



IBM z/OS V1R3: Enabling and Protecting Your e-business and Preview: IBM z/OS V1R4

Overview

z/OS V1R3 offers:

Greater Ease-of-Use through Innovative Technology

- Workload Manager (WLM) self-optimizing advances that reduce occurrences of page-outs from blocking page-in operations
- Self-configuration with msys for Setup for UNIX® System Services and Language Environment® (LE)
- Improved performance, availability, system throughput, and usability for data access and storage management: recall workload can be balanced across multiple hosts with each DFSMSHsm™ host placing its recall requests in a common queue in the coupling facility; one-step Hierarchical File System (HFS) data set copying; ability to define DASD volume sizes up to 32,760 cylinders on IBM Enterprise System Servers (ESS) storage controllers; and the ability to specify the separation of primary and alternate couple datasets or software duplexed DB2® logs on different DASD subsystems
- Lock contention relief reduces startup time for resource managers
- Page data set serialization to prevent two systems from accidentally using the same physical data set

More Tools to Manage Your e-business

- Security-rich Internet transactions through Public Key Infrastructure (PKI)
- Additional protection of personal identification numbers (PINs)
- Highly secure encryption with Advanced Encryption Standard algorithm

Improved Application Flexibility

- Granting or denying UNIX file access through Access Control Lists
- OMVS address space recycling without the need for a re-IPL

z/OS™ V1R4 will offer new Internet Protocol Version 6 (IPv6) support, and TN3270 and FTP security and configuration enhancements.

Key Prerequisites

z/OS V1R3 runs on the following IBM servers:

- z900 or comparable server
- z800 or comparable server
- S/390 Parallel Enterprise Servers — Generation 5 (G5) and Generation 6 (G6) models or comparable server
- All models of the Multiprise® 3000 Enterprise Server or comparable server

For a complete description of z/OS V1R3 software prerequisites, refer to the *z/OS and z/OS.e Planning for Installation (GA22-7504)* publication which is available on the Web at:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/find_books.html

Planned Availability Date

March 29, 2002

At a Glance

z/OS V1R3 offers:

- Embedded Public Key Infrastructure (PKI) in the Security Server for security-rich Internet transactions
- Ease-of-use enhancements for data access and storage management
- Access Control List (ACL) support for z/OS UNIX System Services users
- Language Environment and z/OS UNIX System Services exploitation of msys for Setup
- msys for Operations — May lower ownership costs and reduce outages
- IBM @server zSeries File System (zFS) function for processing and administration
- TSO/E — Allows more flexible broadcast data set processing

z/OS V1R4 offers new Internet Protocol Version 6 (IPv6) support, and TN3270 and FTP security and configuration enhancements.

For ordering, contact:

Your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at

800-IBM-CALL

Reference: LE001

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: <http://www.ibm.com>.

Description

What's New in V1R3

z/OS V1R3 continues to offer new and improved tools to manage your e-business, better application flexibility, and greater ease-of-use through innovative technology. A summary of some previously announced capabilities for z/OS V1R3 is provided below, followed by details on additional capabilities that are generally available with z/OS V1R3:

- Enhancements to data access and storage management, and improvements to system throughput by enabling DFSMSshm to use the commonly accessible coupling facility for its recall work queues
- HFS data set copying in one easy step
- Trusted infrastructure required for security-rich Internet transactions provided by PKI, a new component of z/OS
- Easier shutdown and restart of the z/OS UNIX System Services environment
- Improved performance and management of the zFS
- Help to administrators to more effectively manage z/OS UNIX file systems
- Easier installation of z/OS UNIX System Services and Language Environment
- Updates to the system logger that improve the ability of an installation to more dynamically manage log stream resources in a Parallel Sysplex®

For information about previously announced functions in z/OS V1R3, refer to Software Announcement 200-352, dated October 3, 2000 (use **Ctrl+F** and search on **Preview: z/OS**).

e-business Enabling

Security for Your e-business: The new **IBM Policy Director Authorization Services** for z/OS and OS/390® (5655-F95) is a key security product that requires the z/OS Security Server. Policy Director Authorization Services is available at no additional charge, is intended for those customers who have a license for OS/390 V2R10 (5647-A01) or z/OS V1R1 (5694-A01), or later, and provides the following capabilities:

- Enables centrally manageable security policies for cross-platform e-business applications
- Builds on a z/OS and OS/390 security infrastructure patterned after open industry standards

For more information about IBM Policy Director Authorization Services, refer to Software Announcement 201-342, dated November 27, 2001.

Application Flexibility

64-Bit Middleware Support: z/OS V1R3 provides the operating system support to build and execute new 64-bit programs that take advantage of large 64-bit virtual data addressability.

Binder Support for Very Long Symbols: The z/OS V1R3 Binder can now process modules containing external symbols up to 32K-1 bytes in length, matching current compiler limits.

zFS: The Distributed File Service includes the Server Message Block (SMB) server and zSeries File System support for the extended authorization provided by UNIX ACLs. zFS has also been enhanced to participate in normal UNIX file system shutdown processing which will reduce zFS operational and restart considerations. zFS administration has been improved with the capability to support zFS file system mount statements in the BPXPRMxx parameter library member.

Euro Sign Support: z/OS V1R3 includes Euro Currency Symbol support for an additional set of countries and languages.

Ease-of-Use through Innovative Technology

TSO/E Dynamic Broadcast Support: TSO/E allows more flexible broadcast data set processing:

- You can switch to a different broadcast data set dynamically without an IPL.
- System programmers can specify the IKJTSOxx parmlib member on the IPL parameters.
- The TSO/E dynamic broadcast support includes new system commands to allow an installation to dynamically activate an IKJTSOxx parmlib member (SET IKJTSO=xx) and display the settings of the active IKJTSOxx parmlib member (DISPLAY IKJTSO). These new system commands complement the TSO/E PARMLIB command in providing greater flexibility when customizing TSO/E parmlib settings.
- You are no longer required to name the broadcast data set SYS1.BROADCAST. You can specify the broadcast data set name that you wish to use on the new BROADCAST parameter on the SEND statement of the IKJTSOxx parmlib member.
- The entry for the broadcast data set is no longer needed in master JCL. Instead, TSO/E allocates the broadcast data set during IPL.
- TSO/E now allows you to log on even if the broadcast data set has not yet been allocated.

z/OS msys for Operations — Self-Healing: z/OS Managed System Infrastructure for Operations (msys for Operations) has been a base element of z/OS since V1R2. It incorporates well-proven automation technology into z/OS. msys for Operations has been enriched by new self-healing and ease-of-use functions for critical system and sysplex resources and to simplify the day-to-day operation of a z/OS Parallel Sysplex cluster.

