IBM Z Distribution for Zowe V1.0 delivers open source integration services on IBM z/OS to enhance the user experience

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At a glance

Zowe™ technology from the Open Mainframe Project™ of the Linux®️ Foundation delivers new ways to integrate z/OS®️-based services into the enterprise, including hybrid cloud environments, and improved ways to integrate z/OS-based products. It helps to make the IBM®️ z/OS platform easier to learn and use for the next-generation IT staff.

IBM Z®️ Distribution for Zowe V1.0:

- Provides IBM delivery of Zowe open source software in executable form to extend and enhance z/OS products and services
- Includes an entitlement to IBM SDK for Node.js -z/OS, V12.0 as a supporting program of IBM Z Distribution for Zowe
- Is delivered in z/OS standard software package format (SMP/E)
- Includes entitled IBM Subscription and Support (S&S) when Zowe is used as a prerequisite for IBM products, and S&S has been purchased for such IBM products
- Offers optional worldwide 24x7 fee-based S&S when Zowe is used independent of IBM products, subject to IBM standard terms and conditions

Overview

IBM products, third-party products, and user-written extensions can improve the z/OS user experience. Zowe is one such offering that will primarily benefit enterprise IT staff. They can use Zowe's REST API-based modern interfaces to more easily work with z/OS. Zowe provides both popular web browser technology and an intuitive command line interface. With Zowe technology, z/OS services can better integrate within an enterprise or across an enterprise, such as in hybrid cloud environments. In addition, Zowe can enhance software that coresides on z/OS.

Zowe is open source software licensed under the Eclipse Public License 2.0 from the Open Mainframe Project of the Linux Foundation. IBM is delivering Zowe from the open community in IBM Z Distribution for Zowe V1.0 for use with IBM products, for clients who want to build their own extensions, and for independent software vendors (ISVs) for use with their products.

The Zowe open source project consists of three primary technologies that are included in Z Distribution for Zowe. These technologies are the basis for many integration scenarios for z/OS services and products.

- Zowe API Mediation Layer provides an API catalog of REST APIs on z/OS. The catalog consolidates the various REST APIs that exist on the platform and provides for monitoring their status, securely controlling access, and balancing workload of REST API requests for performance and high availability.
- Zowe Application Framework is a user interface for web browsers accessing z/OS. Application Framework provides a common web desktop for z/OS that is typical for cloud, laptop, or desktop systems. Web applications are provided with Zowe and applications can be added to the desktop to provide a consistent user experience across many products or systems.
- Zowe Command Line Interface provides a simple textual interface for accessing and using z/OS services. This interface supports simple line commands when users are working with z/OS. It can be used in combination with popular scripting languages to create powerful and multipurpose automation.

In addition to the Zowe technologies, IBM Z Distribution for Zowe includes IBM SDK for Node.js -z/OS, V12.0, which is a runtime prerequisite for Zowe Application Framework.

IBM Z Distribution for Zowe is zero-cost software. When an IBM product uses Zowe as a prerequisite and IBM Subscription and Support (S&S) has been purchased, S&S for Zowe is included. When IBM Z Distribution for Zowe is used by a client or ISV independent of an IBM product, Zowe can be supported by IBM Support, worldwide, for a fee.

For additional information on Zowe, see the Linux Foundation website.

Key requirements

IBM Z Distribution for Zowe V1.0 runs on IBM Z servers supporting z/OS V2.3 (5650-ZOS), or later.

Planned availability date

March 6, 2020

Description

IBM Z Distribution for Zowe is aimed at simplifying and accelerating the adoption of the Zowe open source technology delivered through IBM ShopZ. This program is supported by IBM Subscription and Support (S&S) when used with IBM products where S&S is entitled, or when optional S&S has been purchased when IBM Z Distribution for Zowe is used as a stand-alone offering. IBM SDK for Node.js -z/OS, V12.0 is included as a supporting program of IBM Z Distribution for Zowe as a prerequisite of Zowe.

