



Licensed Program Specifications

z/OS.e™ Version 1 Release 4 Program Number 5655-G52

| z/OS.e Version 1 Release 4 is a specially priced offering of z/OS™ providing select z/OS function at a reduced price. z/OS.e is available on the IBM® eServer zSeries™ 800 (z800). It is intended to help z800 customers exploit the fast growing world of next-generation e-business by making the deployment of new Java and C/C++ applications on the z800 attractively priced.

z/OS.e has the same code base as the z/OS operating system customized with new system parameters. However, z/OS.e is a different product from z/OS. z/OS.e licensing terms and conditions, and in many instances functional restrictions, prevent customers from running traditional workloads and from using certain elements and features.

z/OS.e is for next generation workloads. It is an attractive solution when you need an Enterprise Application Server (EAS) or database server for customer relationship management (CRM), supply chain management (SCM), enterprise resource planning (ERP), business intelligence, and DB2®-based solutions that are written in the Java or C/C++ programming languages.

Base Elements

Customers can use the following base elements of

| z/OS Version 1 Release 4 in z/OS.e Version 1
| Release 4:

- Base Control Program (BCP)
- BookManager® BookServer

- Bulk Data Transfer (BDT)
- C/C++ IBM® Open Class™ Library¹
- Communications Server
- Cryptographic Services
- DCE Base Services
- DFSMSdftp™
- Distributed File Service
- EREP
- ESCON® Director Support
- FFST™
- Hardware Configuration Definition (HCD)
- High Level Assembler (HLASM)
- IBM HTTP Server
- IBM License Manager²
- ICKDSF
- ISPF
- JES2³
- Language Environment®⁴
- Managed System Infrastructure (msys) for Operations
- msys for Setup
- Network File System (NFS)
- Open Systems Adapter Support Facility (OSA/SF)
- SMP/E
- Text Search
- TIOC
- TSO/E⁵
- z/OS UNIX® System Services
- 3270 PC File Transfer Program

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¹ The C/C++ IBM Open Class Library component of C/C++ is licensed with the z/OS.e base operating system and can be used without enabling the C/C++ optional feature.

Optional Features

Customers can use the following optional elements of z/OS in z/OS.e Version 1 Release 4:

- BDT SNA NJE
- C/C++ with Debug Tool¹
- C/C++ without Debug Tool¹
- Communications Server Security Level 3⁷
- DFSMSdss™
- DFSMSShsm™
- DFSMSrmm™
- DFSORT™
- Hardware Configuration Manager (HCM)
- HLASM Toolkit
- IBM HTTP Server NA Secure
- Infoprint® Server
- JES3⁶
- Open Cryptographic Service Facility Security Level 3⁷
- RMF™
- SDSF⁹
- Security Server⁸
- Security Server Network Authentication Service Level 3⁷
- System SSL Security Level 3⁷

The following elements and features of z/OS are not licensed for use with z/OS.e Version 1 Release 4, and are not functional in z/OS.e Version 1 Release 4, and customers are not permitted to use these elements and features with z/OS.e Version 1 Release 4:

- BDT File-to-File
- BookManager BUILD
- BookManager READ
- DCE Application Support
- GDDM®
- GDDM-PGF

- GDDM-REXX

The following elements of z/OS are not licensed for use with z/OS.e Version 1 Release 4 and customers are not permitted to use these elements with z/OS.e Version 1 Release 4:

- Encina® Toolkit Executive
- MICR/OCR

Specified Operating Environment

Machine Requirements: z/OS.e Version 1 Release 4 requires z/Architecture™ and runs on the IBM @server zSeries 800 machine type 2066, or a comparable non-IBM server, in z/Architecture (64-bit) mode and in a logical partition (LPAR) named ZOExxxx (where xxx is any valid combination of zero to four characters).

For additional requirements of specific elements, see "Appendix D, Hardware requirements for z/OS and z/OS.e elements and features" in *z/OS and z/OS.e Planning for Installation Release 4*, GA22-7504.

