



IBM 31-bit SDK for z/OS, Java 2 Technology Edition, V5 lets application developers use Java on z/OS

Overview

31-bit SDK for z/OS®, Java™ 2 Technology Edition, V5 delivers an SDK at the Java 2 technology level, designed to be compliant with the Sun SDK 5 APIs. With 31-bit SDK for z/OS®, Java 2 Technology Edition, V5 you can:

- Test and deploy Java applications in a 31-bit environment
- Continue the “write once, run anywhere” Java paradigm
- Use the System z9™ and zSeries® Application Assist Processors (zAAPs) available on z9-109, z990, and z890 servers
- Leverage traditional zSeries® benefits: scalability, reliability, availability, and serviceability

The program will be available from the IBM @server® zSeries Java Web site and on tape from IBM Software Delivery and Fulfillment (SDF).

For additional information about zSeries Java programs, visit

<http://www.ibm.com/servers/eserver/zseries/software/java/>

Key prerequisites

- Hardware: This program runs on the following System z9 and zSeries servers or equivalents:
 - z9-109
 - z990
 - z890
 - z900
 - z800
- Software: z/OS V1.6 (5694-A01) or z/OS.e V1.6 (5655-G52), or later

Planned availability dates

- November 30, 2005, via the zSeries Java Web site

<http://www.ibm.com/servers/eserver/zseries/software/java/>

- December 16, 2005, via SDF

At a glance

31-bit SDK for z/OS, Java 2 Technology Edition, V5:

- Delivers a comprehensive Java 2 SDK at the SDK 5 level for the z/OS platform
- Supports testing and deploying Java applications in a 31-bit environment

For ordering, contact:

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

800-IBM-CALL

Reference: LE001

Description

31-bit SDK for z/OS, Java 2 Technology Edition, V5 is a Java SDK that contains a re-engineered Java 2 virtual machine at the SDK 5 level and the IBM Just-in-Time (JIT) compiler. The program is a key building block for developing on demand applications. 31-bit SDK for z/OS, Java 2 Technology Edition, V5 is compliant with the Java SDK 5 compatibility test and is designed to deliver the stability, service, and scalability you expect from a zSeries program.

31-bit SDK for z/OS, Java 2 Technology Edition, V5 is designed to offer:

- Support for Java application programming in a 31-bit environment
- Java 2 APIs at the SDK 5 level
- Continuation of the “write once, run anywhere” Java paradigm
- Java Record I/O (JRIO)
- XML support
- System Authorization Facility (SAF) and cryptography support
- Use the System z9 and zSeries Application Assist Processors (zAAPs) available on z9-109, z990, and z890 servers
- Additional reliability, availability, and serviceability (RAS) enhancements

RAS

31-bit SDK for z/OS, Java 2 Technology Edition, V5 includes similar dump capability, tracing, and problem determination as in SDK for z/OS, Java 2 Technology Edition, V1.4 (5655-I56).

Product positioning

Java can be used for developing traditional zSeries commercial applications and also Internet and intranet applications that use standard interfaces.

31-bit SDK for z/OS, Java 2 Technology Edition, V5 may benefit application developers who want to take advantage of the Java APIs for z/OS, write or run applications across multiple platforms, or use Java to access zSeries data.

zSeries administrators can provide the SDK for their application developers and users. Building on the existing z/OS Java product, it is intended that companies may continue their deployment of Java while leveraging the benefits of zSeries quality, scalability, and service.

Reference information

For the most current information on 31-bit SDK for z/OS, Java 2 Technology Edition, V5, visit the zSeries Java Web site

<http://www.ibm.com/servers/eserver/zseries/software/java/>

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBM ID).

BP Attachment for Announcement Letter 205-300

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=205-300>

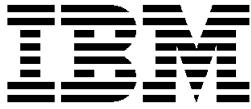
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Java is a trademark of Sun Microsystems, Inc.

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IBM US Announcement Supplemental Information

November 22, 2005

Offering Information

Product information is available via the Offering Information Web site

<http://www.ibm.com/common/ssi>

Publications

In addition to the product media, each order will be supplied with one copy of:

- IBM 31-bit SDK for z/OS®, Java™ 2 Technology Edition, V5 Program Directory (GI11-2857)
- IBM 31-bit SDK for z/OS, Java 2 Technology Edition, V5 LICR (GA76-0400)

For additional documentation, visit the Java zSeries® Web site

<http://www.ibm.com/servers/eserver/zseries/software/java/>

Technical information

Hardware requirements: 31-bit SDK for z/OS, Java 2 Technology Edition, V5 runs on the following IBM servers, or equivalents:

- IBM System z9™ 109
- zSeries z990 or z900
- zSeries z890 or z800

Software requirements: z/OS V1.6 (5694-A01) or z/OS.e V1.6 (5655-G52), or later is required.