With z/OS V1R3, msys for Operations has been enhanced to execute hardware functions on a coupling facility and on systems joining a Parallel Sysplex. Monitoring of system events has been extended to avoid system outage conditions due to resource shortages (such as auxiliary storage shortage) or sysplex-wide outages due to operator mistakes or system load. Critical resources in a sysplex that are provided with these self-healing mechanisms are tasks issuing enquiry (ENQ) requests, auxiliary storage, or structures in pending state. msys for Operations will identify long-blocking tasks in contention, and resolve this contention based on a user-defined policy. Furthermore, msys for Operations will resolve auxiliary storage shortages by adding local page data sets and relieves structures from pending state upon a Coupling Facility Resource Manager (CFRM) policy switch.

With msys for Operations, you can easily manage all the systems in a Parallel Sysplex cluster, Coupling Facilities (CFs) and their structures, and couple data sets (CDS). By automating typical operator tasks and events in a Parallel Sysplex, it reduces operations complexity and improves system recoverability, enhancing the availability of Parallel Sysplex clusters. Distinct displays of relevant information allow greater operational awareness, providing ease of use. It is also possible to deactivate and activate a CF when backing it up to a spare CF with one interactive command (that is, with one command, customers will be able to activate a spare CF, to drain the current CF, rebuild its structures in the spare CF, release the current structure connections, reconnect them to the spare CF, and deactivate the current CF).

Additionally, msys for Operations provides new functions if a system does not behave as expected after an IPL. Systems leaving a sysplex will no longer require an operator action. A user predefined action will be taken instead. The msys for Operations operator interface has been extended to allow for setting sender paths to ONLINE/OFFLINE and to automatically start duplexing after rebuilding a duplexed structure.

In summary, customer benefits include:

- Increased availability of systems and applications by greater operational awareness and improved system recoverability
- May decrease total cost of ownership by reduced operations complexity and may reduce outages due to operation errors

WLM Self-Optimizing Advances: WLM and SDSF are enhanced to allow operators or system programmers to change the service characteristics of work units running as WLM enclaves. This provides improved operational management of distributed DB2 scalable Web server and WebSphere™ 4.0 work requests.

System availability is impacted when certain events, such as an SVC dump, cause a burst of paging activity that delays page fault resolution for critical work loads. Paging datasets on Enterprise Storage Servers can now use parallel access volumes to reduce page outs from blocking page-in operations to enhance the availability and performance of z/OS.

Starting with z/OS V1R3, WLM Compatibility Mode is no longer supported.

Additional Enhancements to Data Access and Storage Management: In z/OS V1R3, DFSMS provides additional enhancements to availability, system throughput, and usability for data access and storage management:

- Improved system throughput for all CICS® and IMS™ VSAM data sets is made possible by VSAM's exploitation of the multiple concurrent I/O capability provided by the PAV/MA feature of IBM Enterprise Server.
- VSAM Hiperbatch™ users can expect to obtain significant throughput improvement.
- Customers can now change the expiration date of an existing SMS managed non-VSAM data set using the JCL EXPDT or RETPD specification when the data set is opened for output. This feature gives customers more flexibility in managing their system-managed storage environment.
- DFSMSrmm™ provides new options for efficient selection of tape rack slots during storage location management. For example, one of the options enables DFSMSrmm to reassign slot numbers for volumes that

have not yet confirmed their move to a storage location. The combination of these enhanced management options may reduce the total number of slots required at storage locations.

- A new report generator function has been added to the DFSMSrmm ISPF dialog, and provides easily built reporting definitions and sharing of existing report definitions. The DFSMSrmm report extract file is also enhanced, making it possible for customers to generate the file at any time.
- DFSMSrmm now supports VSAM extended addressability. This enables customers to use VSAM functions and use a DFSMSrmm CDS that can grow above 4 GB.
- You can now define DFSMSrmm storage locations for use as home locations. This enables customers to have a location name for each non-system managed library and to better manage non-library resident volumes.

In addition, several enhancements improve catalog problem determination, serviceability, and operation.

- The MODIFY command is enhanced to allow the performance statistics to be reset. The statistics show the beginning date and timestamp values for the monitoring interval. The MODIFY DUMPON command allows the return, reason, and count values to be specified in 1 to 3 bytes.
- Problem determination is enhanced as follows. You can now have the system include data in the catalog address space in user address space dumps if the catalog address space has active catalog requests on behalf of the user address space. This requires appropriate CHNGDUMP command or SDUMPX parameters.
- DFSMSdfp™ will now enforce the data set naming rules equivalent to those enforced by JCL to catalog data sets. These rules were previously applied only for SMS managed data sets. This avoids problems in maintaining catalogs containing invalid data set names. The default rule checking can only be bypassed with the MODIFY command.

For additional information about data access and storage management, visit:

<http://www.storage.ibm.com/software/sms/index.html>

z/OS Network File System (NFS) Enhancements: z/OS NFS provides a flexible option for exchange of data between z/OS systems or between z/OS and other platforms (AIX®, NT) that support the NFS protocols. It supports HFS, zFS, and conventional data formats. z/OS NFS now supports native ASCII environments and file tagging for zFS and HFS files. This support includes single-byte data translation for zFS and HFS files using Unicode Services. In addition, multiple NFS servers will now be allowed to run on one S/390® server. All of these enhancements serve to provide more flexibility and increased throughput. The enhancements are also available on OS/390 V2R10 and on earlier releases of z/OS with APAR OW49104 and APAR OW48013.

For more detailed information, visit:

<http://www.ibm.com/servers/eserver/zseries/zos/nfs/>

Page Data Set Protection: When two systems accidentally use the same physical page data set, it is difficult to detect and diagnose. It causes integrity and/or system failures. Page data set protection can prevent two systems from accidentally using the same physical data

set. Using a two-tier mechanism, this support will prevent the same data set from being used when possible, and where not possible, it will protect the integrity of the system by causing system termination when it is detected. Full detection requires that the support be installed on all systems.

Wizards and Other Tools: New and updated Web-based wizards simplify your planning and configuration needs by exploiting recommended values and by providing customized checklists and outputs for you to use. To try out the z/OS wizards, visit:

<http://www.ibm.com/eserver/zseries/zos/wizards/>

Important Web Sites

- z/OS Web site:
<http://www.ibm.com/servers/eserver/zseries/zos/>
- General Q & A:
<http://www.ibm.com/servers/eserver/zseries/faq/>

Accessibility by People with Disabilities

The following features support use by people with disabilities:

- Operation by keyboard alone
- Optional font enlargement and high-contrast display settings
- Screen readers and screen magnifiers tested for use by people with visual impairment

Product Positioning

z/OS is the next generation of the OS/390 operating system. Together with a zSeries server, it offers 64-bit addressing and IRD. Customers can receive optimal processing capabilities when running z/OS on a zSeries server. However, z/OS does not require a zSeries server, nor does a zSeries server require that you run z/OS.

Customers are encouraged to implement goal mode before installing z/OS V1R3, rather than making both changes concurrently.

Statement of Direction

IBM plans to take the following actions in the future.