Software Requirements: To use z/OS.e, you must specify LICENSE=z/OS.e in the system parameter list (IEASYSxx) in parmlib or at the operator console during IPL.

z/OS.e can run as a guest under z/VM™, but not under VM/ESA®. The server must be a z800 or a comparable non-IBM server. z/VM and z/OS.e must operate in z/Architecture (64-bit) mode and z/VM and z/OS.e must run in an LPAR (or LPARs) named ZOExxxx (where xxx is any valid combination of zero to four characters). Linux® for S/390® and Linux® for IBM @server z/Series are

² IBM License Manager is not available for use at this time. This function is expected to be available at a future date.

³ You cannot use a prior level of JES2 with z/OS.e.

⁴ Language Environment Library Routine Retention (LRR) and Language Environment's use of the Run Time Library Services (RTLS) are not functional and not licensed for use with z/OS.e. Language Environment Compatibility Preinitialization for C and PL/I is not licensed for use with z/OS.e. Customers are not permitted to use lower levels of Language Environment in z/OS.e. For restrictions regarding programming languages and products, see "Charges/Usage Restrictions."

⁵ A maximum of eight concurrent TSO/E users are allowed with z/OS.e.

⁶ You cannot use a prior level of JES3 with z/OS.e.

⁷ These features are world-wide exportable, but subject to export tracking regulations.

⁸ The following components of the z/OS Security Server optional feature are licensed with the z/OS.e base, and can be used without enabling the Security Server optional feature: the LDAP Server, the IKE and Configuration GUI (function in Firewall Technologies component), the Network Authentication Service component, the Open Cryptographic Enhanced Plug-ins, and PKI Services.

⁹ BookManager help is not available for SDSF SYSLOG messages in z/OS.e.

the only other operating systems that may run as a guest under z/VM in an LPAR (or LPARS) named ZOSExxxx.

In a z/OS.e environment, IBM requires that you submit Transmit System Availability Data (TSAD) for:

- A z800 with a z/OS.e license or
- A z800 with both a z/OS.e license and sub-capacity Workload License Charges

You can submit TSAD using the IBM Remote Support Facility (RSF) available on the z800 or by mailing a diskette or DVD cartridge to IBM.

If you are using RSF, an IBM service representative can enable it for you when your z800 is installed. If RSF is not enabled, contact your IBM service representative.

If you are mailing a diskette or DVD cartridge to IBM, see the procedure described in the "Transmit Service Data" task for the support element in the *Hardware Management Console Operations Guide*. When you are performing this task, select the system availability button. Once you have copied the data to the diskette or DVD, label whichever you are using with the CPC type, model number, and serial number, and send it to the following address:

Server Group zSeries RAS Engineering
B64A/707-2B86 (MS-P317)
2455 South Road
Poughkeepsie, NY 12601

For z/OS.e, most of the software requirements of a specific element are satisfied by other elements in z/OS.e; however, some elements have optional functions with software dependencies beyond z/OS.e.

For additional requirements of specific elements and features, information about specific release/service levels of the IBM products that run with z/OS.e, and restrictions on using IBM products that run with z/OS.e, see "Appendix B, Software requirements for z/OS and z/OS.e elements and features" and "Appendix C, Minimum releases of IBM software products that run with z/OS and z/OS.e" in *z/OS and z/OS.e Planning for Installation*.

Licensed Program Materials Availability

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

Supplemental Terms

Designated Machine Identification: Designated Machine Identification Required - Yes.

Testing Period: Basic license - Two (2) months. Distributed Systems License Option (DSLO) - None.

Licensees may test z/OS.e for a period of two months for no charge; only one testing period per licensee is allowed for each release of z/OS.e. Licensees will be charged for any z/OS.e optional features that are ordered after the start of the testing period.

If licensees are not completely satisfied with any subsequently ordered features, they may request a credit of up to two months of payments. IBM will issue the credit, providing that licensees first disable the feature and notify IBM accordingly. Upon issuance of the credit, the license to the applicable feature is terminated. No credit is available if the same features are subsequently enabled.

For more information about enabling or disabling z/OS.e features, see the section "Using dynamic enablement" in *z/OS and z/OS.e Planning for Installation*.

Installation/Location License: Not applicable.

