

IBM Semeru Runtime Certified Edition for z/OS, Version 11, formerly known as IBM 64-bit SDK for z/OS, Java Technology Edition, delivers a high-performance Java runtime and development kit that supports Java 11 Standard Edition long-term support specification

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Overview

The Java™ language is a general-purpose, portable object-oriented programming language widely used for modern enterprise applications and digital transformation. Supported by a strong community of developers, Java code can be used to efficiently build batch and transactional applications, microservices, and more, by leveraging the abundance of Java APIs, libraries, and frameworks. Java is well-integrated with IBM® z/OS® middleware. This level of integration enables a plethora of architectural options for building business solutions. In addition, Java code can execute on IBM zIIP processor engines that can provide a cost-effective mechanism for running Java workloads on z/OS.

IBM Semeru Runtime Certified Edition for z/OS, Version 11, formerly known as IBM 64-bit SDK for z/OS, Java Technology Edition, is certified with the Java Compatibility Kit as a fully compliant Java product. This rebranding aligns the naming for Java on the z/OS platform with that on other platforms where OpenJDK class libraries are similarly powered by the Eclipse OpenJ9 JVM technology. This offering includes the IBM z/OS platform ports of the OpenJDK Java 11 class libraries and the Eclipse OpenJ9 Java virtual machine (JVM), giving z/OS developers the capability to use new Java language features and currency with the Java community. Furthermore, this compliance can enable developers to confidently port Java applications developed on distributed platforms to z/OS.

Semeru Runtime Certified Edition for z/OS, Version 11 fulfills the statement of direction in Software Announcement [220-008](#), dated April 7, 2020.

Key requirements

Semeru Runtime Certified Edition for z/OS, Version 11 requires the following:

- An IBM Z^(R) server
- A supported level of IBM z/OS

For more details, see the [Technical information](#) section.

Planned availability date

November 19, 2021 from the [Java SDK products on z/OS](#) web page and [IBM Shopz](#) website.

Availability within a country is subject to local legal requirements.

Description

Semeru Runtime Certified Edition for z/OS, Version 11 includes the following features and enhancements:

- Delivers a full-featured Java SDK that supports the Java SE 11 specification on the IBM z/OS platform
- Supports the Java Platform Module System specification
- Contains the community OpenJDK implementation with the latest Eclipse OpenJ9 virtual machine
- Enables you to exploit new capabilities available with z/OS V2.4 and z/OS V2.5, and the latest IBM Z hardware
- Contains a new OpenJCEPlus security provider that can optimize performance through exploitation of cryptographic hardware on IBM Z
- Contains cryptographic algorithms that are required for Transport Layer Security (TLS) 1.3 support in the OpenJCEPlus provider
- Provides enhanced monitoring and diagnostics

The Semeru Runtime Certified Edition for z/OS, Version 11 is designed to give organizations the following capabilities:

- Test and deploy Java applications in a 64-bit environment
- Run Java code on zIIP engines
- Use valuable z/OS functions such as a Batch Launcher for running Java applications as batch jobs or started tasks, with direct access to traditional z/OS data and key z/OS system services (IBM System Management Facilities, catalog search, log streams, system console, and IBM Workload Manager services, among others)
- Benefit from general improvements in the Java runtime environment, which can improve application throughput, startup, and ramp-up
- Benefit from additional reliability, availability, and serviceability (RAS) enhancements
- Exploit the IBM z15™ and IBM z14^(R) instruction sets from Java code

The Semeru Runtime Certified Edition for z/OS, Version 11 continues the strong tradition of Java applications on z/OS, exploiting IBM Z hardware features designed to deliver better performance and capabilities. This support includes:

- Pauseless garbage collection (GC) capability, which is designed to help reduce GC pause times for response-time-sensitive and large heap applications, leveraging the IBM Guarded Storage Facility that was introduced with the z14
- The Data Access Accelerator library, which provides efficient binary coded decimal operators that exploit the IBM z/Architecture^(R) decimal and vector-packed-decimal instructions
- Cryptographic acceleration for key algorithms that exploit IBM CP Assist for Cryptographic Functions (CPACF) and vector hardware instructions
- Transparent exploitation of IBM Hardware Transactional Memory for synchronized regions within multithreaded application code