Zowe consists of three technologies: Application Framework, API Mediation Layer, and Command Line Interface. Each of these technologies can be extended through open and published interfaces to broaden their use with other z/OS software. The primary purpose of Zowe is twofold:

- To enhance IT staff use of z/OS services
- To integrate z/OS into a digital enterprise

IBM products leverage the Zowe technologies to provide a consistent interface for IT staff. IBM products that provide REST APIs can populate the API Mediation Layer and use the REST API management functions included in Zowe.

Zowe also delivers out-of-the box capabilities to make z/OS easier to use and to support enterprise digital transformation. These include:

- Application Framework supports the latest technology of web applications. The Framework comes with applications that use REST APIs to access z/OS data, provide simple editing of files, access z/OS JES output, and use various commands to submit jobs and to create and copy files using a browser user interface.
- Command Line Interface also provides access to data, JES output, and commands, but using a text user interface. It can be scripted using various interpretive languages, providing simple automation and productivity capabilities.
- API Mediation Layer provides a general-purpose catalog for REST APIs on z/OS. REST APIs from other z/OS products can be defined in the catalog for tracking their status, controlling secure access, and (when multiple instances of the same REST API are possible) providing balancing of the workload among API instances.

Zowe is extensible in several ways, allowing the runtime environment to be expanded by anyone, including IBM product teams, third-party software providers (ISVs), and z/OS users. Examples of how Zowe can be extended are:

- New web-based applications that run in Zowe Application Framework and interact with the z/OS REST APIs to provide new and innovative tools for IT staff using z/OS
- Extensions to Zowe Command Line Interface (referred to as plug-ins) that expand the command line commands to use new z/OS REST APIs and use existing REST APIs in new and innovative ways

More information is available at the Zowe website.

IBM Support

IBM Software Subscription and Support (S&S) is optional for IBM Z Distribution for Zowe. The IBM Support organization is made up of teams of individuals who work together to provide responsive platform and cross-platform software support when required. For complex or code-related problems, IBM has specialized, skilled service teams with access to the experts in all IBM development laboratories. Access to the right level of IBM expertise is available with S&S when needed, no matter the location.

Value Unit-based pricing

Value Unit pricing for eligible IBM Z IBM International License Agreement for Non-Warranted Programs (ILAN) programs enables a lower cost of incremental growth and enterprise aggregation. Each IBM Z ILAN product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each IBM Z ILAN program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity** . Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three-digit code and referred to using the nomenclature VUExxx, where xxx is the three-digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each IBM Z ILAN program that you have acquired is referred to as **entitled license capacity** . If you wish to grow your entitled license capacity for an IBM Z ILAN program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each IBM Z ILAN program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs.
- Aggregate the MSUs across the enterprise.
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit.
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost.

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, see the IBM Z Software Pricing website.

Note that Value Units of a given program cannot be exchanged, interchanged, or aggregated with Value Units of another program.

To determine the required license capacity for the IBM Z ILAN program you selected, see the Terms and conditions section.

Program number

Program number	VRM	Program name
5698-ZWE	1.0.0	IBM Z Distribution for Zowe
5698-ZWF	1.0.0	IBM Z Distribution for Zowe S&S

Program number	Subscription and Support PID number
5698-ZWE	5698-ZWF

Offering Information

Product information is available on the IBM Offering Information website.

Publications

Publication delivery type legend:

- "E" - Electronic only
- "B" - Electronic, and Physical

The following publications are shipped with IBM Z Distribution for Zowe V1.0.0 (5698-ZWE):

Title	Order number	Delivery type
IBM Z Distribution for Zowe V1.0.0 - Program Directory	GI13-5213	E
IBM Z Distribution for Zowe V1.0.0 - License Information CD	LC27-9711	B

Documentation for IBM Z Distribution for Zowe can be found in IBM Knowledge Center.

Services

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of the lab-based software services

team and the business consulting, project management, and infrastructure expertise of the IBM Global Services team. IBM provides the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

To learn more about IBM Software Services, contact your Lab Services Sales or Delivery Leader.

Technical information

Specified operating environment

Software requirements

IBM Z Distribution for Zowe V1.0.0 requires:

- z/OS V2R3 (5650-ZOS), or later

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.