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

Charges/Usage Restrictions: Charges for this program are a flat monthly license charge (MLC) priced on a "per engine" basis. For information about pricing, see the *z800 Software Pricing Configuration White Paper*, GM13-0121.

z/OS.e is licensed only for use with "new workloads" and it disables traditional workloads. z/OS.e will not execute CICS™, IMS™, COBOL, or FORTRAN applications, among other applica-

tions. However, precompiled COBOL DB2 stored procedures and other precompiled COBOL applications using the Language Environment preinitialization interface (CEEPIPI) are supported. You cannot use the following compilers: COBOL, PL/I, VisualAge PL/I, and FORTRAN. However, z/OS.e supports the execution of precompiled PL/I and VisualAge PL/I applications.

Regarding IBM programs, only supported IBM programs are licensed to run on z/OS.e. IBM designates the IBM programs supported by z/OS.e in *z/OS and z/OS.e Planning for Installation*, which may change without notice.

z/OS.e licensees are authorized to use only base elements licensed to be used in z/OS.e, features licensed with the base, or optional features that they have ordered and received enabled from IBM. Some optional features are shipped disabled with z/OS.e. Customers must notify IBM when they enable optional features that were shipped disabled. Optional features that are subsequently enabled are subject to the payment terms of the license for z/OS.e.

For more information about the differences between z/OS.e and z/OS, see the section "How z/OS.e differs from z/OS" in *z/OS and z/OS.e Planning for Installation*.

Portions of the IBM Weak Software Cryptographic Service Provider and the IBM Software Cryptographic Service Provider in the Open Cryptographic Services Facility (OCSF) Security Level 3 feature contain software code provided by RSA Data Security, Inc.

Prior to using the APIs of either service provider for development or testing, you must contact RSA Data Security, Inc. (RSA). Send your name, company name, address, and telephone number to:

Email: sales@rsa.com
or
RSA Data Security, Inc.
2955 Campus Drive
Suite 400
San Mateo, CA 94403-2507
Attention: SALES
or
Fax: 650-295-7770
Attention: SALES

Prior to marketing, selling, or distributing applications that have been developed by using the APIs of either service provider, you must first obtain a license from RSA for that purpose.

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Security Server: The following components of the Security Server optional feature are licensed with the z/OS.e base and can be used without enabling the feature and without additional cost:

- LDAP Server
- IKE and Configuration GUI (function in the Firewall Technologies component)
- Open Cryptographic Enhanced Plug-ins
- PKI Services
- Network Authentication Service component

Communications Server: The Communications Server element of z/OS.e includes software developed by Eric Young. The portions of z/OS.e that are based on software developed by Eric Young are Copyright (c) 1995-1998 Eric Young. All rights reserved. Your use of the software developed by Eric Young in binary form accompanying z/OS.e is subject to the terms and conditions of the following license from Eric Young:

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 */

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C++ Class Library DLLs: The C/C++ IBM Open Class Library component is licensed with the z/OS.e base and can be used without enabling the C/C++ feature. When redistributing applications that use the C++ Class Library DLLs to execute on systems prior to z/OS.e Version 1 Release 4, you only can copy the message files and C++ Class Library DLL modules in the SCLBDLL Library.

You may distribute the above modules as part of your software programs provided that you:

- Rename the data set member and alias names; then use the DLL Rename Utility to update the references to the renamed DLLs in your application modules.
- Reproduce and distribute the modules in object code-format only.
- Reproduce or distribute the modules only as part of an executable software program or application.
- Do not use the name, logo, or trademarks of IBM, AT&T, or UNIX System Laboratories to market software products containing the modules.
- Do not include any other part of the software as part of an executable software program.
- Label each distribution copy of the I/O Stream and Complex Mathematics Class Library DLL modules as follows:

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You may build the object code files from the source code included in the Source Feature. You may use the files included in the Source Feature as part of any software application you write, provided that:

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- Rename the DLL file that you build so its name is different from that provided in the source code.
- Your application is not merely a set or subset of the Source Feature code.
- Your application is not a compiler or a product that provides developers with a class or a collection of classes (that is, a class library such as the class libraries contained in the Source Feature code).
- You remain solely responsible to anyone receiving your application for any support,

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Program Features Not Used on the Designated Machine

Some of the elements and optional features in z/OS.e have components that are designed for use on machines other than the designated machine on which z/OS.e is used. You may make copies of a component and corresponding doc-

umentation in support of your authorized use of z/OS.e. Persons using a machine outside of your enterprise may use the copy only to access your copy of z/OS.e licensed hereunder.

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