



Licensed Program Specifications

z/OS™ Version 1 Release 4 Program Number 5694-A01

z/OS is the next generation of the OS/390® operating system. It is an advanced-technology, enterprise-wide server operating system. z/OS and the IBM @server™ zSeries 900 server deliver a highly secure, available platform to handle tremendous, unpredictable volumes of e-business workload.

Base Elements

z/OS Version 1 Release 4 contains the following base elements:

- Base Control Program (BCP)
- BookManager® BookServer
- BookManager READ
- Bulk Data Transfer (BDT)
- C/C++ IBM® Open Class™ Library¹
- Communications Server
- Cryptographic Services
- DCE Application Support
- DCE Base Services
- DFSMSdftp™
- Distributed File Service
- Encina® Toolkit Executive
- EREP
- ESCON® Director Support
- FFST™
- GDDM®
- Hardware Configuration Definition (HCD)
- High Level Assembler (HLASM)
- IBM HTTP Server
- IBM License Manager²
- ICKDSF
- ISPF
- JES2
- Language Environment®
- Managed System Infrastructure (msys) for Operations
- Managed System Infrastructure for Setup
- MICR/OCR
- Network File System (NFS)
- Open Systems Adapter Support Facility (OSA/SF)
- SMP/E
- Text Search
- TIOC
- TSO/E
- z/OS UNIX® System Services
- 3270 PC File Transfer Program

Optional Features

z/OS Version 1 Release 4 contains the following optional features:

- BDT File-to-File
- BDT SNA NJE
- BookManager BUILD
- C/C++ with Debug Tool¹
- C/C++ without Debug Tool¹
- Communications Server Security Level 3³
- DFSMSdss™
- DFSMShsm™
- DFSMSrmm™
- DFSORT™
- GDDM-PGF
- GDDM-REXX
- Hardware Configuration Manager (HCM)
- HLASM Toolkit
- IBM HTTP Server NA Secure

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

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

- Infoprint® Server
- JES3
- Open Cryptographic Service Facility Security Level 3³
- RMF™
- SDSF
- Security Server⁴
- Security Server Network Authentication Service Level 3³
- System SSL Security Level 3³

Specified Operating Environment

Machine Requirements: z/OS Version 1 Release 4 runs on the following IBM processors:

- IBM @server zSeries 900 (z900)
- IBM @server zSeries 800 (z800)
- IBM S/390® Parallel Enterprise Server®--Generation 5 and Generation 6
- IBM S/390 Multiprise® 3000 (all models)

z/OS runs in z/Architecture (64-bit) mode on a server that supports z/Architecture™ (a zSeries server or compatible hardware). 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: 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.

For additional requirements of specific elements and information about specific release/service levels of other IBM products that run with z/OS, see "Appendix B, Software requirements for z/OS and z/OS.e elements and features" and "Appendix C, Minimum releases of IBM software products" in *z/OS and z/OS.e Planning for Installation Release 4*, GA22-7504.

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 for a period of two months for no charge; only one testing period per licensee is allowed for each release of z/OS. The no-charge testing may include the z/OS base product and any previously ordered z/OS optional features. Licensees will be charged for any z/OS 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 disabling z/OS features, see the section "Disabling what was enabled" 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.

³ These features are world-wide exportable, but subject to export tracking regulations.

⁴ The following components of the z/OS Security Server optional feature are licensed with the z/OS 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.

Charges/Usage Restriction: Charges for this program, based on workload, use a pricing method referred to as Workload Licensing Charges (WLC), subject to the applicable terms. For information about WLC, see *z/OS Planning for Workload License Charges*, SA22-7506.

z/OS licensees are authorized to use only z/OS base elements, features licensed with the base, or optional features that they have ordered and received enabled from IBM. Other optional features of z/OS are shipped disabled. 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.

For more information about enabling or disabling z/OS features, see the section "Using dynamic enablement" in *z/OS and z/OS.e Planning for Installation Release 4*, GA22-7504.

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<<mailto: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 base and can be used without enabling the feature and without additional cost:

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

Communications Server: The Communications Server element of z/OS includes software developed by Eric Young. The portions of z/OS 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 is subject to the terms and conditions of the following license from Eric Young:

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 *
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 * display the following acknowledgement:
 * "This product includes cryptographic
 * software written by Eric Young
 * (eay@cryptsoft.com)"
 * The word 'cryptographic' can be left out
 * if the [routines] from the library
 * being used are not cryptographic related.

```

```

* 4. If you include any Windows specific code
 * (or a derivative thereof) from the apps
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C++ Class Library DLLs: The C/C++ IBM Open Class Library component is licensed with the z/OS 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 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:

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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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September 2002

Printed in U.S.A.

GA22-7503-05