Planning information

Packaging

The IBM Z Distribution for Zowe V1.0.0 package includes:

- Program software
- Program Directory (GI13-5213)
- Licensed Information CD (LC27-9711)

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

Ordering information

Consult your IBM representative.

This program has Value Unit-Based pricing.

Program number	Program name	Value Unit Exhibit
5698-ZWE	IBM Z Distribution for Zowe	VUE007

For each z Systems[(R)] ILAN program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the *required license capacity.* Your required license capacity is based upon the following factors:

- The z Systems ILAN program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

Value Unit Exhibit VUE007

	MSUs minimum	MSUs maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.20

Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected IBM Z ILAN product, the applicable Value Units would be:

Tier	MSUs	Multiplied by Value Units per MSU	Equal Value Units
Base	3	1.00	3.00
Tier A	42	.45	18.90
Tier B	130	.36	46.80
Tier C	140	.27	37.80
Tier D	1,185	.20	237.00
Total	1,500		343.50

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Ordering z/OS 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 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). For more details and availability, go to the Shopz website.

Charge metric

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

Program identifier	License Information document title	License Information document number
5698-ZWE	IBM Z Distribution for Zowe	L-NKOS-BJCQYA

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

Translation from MSUs to Value Units

	MSUs	Value Units/MSU
Base	1-3	1.00
Tier A	4-45	0.45
Tier B	46-175	0.36
Tier C	176-315	0.27
Tier D	316 or greater	0.20

To order, specify the program ID number and the appropriate license or charge option. To suppress shipment of media, select the license-only option in CFSW.

Program name: IBM Z Distribution for Zowe

Program ID: 5698-ZWE

Entitlement identifier	Description	License option/Pricing metric
S018H2F	IBM Z Dist for Zowe V1	MultiVersion Measurement No Charge Value Units
		On Off Capacity on demand Temporary Use Charge MSU-DAY(s)
		Use-Based License One-Time Charge Value Units

Orderable supply ID	Language	
S018H2J	English US	

You choose the delivery method when you order the software. IBM recommends internet delivery. However, if you still require physical media, you can choose DVD.

Subscription and Support Program ID: 5698-ZWF

Entitlement identifier	Description	License option/Pricing metric
S018H2G	IBM Z Distribution for Zowe S&S	Decline Subscription and Support No Charge Value Units
		MultiVersion Measurement S&S No Charge Value Units
		SW Subscription and Support Annual Support Charge Value Units
		SW Subscription and Support Monthly Support Charge Value Units
		SW Subscription and Support Registration (minus Supply right) No Charge Per MSU

Orderable supply ID	Language	
S018H2H	US English	

Subscription and Support

To receive voice technical support via telephone and future releases and versions, Subscription and Support must be purchased. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program ID referenced above and the appropriate license or charge option.

IBM is providing Subscription and Support for these programs with a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance. This offering:

- Includes and extends the support services provided in the base support to include technical support by telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new programs.

When Subscription and Support is ordered, the charges will automatically renew annually unless canceled by you.

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 Product 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 Product 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 one week after the planned availability date.
- ServerPac shipments will begin four weeks after the planned availability date.

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 License Agreement for Non-Warranted Programs, IBM International Passport Advantage(R) Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

License Information number

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

Program identifier	License Information document title	License Information document number
5698-ZWE	IBM Z Distribution for Zowe	L-NKOS-BJCQYA

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

Limited warranty applies

No.

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the 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 you.

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 purchased, 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.

Software Subscription and Support (also referred to as Software Maintenance) is available as an option and may be purchased in 12-month increments. 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

Yes. A 15% education allowance applies to qualified education institution clients.

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

Registered external clients and IBM Business Partners can access IBMLink to view pricing information.

Specify "Price type," "Search type," and "Search value," then click "Search."

Note: Enter program number in the "Search value."

You can also contact your local IBM representative or IBM Business Partner for the applicable charges.

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For the most current information regarding IBM products, consult your IBM representative or reseller, or go to the IBM worldwide contacts page

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