- IBM is developing Enterprise Identity Mapping (EIM), a new eLiza-driven technology that is intended to be available on a future release of z/OS and will address the challenge of multiple heterogeneous security registries existing in and between enterprises.
- In a future release, the OS/390 V2R10 C/C++ compiler is planned to be removed from the C/C++ feature leaving only the ISO C/C++ compiler that is provided with z/OS.
- The application development support (that is, the headers, source, sidedecks, objects, and samples from the Application Support Class and Collection Class libraries) is planned to be withdrawn from the C/C++ Open Class™ Library (IOC) starting with z/OS V1R4. Runtime support for IOC is planned to be removed from the C/C++ feature in a future release.

Refer to the corresponding **Statement of Direction** section for more detailed information.

These statements represent current intentions of IBM. IBM development plans are subject to change or withdrawal without further notice. Any reliance on this Statement of Direction is at the relying party's sole risk and will not create any liability or obligation for IBM.

Hardware and Software Support Services

SmoothStart™ /Installation Services

SmoothStart Services, on-site implementation and training startup service, are designed to accelerate your productive use of your IBM solution. The service is provided by IBM Global Services or your IBM Business Partner at an additional cost. For additional information, refer to Services Announcement 697-004, dated March 25, 2000, or contact your IBM representative and ask for SmoothStart Services for z/OS.

Reference Information

- Software Announcement 200-352, dated October 3, 2000
- Software Announcement 201-044, dated February 27, 2001
- Software Announcement 200-354, dated October 3, 2000
- Software Announcement 201-072, dated March 27, 2001
- Software Announcement 201-258, dated September 11, 2001
- Software Announcement 201-257, dated September 11, 2001
- Software Announcement 201-248, dated September 11, 2001
- Software Announcement 201-342, dated November 27, 2001
- Software Announcement 202-032, dated February 19, 2002
- Software Announcement 202-036, dated February 19, 2002
- Hardware Announcement 102-052, dated February 19, 2002

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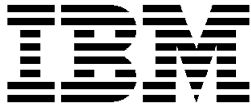
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IBM US Announcement Supplemental Information

February 19, 2002

Preview: z/OS™ V1R4

Previews provide insight into IBM plans and direction. Availability, prices, ordering information, and terms and conditions will be provided when the product is announced.*

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e-business Enabling

Security for Your e-business: The PKI Services component of the Security Server is updated to include the following enhancements:

- Use of the 4758 Cryptographic Coprocessor to generate private keys
- Sysplex enablement of PKI Services
- E-mail notification for completed certificate requests and expiration warnings
- Support MAIL, STREET, and POSTALCODE distinguished name qualifiers
- Support for PKCS#7 certificate chains

Networking for Large-Scale e-business: Internet Protocol Version 6 (IPv6) is the base technology of the next generation Internet. IPv6 is an evolution of the current Internet Protocol Version 4 (IPv4) and addresses many of the shortcomings of IPv4 — in particular, the very limited number of IPv4 addresses left for use. With IPv6, there is practically an unlimited number of IP addresses available.

z/OS IPv6 support will be added so it coexists with IPv4 functions; all existing IPv4 functions are retained. IPv4 interfaces can coexist with IPv6 interfaces on a z/OS TCP/IP host. z/OS applications that have been enabled for IPv6 communication will communicate in a seamless manner over both IPv4 and IPv6 interfaces. Applications that have not yet been enabled for IPv6 communication will continue to communicate over IPv4 interfaces. IPv6 network interfaces will be implemented through use of the IBM @server zSeries server along with the OSA-Express adapter configured in QDIO mode for Fast Ethernet or Gigabit Ethernet networks.

z/OS V1R4 will be the first release to support IPv6 functions, and IPv6 support will continue to be enhanced in releases following V1R4. z/OS V1R4 will include support for the basic IPv6 functions such as stateless autoconfiguration, static IPv6 routing tables, static Virtual IPv6 Addresses (VIPA), basic sockets API enhancements for IPv6, and selected applications enabled for IPv6.

Additional V1R4 e-business networking enhancements will include:

- A new Simple Network Protocol (SNTP) server. This server will allow computers in a network connected to z/OS to synchronize their clocks with the zSeries Sysplex Timer®.
- TN3270 support will add new capabilities in the areas of security, configuration simplification and flexibility. The support will include Transport Layer Security (TLS) in addition to the existing Secure Sockets Layer (SSL) support.
- A more consistent interface to various security-related exit points, including a capability for the exit points to exchange data with each other, will enhance FTP in the area of improved activity logging.
- In the area of globalization support, FTP will add codepage conversion capabilities for the new Chinese codepage known as GB18030.
- Through the implementation of enhanced addressing for lines and PUs, improvements in DIAL processing, and enhanced High Performance Routing (HPR) diagnostics, Enterprise Extender (EE) will be improved in the areas of usability, availability, scalability, and serviceability.
- Other usability and serviceability enhancements in V1R4 such as improvements to VARY, ACT, UPDATE, SDUMP, and CSALIMIT processing will benefit SNA workloads.

Application Flexibility

Distributed File Service Support: The Distributed File Service z/OS V1R4 support will include both SMB and zFS enhancements.

The SMB enhancements will include:

- Additional workstation domain userid to MVS™ user id mapping options
and
- Reduction of system event notification overhead.

zFS enhancements will include:

- Improvements to the file system configuration support
- Additional administration capabilities
- Performance enhancements

Ease-of-Use through Innovative Technology

UNIX® Security Management Usability Enhancements: IBM will continue to provide more flexibility in implementing UNIX on z/OS with the following enhancements:

This announcement is provided for your information only. For additional information, contact your IBM representative, call 800-IBM-4YOU, or visit the IBM home page at: <http://www.ibm.com>.

- Administrators will have the ability to automatically assign an unused UID/GID value to a user/group.
- A system-wide setting prevents the assignment of a UID or GID value which is already in use. With the proper authorization, it will be possible for assignment of a shared UID/GID.
- The SEARCH command is enhanced to allow an administrator to determine the set of users/groups which are assigned a UID/GID.
- Administrators can optionally assign a group owner of a new HFS file from the effective GID of the creating process.

These functions simplify UNIX administration on z/OS and provide options that are consistent with other UNIX platforms.

Parallel Sysplex® Support: z/OS V1R4 will provide the ability for sysplex-wide dynamic VIPAs for TCP/IP connections to have the same single IP address appearance for application instances initiating outbound connections within a sysplex as Sysplex Distributor provides for inbound connections. This capability simplifies IP address and workload management, improves security, and allows greater scalability and flexibility.

msys for Setup Support: The value of msys for Setup is extended in z/OS V1R4 by enhancing the msys for Setup framework and providing additional exploitation.

Some framework highlights are:

- Multiple User Support allows more than one user at a time to work with msys for Setup on the same configuration.
- The msys for Setup user will be informed about job progress, which is very helpful especially during long jobs.
- Many ease-of-use enhancements to the msys for Setup workplace will make working with msys for Setup easier and more intuitive.
- msys for Setup will provide messages, panels, and help text translated into Japanese.