Compatibility: 31-bit SDK for z/OS, Java 2 Technology Edition, V5 (5655-N98) has the same functions as SDK for z/OS, Java 2 Technology Edition (5655-I56), V1.4, with the exception of the persistent reusable function.

31-bit SDK for z/OS, Java 2 Technology Edition, V5 (5655-N98) and SDK for z/OS, Java 2 Technology Edition, V1.4 (5655-I56), 64-bit SDK for z/OS, Java 2 Technology Edition, V1.4 (5655-M30), and 64-bit SDK for z/OS, Java 2 Technology Edition, V5 (5655-N99) are independent products and can coexist on the same z/OS system.

Most Java applications executed on SDK for z/OS, Java 2 Technology Edition, V1.4 (5655-I56) are expected to run unchanged on 31-bit SDK for z/OS, Java 2 Technology Edition, V5, provided that they do not use deprecated Java 2 SDK 1.4 APIs. Additionally, in some cases, because of a small number of incompatibilities introduced industry wide between Java 2 SDK 1.4 and SDK 5 APIs, some applications may have to change.

31-bit SDK for z/OS, Java 2 Technology Edition, V5 can take advantage of enhanced z/OS linkage capabilities (XPLINK.) The z/OS operating system offers an XPLINK runtime environment for programs, including the Java Virtual Machine (JVM). This contrasts with the Java product, SDK for z/OS, Java 2 Technology Edition, V1.4 (5655-I56), where it is necessary to ensure that an XPLINK environment is in place when the JVM is launched.

IBMJSSE2 is the sole JSSE security provider. If the provider list includes references to the older IBMJSSE, the IBMJSSE2 introduced in the SDK1.4.2 products will be invoked. Note that the deprecated `com.ibm.net.ssl.*` apis will not be supported. Use of the deprecated APIs will require code modifications to use APIs supported by the IBMJSSE2 provider.

For details on incompatibilities, visit

<http://www.ibm.com/servers/eserver/zseries/software/java/>

Limitations: Input Method Framework (IMF) is not supported.

Performance considerations: Optimal performance is expected to be obtained with the most recent levels of the hardware and operating system.

For additional performance-related information, visit

<http://www.ibm.com/servers/eserver/zseries/software/java/>

Planning information

Packaging: You can download 31-bit SDK for z/OS, Java 2 Technology Edition, V5 from the zSeries Java Web site or order the program package.

31-bit SDK for z/OS, Java 2 Technology Edition, V5 is shipped with the following:

- Basic machine readable material
- Program Directory
- License Information

For additional documentation, visit

<http://www.ibm.com/servers/eserver/zseries/software/java/>

This program when downloaded from a Web site, contains the applicable IBM license agreement, and License Information (LI), if appropriate, and will be presented for acceptance at the time of installation of the program. The license and LI will be stored in a directory such as LICENSE.TXT for future reference.

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>.

Security, auditability, and control

31-bit SDK for z/OS, Java 2 Technology Edition, V5 uses the security and auditability features of the host z/OS operating system. For more information, refer to Software Announcement 204-180, dated August 10, 2004. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

Charge metric

Program name	Part number or PID number	Charge metric
IBM 31-bit SDK for z/OS, Java 2 Technology Edition, V5	5655-N98	No-charge program
IBM SDK for z/OS Software Subscription and Support	5655-I48	No-charge program

For information on downloading the code from the zSeries Java Web site, visit

<http://www.ibm.com/servers/eserver/zseries/software/java/>

Processor

In Full Capacity charging, PoEs must be acquired for all activated "processors" (available for use) that are on the server where the Program or a component of the Program is run.

1. If there are Program Components included in the offering whose function is not to be included in the charge metric, these must be listed in the Program-unique Terms of the License Information.
2. IBM defines a physical processor in a computer as a functional unit that interprets and executes instructions. A physical processor consists of at least an instruction control unit and one or more arithmetic and logic units.
3. Multi-core technology allows two or more processors (commonly called "cores") to be active on a single silicon chip. Unless otherwise announced, with multi-core technology, IBM considers each "core" to be a physical processor. For example, in a dual-core chip, there are two (2) physical processors residing on the single silicon chip.
4. In the zSeries' Integrated Facility for Linux™ (IFL) environment, each IFL engine is considered a single "physical processor".
5. Threading, a technique which makes a single processor seem to perform as two or more, does NOT affect the count of physical processors.
6. Where "blade" technology is employed, each "blade" is considered a separate server and charging is based upon the total number of processors on the blade on which the Program is run.

Ordering z/OS through the Internet

ShopzSeries 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. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries Web site at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

This is a **no-charge** product.

Basic machine readable material: To order, specify program number 5655-N98

Also, specify the feature number corresponding to the operating environment and desired distribution medium.

Subscription and support: To order, specify program number 5655-I48 for a one-time charge of \$0.00.

Also, specify the feature number corresponding to the operating environment and desired distribution medium.