- Automated JVM adaptation for changing system resource and capacity that is optimized for IBM System Recovery Boost for z/OS by auto-scaling of GC and just-in-time (JIT) compilation threads

Section 508 of the US Rehabilitation Act

The product or offering is capable as of the planned availability date, when used in accordance with associated IBM documentation, of satisfying the applicable standards, including the Worldwide Consortium Web Content Accessibility Guidelines, European Standard EN 301 349, and US Section 508, provided that any assistive technology used with the product properly interoperates with it. An Accessibility Conformance Statement can be requested on the [IBM Accessibility Conformance Report](#) website.

Product positioning

The Semeru Runtime Certified Edition for z/OS, Version 11 is designed to provide a fundamental platform for building highly robust, scalable, and reliable modern enterprise applications. In an ever-connected world, as clients embark on their digital transformation journey on z/OS, Java 11 is essential for enabling their new workloads on-premises and across cloud platforms. This SDK contains the latest virtual machine technology and performance enhancements that can enable organizations to leverage the benefits of IBM Z scalability, reliability, availability, and serviceability, including exploitation of IBM Z hardware features.

The SDK enables Java developers and z/OS clients to exploit new Java language features and stay current with the Java community, while offering clients the flexibility to develop applications from Java 11 on distributed platforms, deploy to z/OS, and migrate existing Java workloads on z/OS to Java 11.

Statement of general direction

IBM intends to deliver other z/OS-specific extensions for Semeru Runtime Certified Edition for z/OS, Version 11 over time with service refreshes. For additional details about the previous statement of direction, see Software Announcement [220-008](#), dated April 7, 2020.

Statements by IBM regarding its plans, directions, and intent are subject to change or withdrawal without notice at the sole discretion of IBM. Information regarding potential future products is intended to outline general product direction and should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for IBM products remain at the sole discretion of IBM.

Reference information

For the most current information about Semeru Runtime Certified Edition for z/OS, Version 11 and other SDKs for z/OS, Java Technology Edition releases, see the [Java SDK products on z/OS](#) web page.

For additional information about IBM 64-bit SDK for z/OS, Java Technology Edition, V8, see Software Announcement [215-004](#), dated January 14, 2015.

Business Partner information

If you are an IBM Business Partner acquiring IBM products or services directly from IBM, you may link directly to Business Partner information for this announcement.

[BP Attachment for Announcement Letter 221-336](#)

Program number

Program number	VRM	Program name
5655-DGJ	11.0.0	IBM Semeru Runtime Certified Edition for z/OS, Version 11
5655-I48	1.1.0	IBM 64-bit SDK for z/OS, Java Technology Edition Subscription and Support

Program number	Subscription and support program number
5655-DGJ	5655-I48

Offering Information

Product information is available on the [IBM Offering Information](#) website.

Publications

The program directory for Semeru Runtime Certified Edition for z/OS, Version 11 (GI12-3356) is available from the [Java SDK products on z/OS](#) web page.

Additional information will be available in [IBM Documentation](#) on November 19, 2021.

Services

IBM Systems Lab Services

Systems Lab Services offers infrastructure services to help build hybrid cloud and enterprise IT solutions. From servers to storage systems and software, Lab Services can help deploy the building blocks of a next-generation IT infrastructure to empower a client's business. Lab Services consultants can perform infrastructure services for clients online or onsite, offering deep technical expertise, valuable tools, and successful methodologies. Lab Services are designed to help clients solve business challenges, gain new skills, and apply best practices.

Lab Services offers a wide range of infrastructure services for IBM Power^(R) servers, IBM Storage systems, IBM Z, and IBM LinuxONE. Lab Services has a global presence and can deploy experienced consultants online or onsite around the world.

For assistance, contact Systems Lab Services at ibmsls@us.ibm.com.

To learn more, see the [IBM Systems Lab Services](#) website.