In addition to these framework highlights, the LDAP plug-in will provide the ability to configure multiple LDAP servers. The plug-in will make all the necessary configuration updates to create usable LDAP servers. Also, configuration parameters (in slapd.conf, DSNAOINI, and slapd.envvars) will be discovered automatically for servers which are established.

Statement of Direction

IBM plans to take the following actions in the future.

- IBM is developing new eLiza-driven technology that will help address the challenge of multiple heterogeneous security registries existing in and between enterprises. By managing the relationship between identities that are identified within multiple applications, platforms, and middle-ware, EIM services will make it possible for an application to use one registry for user authentication while using a different registry to associate users with resource access control rules. It is our intention to make EIM services available on a future release of z/OS.

- As of z/OS V1R2, the OS/390® V2R10 C/C++ compiler is shipped in addition to the strategic ISO C++ compiler that is also provided with z/OS. This serves as a migration aid to the newer ISO C++ compiler. In a future release, the OS/390 V2R10 C/C++ compiler is planned to be removed from the C/C++ feature leaving only the ISO C/C++ compiler.
- As of z/OS V1R2, the Application Support Class and Collection Class of the C/C++ IBM Open Class™ Library (IOC) were upgraded to be consistent with that shipped in VisualAge® C++ for AIX® V5.0. This was done to ease porting of applications from the AIX platform. Both the upgraded and previous levels of the IOC are shipped in z/OS V1R2 and z/OS V1R3. Starting with z/OS V1R4, the application development support (that is, the headers, source, sidedecks, objects, and samples from the Application Support Class and Collection Class libraries) is planned to be withdrawn from both levels of the IOC. Runtime support for IOC is planned to be removed from the C/C++ feature in a future release. For additional information, the IBM Open Class Library Transition Guide is available at:

<http://www.ibm.com/software/ad/c390/czos/czosdocs.html>

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z/OS V1R3 Product Content

z/OS is composed of base elements and optional features. Optional features are priced and unpriced. To learn more about these elements and features, refer to *z/OS and z/OS.e Planning for Installation (GA22-7504)*, which is available by visiting:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/find_books.html

Replacing Base Elements: You have the ability to replace a z/OS base function with a commercially available product that provides a similar function. Contact an IBM representative for qualification and pricing information. All z/OS integrated testing results and performance claims are voided with such replacement.

Export Considerations: The following z/OS functions have export considerations.

- **Base Elements**
 - Communications Server — SNA/APPN® Services (Includes VTAM®) (Limited DES)
 - Communications Server — TCP/IP Services (includes TCP/IP for MVS) (Firewall CDMF DES 40-bit, SNMPv3 DES 56-bit, IP Sec DES 56-bit)
 - Cryptographic Services — Open Cryptographic Services Facility (RC2/RC4/RC5 40 to 56-bit, DES 56-bit)
 - Cryptographic Services — System SSL (RC2/RC4, DES through 56-bit)
 - DCE Base Services (OSF DCE level 1.1) (Limited DES)

- Distributed File Service (DFS™/SMB/zFS) (DFS support at OSF DCE level 1.2) (DES 56-bit)
- Language Environment® (Limited DES)

• **Optional Features**

- Communications Server Security Level 3 (TDES)
- IBM HTTP Server NA Secure (uses System SSL)
- Security Server Network Authentication Service Level 3 (TDES)
- Open Cryptographic Services Facility Security Level 3 (TDES, DES, RC2/RC4/RC5)
- Security Server — DCE Security Server at OSF DCE Level 1.2.2 (Limited DES)
- Security Server — Firewall Technologies (DES)
- Security Server — LDAP Server (uses System SSL)
- Security Server — Network Authentication Service (DES)
- Security Server — PKI Services (uses RACF®, OCSF and ICSF)
- Security Server — RACF (Limited DES and CDM, RC2 40-bit)
- System SSL Security Level 3 (RC2/RC4,TDES)

Enabling Optional Priced Features: z/OS optionally priced features use a z/OS product registration service, together with product policy statements to determine whether or not the z/OS priced feature has been ordered and should run. Optionally priced features that are ordered concurrently with z/OS will be shipped by IBM together with policy statements in PARMLIB that enable the ordered priced features. z/OS priced features which have not been ordered will be shipped with z/OS, but with policy statements that disable the unordered features. If the customer subsequently enables any of the optional priced features, those features also become subject to the payment terms of the customer's existing z/OS license as described in the *z/OS Licensed Program Specifications* (GA22-7503). Customers must notify IBM when they enable an optional feature that was shipped disabled. A detailed description of the enablement support is available in the *z/OS and z/OS.e Planning for Installation* (GA22-7504).

Notable Changes in z/OS V1R3

- WLM compatibility mode is no longer supported.
- The KEYRANGE specification on the IDCAMS DEFINE and IMPORT commands is now ignored for any data sets created with z/OS V1R3. Existing KEYRANGE data sets will continue to work without change.

For additional information, refer to System Center Flash 10072. Select **Flashes** and search on **Flash10072** on the following Web site:

<http://www.ibm.com/support/techdocs/>

- LANRES is no longer supported. For information on migration alternatives, visit:

<http://www.ibm.com/servers/eserver/zseries/library/whitepapers/gm130035.html>

Notable Changes in z/OS V1R4

Planned z/OS V1R4 changes will be made to the following functions:

- Application development support will be withdrawn for the IBM Open Class Library starting with z/OS V1R4. The headers source, and samples for the Application Support Class and Collection Class libraries of the IBM Open Class Library will be withdrawn in that release.

Program Services

Central service for suspected defects in z/OS code is provided by the IBM Support Center within the customer's geography. On-site (local) support, although available in many geographies, is provided as part of IBM's portfolio of fee-based services.

Service Policy

IBM plans to provide service support for each release of z/OS for three years following its general availability date. IBM, at its discretion, may choose to leave a release supported for more than three years.

At least twelve months' written notice prior to the withdrawal of service for a version or release will be given for z/OS.

Existing coexistence and migration rules continue to apply and should be taken into account in planning future migrations. Refer to **General Coexistence, Release Migrations, and Fallback** for additional information.

Recommended Service Upgrade

IBM has redefined the Recommended Service Upgrade (RSU) for the z/OS platform based on additional Consolidated Service Testing (CST). Testing of service for the following subsystems and products is now being done in a customer-like sysplex environment, using industry representative workloads.

- z/OS
- OS/390
- IMS™
- DB2®
- CICS®
- MQSeries®

Service will be tested in this consolidated service test environment on a quarterly basis. The resulting RSU is the new recommended level of service. Additionally, testing will be done on Hipers, PE Fixes, and other fixes as warranted, on a monthly basis. These monthly RSUs are recommended as we have found a correlation between availability and maintenance currency. As always, customers should review Hipers and PE fixes on a regular basis and install those that apply to their environment.

