the /usr/lpp/hzc/lib/ directory.
- The zconf.h, zlib.h, and zlib.h files in the /usr/lpp/hzc/include/ directory.
- The aopapi.h file in the /usr/lpp/Printsrv/samples directory.
- The libaopapi.a file in the /usr/lpp/Printsrv/lib directory.

Dinkum C++ Library

You must display the copyright notice "Copyright 2004 Licensed to IBM and its Suppliers" in any products that include portions of the Dinkum C++ Library, which is included with XL C/C++ and Runtime Library Extensions, or derivative work based thereon. You may not remove or alter the copyright notice embedded in the Dinkum C++ Library.

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A "Supporting Program" is an original and whole or partial copy of any of the following items that is provided with z/OS but is part of another IBM offering.

- Machine-readable instructions and data
- Components, files, and modules
- Audio-visual content, such as images, text, recordings or pictures
- Related licensed materials, such as keys and documentation

z/OS is licensed as a multi-product package and includes the following identified Supporting Programs.

- IBM WebSphere® Application Server for z/OS

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