IBM Consulting

As transformation continues across every industry, businesses need a single partner to map their enterprise-wide business strategy and technology infrastructure. IBM Consulting is the business acceleration partner to help cocreate change across an organization. IBM specialists can help businesses succeed through finding collaborative ways of working that forge connections across people, technologies, and partner ecosystems. IBM Consulting brings together the business expertise and

an ecosystem of technologies that help solve some of the biggest problems faced by organizations. With methods that get results faster, an integrated approach, that is grounded in an open and flexible hybrid cloud architecture, and incorporating technology from IBM Research^(R) and IBM Watson^(R) AI, IBM Consulting enables businesses to lead change with confidence and deliver continuous improvement across a business and its bottom line.

For additional information, see the [IBM Consulting](#) website.

IBM Technology Support Services (TSS)

Get preventive maintenance, onsite and remote support and gain actionable insights into critical business applications and IT systems. Speed developer innovation with end-to-end support for over 240 open-source packages. Leverage powerful IBM analytics and AI-enabled tools to enable client teams to manage IT problems before they become emergencies.

The TSS offers extensive IT maintenance and support services that cover more than one niche of a client's environment. TSS covers products from IBM and other OEMs, including servers, storage, network, appliances, and software to help clients ensure high availability across their data center and hybrid cloud environment.

For details on available services, see the [Technology support for hybrid cloud environments](#) website.

IBM TechU

Improve your knowledge in hybrid cloud and AI solutions. IBM TechU provides the most recent content so that you can learn, engage, and increase your skills with IBM Technology specialists.

A one-year, renewable membership TechU digital membership provides access to IBM Systems online education to help address your technical enablement needs for existing and new projects.

Submit questions or comments to techuid@us.ibm.com.

For additional details, see the [IBM TechU](#) website.

IBM Expert Labs

IBM Expert Labs can help clients accelerate their projects and optimize value by leveraging their deep technical skills and knowledge. With more than 20 years of industry experience, these specialists know how to overcome the biggest challenges to deliver business results that can have an immediate impact.

Expert Labs deep alignment with IBM product development allows for a strategic advantage as they are often the first in line to get access to new products, features, and early visibility into roadmaps. This connection with the development enables them to deliver First of a Kind (FOAK) implementations to address unique needs or expand a client's business with a flexible approach that works best for their organization.

For additional information, see the [IBM Expert Labs](#) website.

IBM SecurityTM Expert Labs

With extensive consultative expertise on IBM Security software solutions, IBM Security Expert Labs helps clients and partners modernize the security of their applications, data, and workforce. With an extensive portfolio of consulting and learning services, Expert Labs provides project-based and premier support service subscriptions.

These services can help clients deploy and integrate IBM Security software, extend their team resources, and help guide and accelerate successful hybrid cloud solutions including critical strategies such as zero trust. Remote and on-premises

software deployment assistance is available for IBM Cloud Pak^(R) for Security, IBM Security QRadar^(R)/QRoC, IBM Security SOAR/Resilient^(R), IBM i2^(R), IBM Security Verify, IBM Security Guardium^(R), and IBM Security MaaS360^(R).

For more information, contact Security Expert Labs at sel@us.ibm.com.

For additional information, see the [IBM Security Expert Labs](#) website.

Technical information

Specified operating environment

Hardware requirements

This program runs on the following IBM Z servers:

- IBM z15™ Models T01 and T02
- IBM z14^(R) Models M01-M05
- IBM z14 Model ZR1
- IBM z13^(R)
- IBM z13s^(R)
- IBM zEnterprise^(R) EC12 (zEC12)
- IBM zEnterprise BC12 (zBC12)

Software requirements

Semeru Runtime Certified Edition for z/OS, Version 11 requires z/OS V2.4 (5650-ZOS), or later. Specific functions might require additional products not included in z/OS base or its optional features.

Compatibility

Significant changes introduced with Semeru Runtime Certified Edition for z/OS, Version 11 (5655-DGJ) might require existing applications running 64-bit SDK for z/OS, Java Technology Edition, V8 (5655-DGJ), or earlier, to be updated.

Client applications that previously used the 31-bit Java SDK might need to be modified to run in 64-bit mode.

The Java module system introduces various changes to the structure, content, and operation of the Java runtime. Some JDK-internal APIs were restructured; applications with such dependencies might need to be migrated to use the supported APIs.