For more information about CST, ordering and installing the redefined recommended service, refer to:

<http://www.ibm.com/servers/eserver/zseries/zos/servicetst>

Notes

- These service recommendations are based on IBM's test environment and workloads. Customer environments and workloads are likely to differ. Therefore, these service recommendations are provided without warranties of any kind. Each

customer must consider their environment, maintenance philosophy, and production needs in making the final decision as to what maintenance to apply.

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Education Support

The following worldwide courses are available for classroom delivery:

- Introduction to z/OS and OS/390 Environment (ES05)
- Fundamental System Skills for z/OS and OS/390 (ES10)
- z/OS and OS/390 Facilities (ES15)
- z/Architecture for zSeries (OZ09)
- Migration to Parallel Sysplex for zSeries (OZ40)
- Using Infoprint® Server for z/OS (PR74)
- z/OS Update (OZ30)

In the U.S. and Canada call 800-IBM-TEACH (426-8322) to enroll in one or more of these classes.

Technical Information

Hardware Requirements

z/OS V1R3 runs on the following IBM servers:

- z900 or comparable server
- z800 or comparable server
- S/390 Parallel Enterprise Servers — G5 and G6 models or comparable server
- All models of the Multiprise® 3000 Enterprise Server or comparable server

z/OS V1R4 and the release expected in first half of 2003 are planned to run on the same IBM servers as listed for z/OS V1R3.

Software Requirements: The z/OS base is an IPL-able system. There are no software prerequisites in order to IPL. Specific functions may require additional products not included in z/OS base, or in the optional features of z/OS. Refer to *z/OS and z/OS.e Planning for Installation* (GA22-7504) for a listing of specific software requirements. It is available on the Web at:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/find_books.html

General Coexistence, Release Migrations, and Fallback

z/OS continues to give you compatibility and flexibility as you migrate systems in a multisystem configuration by allowing several releases of OS/390 and z/OS to coexist. This includes non-Parallel Sysplex and Parallel Sysplex multisystem configurations.

Coexistence allows systems within a multisystem configuration to be upgraded to a new release level of the operating system one system at a time. This is contingent on the fact that the release you are migrating to can coexist with the lowest release running in your multisystem configuration.

As previously described in Software Announcement 200-352, dated October 3, 2000, OS/390 V2R9, V2R10, z/OS V1R1, and z/OS V1R2 are coexistence-supported

with z/OS V1R3. This takes into account the special combined treatment of OS/390 V2R10 and z/OS V1R1.

As also described in Software Announcement 200-145, dated May 16, 2000, IBM has converged on a consistent migration and coexistence policy. This consistent migration and coexistence policy is based on the current coexistence policy. Migration forward as well as backward should be made within the same releases supported by the coexistence policy. Four releases is the general migration and coexistence policy that should be assumed, except where special provisions have been provided.

This consistent coexistence, migration and fallback policy applies to release migrations for:

- Single system configurations
- Individual systems within a multisystem configuration
- Cases where a simultaneous IPL is used to migrate all systems in a multisystem configuration at the same time

Since each release of z/OS can normally be ordered for only a six month window, it is very important that you order the required z/OS release you need for migration and coexistence while still available.

For additional information on coexistence and release migration information, refer to *z/OS and z/OS.e Planning for Installation* (GA22-7504) at:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/find_books.html

For migrations inside the IBM migration and coexistence policy, IBM Global Services (IGS) has fee-based offerings which provide a PTF on-demand service for toleration and coexistence maintenance based upon a customer's SMP/E Consolidated Software Inventory (CSI). With these offerings, customers specify which release of z/OS, z/OS.e, OS/390, or to subsystems (DB2, CICS, IMS, NCP), or hardware (for example, 2064) which they are migrating, and all configured toleration/coexistence maintenance for their current system (as specified by their CSI), will be delivered to them as a customized package in electronic or physical format.

This is provided through the S/390® SoftwareXcel offering, via the Service Request and Delivery (SRD) function.

IGS also provides hands-on fee-based services to assess whether a migration outside the migration and coexistence policy might be possible. For more information on the migration services that IGS provides for both inside and outside the migration and coexistence policy, contact your local IBM sales specialist.

JES Coexistence, Release Migrations, and Fallback

It is recommended you migrate to the JES2 or JES3 that comes comprehensively-tested with z/OS V1R3 at the same time you migrate to the rest of z/OS V1R3, or as soon as possible thereafter. In this way, you benefit directly from the new function provided by the most current JES and enable other elements and features to benefit from this level.

Because such a migration is not always practical, certain prior JES levels are supported. The JES levels supported by a given z/OS release (that is, the allowable JES-BCP combinations) are the same as the JES levels that may coexist in the same multi-access spool (MAS) or multisystem complex with the JES delivered in that z/OS

release. That is, the JES levels that may run on the latest z/OS release (when run on either a single system or on individual systems participating in a multisystem configuration) are the four most recent JES levels.

For additional information on JES coexistence and release migration information, including the allowable JES-BCP combinations and the JES coexistence levels that are supported, refer to *z/OS and z/OS.e Planning for Installation* (GA22-7504) at:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/find_books.html

Installation Enhancements

ServerPac and CBPDO support delivery on 3590 media, including support for CBPDO service orders on 3590.

Performance Considerations: Additional information on z/OS V1R3 performance will be available at general availability. You should consult your marketing representative at or after general availability.

User Group Requirements: z/OS V1R3 satisfies or partially satisfies requirements from IBM customers and one or more of the worldwide user group communities. Information on the specific User Group Requirements (numbers and descriptions) can be found at:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/user_group_reqs.html

Planning Information

Direct Customer Support: Direct customer support is provided by IBM Operational Support Services —Support Line. This fee service can enhance your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services —Support Line will help answer questions pertaining to usage, how to, and suspected software defects for eligible products.

Installation and technical support is provided by IBM Global Services. For more information on services, call 800-IBM-4YOU (426-4968).

Packaging: When you order z/OS, IBM recommends that you also order all the unpriced optional (**encryption controlled**) features that you may need in the future. That is because these features may not still be orderable later when you decide you need them. For example, to obtain encryption support (security) for IBM HTTP Server for z/OS, you **must** specify the security feature **IBM HTTP Server North America Secure**.

For specific details on feature numbers, refer to the **Ordering Information** section.

System Integrity

IBM will accept APARs where the installation of z/OS introduces an exposure to system integrity.

Security, Auditability, and Control

Data security and auditability in the z/OS environment are enhanced by the functions available in the optional Security Server for z/OS feature. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Customer Financing

IBM Global Financing offers attractive financing to credit-qualified commercial and government customers and Business Partners in more than 40 countries. IBM Global Financing is provided by the IBM Credit Corporation in the United States. Offerings, rates, terms, and availability may vary by country. Contact your local IBM Global Financing organization. Country organizations are listed on the Web at:

<http://www.financing.ibm.com>

Ordering Information

For ordering and pricing information previously announced for z/OS V1, refer to Software Announcement 200-352, dated October 3, 2000.