Order Type Description	Type/model number	Medium feature number	Distribution Medium
IBM 31-bit SDK for z/OS, Java 2 Technology Edition	5655-N98	5802	3480 Tape Cartridge

Basic license: To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

IBM 31-bit SDK for z/OS, Java 2 Technology Edition, V5 (5655-N98)

Entitlement Identifier	Description	License option/pricing metric
S011R12	IBM 31-bit SDK for z/OS V5	Unlimited Installs Basic No Charge

Orderable Supply ID	Language	Distribution Medium
S011R14	English	3480 Tape Cartridge

Subscription and Support PID 5655-I48

Entitlement Identifier	Description	License option/pricing metric
S00X7JC	IBM SDK for z/OS Software Subscription and Support	Unlimited Installs SW Subscription and Support

Orderable Supply ID	Language	Distribution Medium
S00X7H8	English	Paper

Customized Offerings

Product media is shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac). Non-customized items (CDs, diskettes, source media, media kits) will continue to be shipped via the stand-alone product.

Terms and conditions

Agreement: IBM International Program License Agreement (IPLA). Proofs of Entitlement are required for all authorized use.

These products are licensed under the IPLA and the associated Agreement for Acquisition of Support, which provides for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours) as well as access to updates, releases, and versions of the program as long as support is in effect. S/390® and zSeries IBM Operational Support Services — SoftwareXcel is an option for those customers who desire added services.

Limited warranty: Yes

Program services

Warranty: This program has warranty for a minimum of one year from acquisition from IBM or authorized IBM Business Partner. The warranty provided to the customer, for at least one year from acquisition, is access to databases (read Web sites) for program information and FAQs, including any known fixes to defects, which the customer can download or obtain otherwise and install at leisure.

Program support: Enhanced Support, called Subscription and Support, includes telephone assistance (voice support for defects during normal business hours) as well as access to updates, releases, and versions of the program as long as support is in effect. The customer will be notified of discontinuance of support with 12 months' notice.

Money-back guarantee: If for any reason you are dissatisfied with the program and you are the original licensee, return it within 30 days from the invoice date to the party (either IBM or its reseller) from whom you acquired it for a refund. For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by the customer.

Copy and use on home/portable computer: No

Volume orders (IVO): No

Passport Advantage® applies: No

Usage restriction: Yes

Third-party code

31-bit SDK for z/OS, Java 2 Technology Edition, V5 includes software developed by The Apache Software Foundation. You may visit The Apache Software Foundation at

<http://www.apache.org>

Software Maintenance applies: No

For operating system software, the revised IBM Operational Support Services — SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the newly announced Software Maintenance offering. This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised SoftwareXcel offering, visit

<http://www.ibm.com/services/si/products>

For additional information on the revised IBM Operational Support Services, refer to Services Announcement 601-023, dated July 10, 2001.

IBM Operational Support Services — SoftwareXcel: Yes

iSeries™ Software Maintenance applies: No

Variable charges apply: No

Educational allowance available: Yes, 15% education allowance applies to qualified education institution customers.

IBM Electronic Services

IBM Global Services has transformed its delivery of hardware and software support services to put you on the road to higher systems availability. IBM Electronic Services is a Web-enabled solution that provides you with an exclusive, no-additional-charge enhancement to the service and support on the IBM eServer. You should benefit from greater system availability due to faster problem resolution and preemptive monitoring. IBM Electronic Services is comprised of two separate, but complementary, elements: IBM Electronic Services news page and IBM Electronic Service Agent™.

IBM Electronic Services news page provides you with a single Internet entry point that replaces the multiple entry points traditionally used by customers to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The IBM Electronic Service Agent is a no-additional-charge software that resides on your IBM eServer system. It is designed to proactively monitor events and transmit system inventory information to IBM on a periodic, customer-defined timetable. The IBM Electronic Service Agent tracks system inventory, hardware error logs, and performance information. If the server is under a current IBM maintenance service agreement or within the IBM warranty period, the Service Agent automatically reports hardware problems to IBM.

Early knowledge about potential problems enables IBM to provide proactive service that maintains higher system availability and performance. In addition, information collected through the Service Agent will be made available to IBM service support representatives when they are helping answer your questions or diagnosing problems.

To learn how IBM Electronic Services can work for you, visit

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

Prices

Information on charges is available at

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

Choose the option entitled purchase/upgrade tools.

IBM 31-bit SDK for z/OS, V5 (5655-N98)

Entitlement Identifier	Description	License option/ pricing metric
S011R12	IBM 31-bit SDK for z/OS, V5	Unlimited Installs Basic No Charge

Subscription and Support PID 5655-I48

Entitlement Identifier	Description	License option/ pricing metric
S00X7JC	IBM SDK for z/OS Software Subscription and Support	Unlimited Installs SW Subscription and Support

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Dept. Teleweb Customer Support, 9th floor
105 Moatfield Drive

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Reference: LE001

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Note: Shipments will begin after the planned availability date.

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