IBM SDK, Java Technology Edition, V8 contains the IBM security implementation. However, IBM Semeru Runtime Certified Edition for z/OS, Version 11 contains the OpenJDK security implementation. Differences between these implementations might require code changes to your applications. For more details, see the [Semeru Runtimes security migration guide](#) web page.

For additional information about compatibility and migration, see the documentation for Semeru Runtime Certified Edition for z/OS, Version 11 that will be available on November 19, 2021 in [IBM Documentation](#).

The following are independently orderable and serviced products that can coexist on the same z/OS system:

- Semeru Runtime Certified Edition for z/OS, Version 11 (5655-DGJ)
- 64-bit SDK for z/OS, Java Technology Edition, V8 (5655-DGH)
- 31-bit SDK for z/OS, Java Technology Edition, V8 (5655-DGG)

IBM Support

[IBM Support](#) is your gateway to technical support tools and resources that are designed to help you save time and simplify support. IBM Support can help you find answers to questions, download fixes, troubleshoot, submit and track problem cases, and build skills. Learn and stay informed about the transformation of IBM Support, including new tools, new processes, and new capabilities, by going to the [IBM Support Insider](#).

Additional IBM support

IBM Garage™

IBM Garage is a framework for accelerating digital transformation. It helps you generate innovative ideas and equips you with the practices, technologies, and expertise to turn those ideas into business value in weeks. When you work with IBM Garage you bring pain points into focus. You empower your team to take manageable risks, adopt leading technologies, speed up solution development, and measure the value of everything you do. IBM Garage has experts and services to address a broad array of use cases, including capabilities for business transformation, hybrid cloud, analytics and AI, infrastructure systems, security, and more. For more information, see the [IBM Garage](#) website.

IBM Z Washington System Center (WSC)

IBM Z Washington Systems Center (WSC): WSC, a team with deep technical expertise, provides technical assistance. WSC teams can help position, design, and implement solutions, and support critical situations that contribute to IBM Z, IBM LinuxONE, and Linux® on IBM Z software, hardware, and services. For installation and technical support, provided by local Technical Specialists, contact the WSC at ilin@us.ibm.com.

For additional information, see the [Washington System Center -IBM Z](#) website.

Planning information

Packaging

You can download Semeru Runtime Certified Edition for z/OS, Version 11 from the [Java SDK products on z/OS](#) web page or order the program package. Semeru Runtime Certified Edition for z/OS, Version 11 is shipped with the following:

- Basic machine-readable material
- License Information

For additional documentation, see the [Java SDK products on z/OS](#) web page.

Security, auditability, and control

Semeru Runtime Certified Edition for z/OS, Version 11 uses the security and auditability features of the host software.

The client is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

Consult your IBM representative or IBM Business Partner.

Ordering IBM Semeru Runtime Certified Edition for z/OS, Version 11 through the Internet

Shopz provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct program migration, and present your new configuration based on z/OS. Additional programs can also be added to your order (including determination of whether all program requisites are satisfied). For more details and availability, see the [Shopz](#) website.

This is a no-charge program.

Charge metric

The charge metrics for this licensed program can be found in the following License Information document:

Program identifier	License Information document title	Form number	License Information document number
5655-DGJ	IBM Semeru Runtime Certified Edition for z/OS, Version 11	GI12-3355	L-JPLW-BPLKPT

Select your language of choice and scroll down to the Charge Metrics section. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

Basic license

To order, specify the program ID number and the appropriate license or charge option.

IBM Semeru Runtime Certified Edition for z/OS, Version 11 (5655-DGJ)

Entitlement identifier	Description	License option/Pricing metric
S018HHB	IBM Semeru Runtime Certified Edition for z/OS, Version 11	Unlimited Installs Basic, No charge
		Multi-Version Measurement, No charge
Orderable supply ID	Language	
S018HHC	US English	

The orderable supply IDs are supplied in US English only.

IBM recommends internet delivery. However, if you still require physical media, you can choose DVD.

Subscription and Support Program ID (5655-I48)

Entitlement identifier	Description	License option/Pricing metric
S00X7JC	IBM 64-bit SDK for z/OS, Java Technology Edition	Unlimited Installs SW Subscription and Support
		Decline SW S&S, No charge
		Multi-Version Measurement, No charge
Orderable supply ID	Language	
S00X7H8	US English	

Customized Offerings

Product deliverables are shipped only through CBPDO and ServerPac. These customized offerings are offered for internet delivery. For more details on Internet delivery, go to the Help section on the [Shopz](#) website.