Additional pricing information is found in the **Prices** section that follows the **Ordering Information** section. Pricing information can also be found in Software Announcement 202-036, dated February 19, 2002.

Key Dates

- **March 5, 2002:** Recommended date for submitting z/OS V1R2 orders for ServerPac, SystemPac®, CBPDO. This date will allow for adequate order processing time.
- **March 14, 2002:** Last date for ordering z/OS V1R2 ServerPac, SystemPac, CBPDO.
- **March 15, 2002:** First date for ordering z/OS V1R3 ServerPac, SystemPac, CBPDO using CFSW configuration support, or ShopzSeries, the Internet ordering tool. Note that most z/OS media (executable code) is shipped only through z/OS Customized Offerings (ServerPac, SystemPac, and CBPDO).
- **March 29, 2002:** z/OS V1R3 general availability.
- **June 25, 2002:** Last date for ordering the z/OS V1R1 Upgrade Package for OS/390 V2R10, offered through CBPDO.
- **December 17, 2002:** Last date for ordering OS/390 V2R10 (5647-A01).
- **December 17, 2002:** Last date for Web download of the OS/390 V2R8, R9, and R10, and z/OS V1R1 support for Unicode.

Typically, when one z/OS release becomes orderable in ServerPac, SystemPac, or CBPDO, the previous release is no longer orderable. Since each release of z/OS can normally be ordered for only a six-month window, it is very important that you order the required z/OS release you need for migration and coexistence while still available.

For additional information, refer to *z/OS and z/OS.e Planning for Installation* (GA22-7504), Chapter 5, "Ensuring coexistence and fallback," at:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/find_books.html

Order z/OS Through the Internet

ShopzSeries (formerly SHOPS390) provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied).

ShopzSeries is available in the U.S. and several countries in Europe. For more details and availability, visit the ShopzSeries Web site at:

<http://www.software.ibm.com/shopzseries>

Current Licensees of OS/390 V2R10

Migration to z/OS V1R1: OS/390 V2R10 customers can migrate to z/OS V1R1 by:

- Obtaining a license for z/OS V1R1 (5694-A01) with the same feature list contained in the initial order for OS/390 V2R10 (5647-A01).
- Ordering the z/OS V1R1-OS/390 R10 Upgrade feature through CBPDO.

The z/OS V1R1 licensing/pricing features can be ordered to migrate OS/390 V2R10 customers who order the z/OS V1R1 Upgrade Package for OS/390 V2R10. This upgrade package is available only through CBPDO format.

There are important service considerations when ordering and installing the z/OS V1R1 Upgrade Package for OS/390 V2R10. It is highly recommended that you upgrade service for the entire OS/390 V2R10 system at the time you install the upgrade package. This will ensure that you are at the minimum service level that was integration tested by IBM. You should choose the CBPDO Selective service option when ordering the upgrade package. This will provide you with service for OS/390 V2R10, the upgrade package, and other products in your ordering profile.

OS/390 V2R10 with the z/OS V1R1 Upgrade Package for OS/390 V2R10 gives you an additional migration option when migrating to z/OS. For considerations on which migration path might be optimal, refer to *z/OS and z/OS.e Planning for Installation* (GA22-7504), Chapter 6, "Preparing for Migration," at:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/find_books.html

Migration to z/OS V1R3: OS/390 V2R10 customers can migrate to z/OS V1R3 by ordering the release through the Customized Offerings (ServerPac, SystemPac, CBPDO) as done in the past.

There is no upgrade package offered to migrate to z/OS V1R3.

For more details, refer to the **New Licensees** section under the **Ordering Information** section.

Current Licensees of z/OS V1

z/OS V1 customers can migrate to z/OS V1R3 by ordering the release through the Customized Offerings (ServerPac, SystemPac, CBPDO) as done in the past.

There is no upgrade package offered to migrate to z/OS V1R3.

For more details, refer to the **New Licensees** section under the **Ordering Information** section.

New Licensees

New Licensees of z/OS V1R3: The z/OS product ships its executable code via Customized Offerings (CBPDO, ServerPac, SystemPac). Non-customized items (for example, CD-ROMs, Memorandums, hardcopy publications) will continue to be shipped via the stand-alone product.

For all z/OS orders, the current customer install base of the Customized Offering 5751-CSx (not the install base of 5694-A01 or 5647-A01) must be retained to determine the z/OS version/release level most recently ordered.

Production of z/OS V1R3 orders will begin on the general availability date, **March 29, 2002**. Ship dates for orders will be based on order sequence, Customized Offering selected, production capability, and customer-requested arrival date. Due to the amount of customization of ServerPac orders, shipments will begin approximately **two weeks after** general availability. Due to the amount of additional customization of SystemPac orders, shipments will begin approximately four weeks after order and data input verification. For CBPDO orders, shipments will begin one week after general availability. In all cases, no delivery commitments are to be made to the customer until confirmed arrival dates are in ESW/AAS.

Basic License

To order a basic license, specify the z/OS V1R3 program number 5694-A01, and feature number 9001 for asset registration. Proceed to select the feature numbers listed, which are required, and then select any optional feature numbers.

Single Version Charging: To elect single version charging, the customer must notify and identify to IBM the prior program and replacement program and the designated machine the programs are operating on.

Basic Machine-Readable Material

The Base feature (feature number 6189) is added to z/OS V1R3 marketing, and can be ordered effective **February 19, 2002**.

Notes

- The billing features and pricing information for the above feature descriptions are provided in the **Prices** section, in Software Announcement 200-352, dated October 3, 2000, and Software Announcement 202-036, dated February 19, 2002.
- This product ships its executable code via Customized Offerings (CBPDO, ServerPac, SystemPac). Non-customized items (for example, CD-ROMs, memorandums, hardcopy publications) will continue to be shipped via the stand-alone product.
- The media type for the above items is chosen during customized offering ordering procedure.
- LANRES diskettes are no longer offered in the basic package.

Basic Publications

A memo, program directory, and one copy of the following publications are supplied automatically with the basic machine-readable material:

Basic/Unlicensed Hardcopy Publications

Title	Order Number
z/OS V1R3 Hot Topics Newsletter	GA22-7501
z/OS and z/OS.e V1R3 Planning for Installation	GA22-7504
z/OS V1R3 Planning for Workload License Charges	SA22-7506

Basic/Unlicensed Softcopy Publications

Title	Order Number
z/OS V1R3 Collection	SK3T-4269

For a fee, you can order additional copies of these books or any other z/OS V1R3 hardcopy book or softcopy collection using the IBM Publications Center on the Web at:

<http://www.ibm.com/shop/publications/order>

For customers in 23 countries the IBM Publications Center now offers the option to order hardcopy publications by customer number. Check to see if this option is available in your country.

For other publications ordering options, visit:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/order_books.html

z/OS Version 1 Release 3 Collection (BookManager® and PDF): The z/OS V1R3 Collection contains the z/OS V1R3 product books in both BookManager and PDF softcopy formats on CD-ROM. If this collection is refreshed three months after general availability, an updated collection will be automatically sent to z/OS V1R3 licensees.

By general availability, all of the z/OS V1R3 unlicensed books will be available at:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/order_books.html

If you want to upload BookManager softcopy and create softcopy repositories, the SoftCopy Librarian is our strategic tool for uploading and managing BookManager files on a z/OS or OS/390 host or server, and on LANs and workstations. SoftCopy Librarian, a free program that is provided on the softcopy tools disc of the CD-ROM collections, outperforms the previous Softcopy Receiver Tool for uploading books and also provides you with management functions for your bookshelves and book files. Since the Softcopy Receiver Tool is no longer supported, you should migrate to the SoftCopy Librarian now.

SoftCopy Librarian runs on Windows® 95, or later, and Windows NT® 4.0, or later. The latest versions of the SoftCopy Librarian can be downloaded from the following site:

<ftp://ftp.software.ibm.com/ps/products/ibmreader/tools/>

Optional Machine-Readable Material

Optional Unpriced Features: The following optional features are added to z/OS V1R3 marketing, and they can be ordered effective **February 19, 2002**.

Feature Description	Feature Number
Communications Server Security Level 3	6221
Communications Server Network Print Facility	6222
IBM HTTP Server NA Secure	6158
OCSF Security Level 3	6168
System SSL Security Level 3	6187
Security Server Network Authentication Service Level 3	6223

Notes

1. This product ships its executable code via Customized Offerings (ServerPac, SystemPac, CBPDO). The media type is chosen during the customized offering ordering procedure.
2. All the above features can be exported outside the U.S.
3. These features should be ordered during this release cycle, since they are not automatically included in all orders, due to need for export regulation tracking.
4. If ordering IBM HTTP Server NA Secure, System SSL Security Level 3 should also be ordered to obtain additional security function over what is provided in the Base.
5. The Kerberos function is obtainable by ordering Security Server Network Authentication Service Level 3.
6. The above feature descriptions are offered at no additional charge.
7. The feature descriptions listed above are the same offered in z/OS V1R2.

Optional Priced Features: The following optional features are added to z/OS V1R3 marketing, and they can be ordered effective **February 19, 2002**.

Feature Description	Feature Number
BDT FTF	6218
BDT SNA NJE	6167
BookManager Build	6206
C/C++ with Debug	6215
C/C++ without Debug	6181
DFSMS dss,hsm	6217
DFSMS rmm	6212
DFSMS dss	6214
DFSORT™	6179
GDDM®-PGF	6171
GDDM-REXX	6186
HCM	6188
HLASM Toolkit	6213
Infoprint Server	6159
JES3	6162
RMF™	6176
SDSF	6169
Security Server	6219

Notes

1. The billing features and pricing information for the above feature descriptions are described in the **Prices** section and also in Software Announcement 200-352, dated October 3, 2000, and Software Announcement 202-036, dated February 19, 2002.
2. This product ships its executable code via Customized Offerings (ServerPac, SystemPac, CBPDO). The media type is chosen during the customized offering ordering procedure.
3. If you subsequently enable any of the optional priced features, those features also become subject to the payment terms of your existing z/OS license as described in *z/OS Licensed Program Specifications (GA22-7503)*. You must notify IBM when you enable an optional feature that was shipped disabled from IBM.
4. One or both of the BDT optional features (file-to-file or SNA NJE) must be ordered and installed in order to use the BDT function shipped with the base.
5. The following components of priced optional features are now licensed as part of the z/OS base and can be used without enabling the optional feature.
 - C/C++ IBM Open Class Library
 - LDAP Server component of Security Server
 - Network Authentication Service component of Security Server
 - Firewall Technologies (IKE and GUI only) component of Security Server
 - PKI Services component of the Security Server
 - Open Cryptographic Enhanced Plug-ins (OCEP) component of the Security Server
6. DFSMSdss™ cannot be ordered with DFSMSdsshsm and vice versa.
7. C/C++ optional features are mutually exclusive; only one can be ordered.
8. The feature descriptions listed above are the same offered in z/OS V1R2.

Optional Unpriced National Language Version (NLV) Features

The z/OS V1R3 NLV support features will become generally available on the same date the release code becomes available.

z/OS V1R3 provides support in the languages listed below. However, not all elements within z/OS V1R3 are translated into each language. Refer to *z/OS and z/OS.e Version 1 Release 3 Planning for Installation (GA22-7504)* for information on which elements are translated into which languages, by visiting:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/find_books.html

The following optional features are added to z/OS V1R3 marketing, and they can be ordered effective **February 19, 2002**.

The NLV features for z/OS V1R3 are:

NLV Features

Feature Description	Feature Number
Brazilian Portugese Base (PTB)	6190
Brazilian Portugese BookMgr Build	6211
Canadian French Base (FRC)	6191
Canadian French BookMgr Build	6207
Danish Base (DAN)	6202
Dutch Base (NLD)	6200
French Base (FRA)	6199
French BookMgr Build	6208
German Base (DEU)	6195
German BookMgr Build	6209
Italian Base (ITA)	6197
JPN Base	6203
JPN C++ With Debug	6216
JPN C++ Without Debug	6182
JPN DFSORT	6180
JPN Infoprint Server	6161
JPN RMF	6177
JPN SDSF	6170
JPN Security Server	6220
Upper Case English Base (ENP)	6193
Korean Base (KOR)	6192
Norwegian Base (NOR)	6194
Spanish Base (ESP)	6201
Spanish BookMgr Build	6210
Swedish Base (SVE)	6204
Swiss German Base (DES)	6205
Simplified Chinese Base (CHS)	6196
Traditional Chinese Base (CHT)	6198

Notes

- The above feature descriptions are offered at no additional charge.
- This product ships its executable code via Customized Offerings (ServerPac, SystemPac, CBPDO).
- The media type is chosen during the customized offering ordering procedure.
- The feature descriptions listed above are the same offered in z/OS V1R2.

Optional Unpriced Source Media

The following optional features are added to z/OS V1R3 marketing, and can be ordered effective **February 19, 2002**.

Feature Description	Feature Numbers	
	3480 Cartridge	4-mm DAT
Source Base (1)	6163	6164
Source Base JPN (2)	6165	6166
Source Security Server — RACF (3)	6184	6185

Notes

- Content for source media is as follows:
 1. Base source code contains source for elements:
 - BCP
 - DFSMS
 - BDT base
 - BDT SNA-NJE
 - MICR/OCR
 2. Base source code contains source for BCP JPN element.
 3. Security Server source code is for RACF.
- Effective with z/OS V1R2, unpriced source media is no longer offered in 6250 media format.
- The above feature descriptions are offered at no additional charge.
- The feature descriptions listed above are the same offered in z/OS V1R2.