IBM recommends internet delivery. However, if you still require physical media, you can choose DVD.

Many products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered through CBPDO and ServerPac on the planned availability date. Many products will also be orderable in a ServerPac without also having to order the z/OS operating system or subsystem.

Shopz and CFSW will determine the eligibility based on product requisite checking. For more details on the ServerPac, go to the Help section on the [Shopz](#) website.

Production of software product orders will begin on the planned availability date.

- CBPDO shipments will begin within 3 business days after the planned availability date.
- ServerPac availability and shipments will begin within 3 - 4 weeks after the planned product availability date due to additional customization and data input verification.

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage^(R) Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Software Maintenance

The following agreement applies for Software Subscription and Support (Software Maintenance) and does not require client signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

This program is licensed under the IBM International Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. This program has 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.

License Information number

The following License Information document applies to the offering in this announcement:

Program identifier	License Information document title	Form number	License Information document number
5655-DGJ	IBM Semeru Runtime Certified Edition for z/OS, Version 11	GI12-3355	L-JPLW-BPLKPT

Follow-on releases, if any, may have updated terms. See the [License Information documents](#) website for more information.

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, see the [IBM Support Guide](#).

IBM will maintain this information for at least one year after the original licensee acquires the program (warranty period).

Program technical support

Standard support

Technical support of a program product version or release will be available for a minimum of three years from the planned availability date, as long as your Software Subscription and Support is in effect.

This technical support allows you to obtain assistance (by telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, through an announcement letter, of discontinuance of support with 12 months' notice.

If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

For additional information on the IBM Software Support Lifecycle Policies, see the [Standard and enhanced IBM software support lifecycle policies](#) website.

Volume orders (IVO)

No

Passport Advantage applies

No

Usage restrictions

Yes

For usage restrictions, see the License Information documents listed in this [Terms and conditions](#) section.

Software Subscription and Support applies

Yes. During the Software Subscription and Support period, for the unmodified portion of a program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

- Defect correction information, a restriction, or a bypass.
- Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements and new versions and releases to the program and documentation.
- Technical assistance: A reasonable amount of remote assistance by telephone or electronically to address suspected program defects. Technical assistance is available from the IBM support center in the organization's geography.

Additional details regarding Technical Assistance, which includes IBM contact information, are provided in the [IBM Support Guide](#).

Software Subscription and Support does not include assistance for:

- The design and development of applications.
- Your use of programs in other than their specified operating environment.
- Failures caused by products for which IBM is not responsible under the IBM Agreement for Acquisition of Software Maintenance.

Software Subscription and Support is provided only if the program is within its support timeframe as specified in the Software Support Lifecycle policy for the program.

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance by telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, go to the [IBM Support Handbooks](#) page.

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

IBM Operational Support Services - SoftwareXcel

No

Variable charges apply

No

Educational allowance available

Education allowance does not apply.

Multi-Version Measurement

Multi-Version Measurement (MVM) replaces the previously announced Migration Grace Period time limit of six months and allows unlimited time for clients to run more than one eligible version of a software program. Clients may run multiple versions of a program simultaneously for an unlimited duration during a program version upgrade. Clients may also choose to run multiple versions of a program simultaneously for an unlimited duration in a production environment. MVM does not extend support dates for programs withdrawn from service.

For more information about MVM, including requirements for qualification, see the [MVM](#) web page. For a list of eligible programs, see the [IPLA Execution-Based](#) web page.

Statement of good security practices

IT system security involves protecting systems and information through intrusion prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

Important: IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

Prices

This program and S&S are no-charge.

IBM Global Financing

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Phone: 800-IBM-CALL (426-2255)

Fax: 800-2IBM-FAX (242-6329)

For IBM representative: askibm@ca.ibm.com

For IBM Business Partner: pwcs@us.ibm.com

IBM Digital Sales Offices
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Coppell, TX 75019-4642, US

The IBM Digital Sales Center, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

Regional availability

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