Optional Unlicensed Publications

Optional Unlicensed Softcopy Publications: The following optional features are ADDED to z/OS V1R3 marketing, and can be ordered effective **February 19, 2002**.

Subscriptions to the following softcopy collections may be ordered for a fee by specifying the one-time charge feature numbers listed below:

Title	Order Number	Feature Number
z/OS Software Products Collection	SK3T-4270	8007
IBM e(logo)server zSeries Redbooks™ Collection	SK3T-7876	8009
z/OS Security Server RACF Collection	SK3T-4272	8008
z/OS Version 1 Release 3 and Software Products DVD Collection	SK3T-4271	8010

Notes

- The Redbooks collection is updated twice a year, concurrent with z/OS releases.
- The z/OS Security Server RACF Collection is updated twice a year, concurrent with z/OS releases, and is available two weeks after the release general availability to licensees of the z/OS Security Server optional feature. The update for z/OS V1R3 is available April 12, 2002.
- The feature descriptions listed above are the same offered in z/OS V1R2.
- When the above softcopy collections are ordered as features of z/OS V1R3, the special subscription price includes automatic shipment of all updates made while the product version can be ordered.

The *z/OS Software Products Collection* includes over 1,360 unlicensed online books for more than 205 z/OS software products and Parallel Sysplex, and a softcopy tools disc. This collection includes books for multiple releases of software products that run on z/OS. The books are provided in BookManager format and, when available, in PDF format as well.

The *IBM @server zSeries Redbooks Collection* contains IBM Redbooks, in PDF format, related to z/OS and other zSeries products. IBM Redbooks, which are produced by the International Technical Support Organization, include timely technical information based on realistic scenarios and are created by IBM experts, customers, and business partners from around the world.

The IBM Redbooks are also available for viewing or downloading on the following Web site:

<http://www.ibm.com/redbooks/>

To find Redbooks that apply to z/OS, enter z/OS in the search field at the top of the Web page.

The *z/OS Security Server RACF Collection* includes unlicensed softcopy books, in BookManager format, for numerous software product libraries that reference z/OS Security Server RACF. It also includes education course listings, Web sites to access sample code on the Internet, and Portable Document Format (PDF) files for the z/OS Security Server manuals, as well as softcopy tools. Using this collection, you have easy access to all the Security Server RACF-related information without handling individual sets of books and libraries on many CD-ROMs.

The *z/OS Version 1 Release 3 and Software Products DVD Collection* includes softcopy tools, libraries for z/OS V1R3 (the element and feature libraries), the libraries for multiple releases of z/OS software products, and selected IBM @server zSeries Redbooks. Both BookManager and PDF formats, when available, are included on this single DVD. This comprehensive z/OS collection is essentially the *z/OS Version 1 Release 3 Collection (SK3T-4269)* and the *z/OS Software Products Collection (SK3T-4270)* combined with selected IBM Redbooks from the *IBM @server zSeries Redbooks Collection (SK3T-7876)* and delivered on the higher density DVD technology.

Optional Licensed Publications: There are no optional licensed hardcopy or softcopy publications available for ordering by feature numbers, for inclusion in the product package shipment. However, z/OS licensed publications are offered in softcopy format for customers to order in addition to their product package.

Licensed users can obtain the licensed books for z/OS by purchasing the z/OS Licensed Product Library collection (LK3T-4307) using the normal IBM publications ordering methods. Users can also access the licensed books free of charge on the Internet using the IBM Resource Link™ Web site. Access to these books on IBM Resource Link requires a key code and an IBM Resource Link Web user ID and password. Your z/OS order includes a memo that contains the keycode. Information about ordering the licensed softcopy collection and accessing IBM Resource Link is provided on the following Web site:

http://www.ibm.com/servers/eserver/zseries/zos/bkserv/resource_link.html

zSeries Entry License Charge (zELC) Billing Features

The following billing features are added to z/OS V1, effective February 19, 2002:

	Feature Number							
z/OS V1	0A1	0B1	0C1	001	0A2	002	003	004
Base	1278	1279	1280	1281	1282	1283	1284	1285
BDT FTF	1314	1315	1316	1317	1318	1319	1320	1321
BDT SNA NJE	1331	1332	1333	1334	1335	1336	1337	1338
BookManager Build	1348	1349	1350	1351	1352	1353	1354	1355
C/C++ with debug	1365	1366	1367	1368	1369	1370	1371	1372
C/C++ without debug	1382	1383	1384	1385	1386	1387	1388	1389
DFSMS dss	1501	1502	1503	1504	1505	1506	1507	1508
DFSMS dss,hsm	1467	1468	1469	1470	1471	1472	1473	1474
DFSMS rmm	1484	1485	1486	1487	1488	1489	1490	1491
DFSORT	1518	1519	1520	1521	1522	1523	1524	1525
GDDM PGF	1535	1536	1537	1538	1539	1540	1541	1542
GDDM REXX	1552	1553	1554	1555	1556	1557	1558	1559
InfoPrint Server	1569	1570	1571	1572	1573	1574	1575	1576
JES3	1586	1587	1588	1589	1590	1591	1592	1593
RMF	1399	1400	1401	1402	1403	1404	1405	1406
SDSF	1416	1417	1418	1419	1420	1421	1422	1423
Security Server	1450	1451	1452	1453	1454	1455	1456	1457
SOMobjects(TM) ADE	1433	1434	1435	1436	1437	1438	1439	1440

Note: While SOMobjects ADE is no longer offered as of z/OS V1R2, the billing feature above is available to z/OS V1R1 customers having this feature.

z/OS V1R2 Features Withdrawn

The following z/OS V1R2 features are to be withdrawn from marketing effective March 14, 2002:

z/OS V1R2 Feature Description	z/OS V1R2 Feature Number
R2 Base	6119
R2 BDT FTF	6148
R2 BDT SNA NJE	6097
R2 BookManager Build	6136
R2 C/C++ with Debug	6145
R2 C/C++ without Debug	6112
R2 DFSMS dss,hsm	6147
R2 DFSMS rmm	6142
R2 DFSMS dss	6144
R2 DFSORT	6110
R2 GDDM-PGF	6101
R2 GDDM-REXX	6116
R2 HCM	6118
R2 HLASM Toolkit	6143
R2 Infoprint Server	6089
R2 JES3	6092
R2 RMF	6106
R2 SDSF	6099

z/OS V1R2 Feature Description

z/OS V1R2 Feature Description	z/OS V1R2 Feature Number
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R2 System SSL Security Level 3	6117
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R2 SK2T-2177 IBM Redbooks S/390 Collection	8005
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Terms and Conditions

The terms and conditions of z/OS V1R3 (5694-A01) are described in the **Prices** section, and also in Software Announcement 200-352, dated October 3, 2000, and Software Announcement 202-036, dated February 19, 2002.

zELC Applies: Yes. The Attachment for z/OS.e V1 and zSeries 800 Software License Charges (Z125-6587) and Exhibit for zSeries 800 Software License Charges (Z125-6588) apply.

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