

IBM Db2 DevOps Experience for z/OS, V1.1 delivers a role-based tool to implement DevOps practices for application deployments that use Db2 data on IBM Z with greater agility at lower costs and reduced risks

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At a glance

IBM^(R) Db2^(R) DevOps Experience for z/OS^(R) offers the following features and benefits:

- Application development that can prepare and remove Db2 for Z test environments without requiring mainframe knowledge
- Cognitive discovery capabilities to identify schema application components
- Intelligent Data Definition Language (DDL) editor that prevents coding unauthorized changes to save time and resources
- Role-based system for administrators to create teams, environments, and permissions with review and approval of database change requests
- Integration of database schema management into the existing Continuous Delivery process
- Application of platform-as-a-service (PaaS)-type practices to Db2 on z/OS environments to empower faster development, testing, and integration of application changes that include database modifications through automation and standardization

Overview

Db2 DevOps Experience for z/OS enables organizations to bring applications that use mainframe Db2 data on IBM Z^(R) to market more rapidly, at lower costs, and with less risk.

- This role-based Db2 for z/OS tool enables development teams to implement DevOps practices by automating and standardizing database-related application development tasks. This enables database administrators to help ensure that company standards and business rules are protected.
- Built on Zowe¹, the first open source framework for z/OS, this tool helps organizations continue their digital transformation to better serve the demands of their clients and differentiate themselves from their competitors.
- Reduces the time to securely manage, control and develop applications on IBM Z.

Db2 DevOps Experience for z/OS, V1.1 provides a solution that enables database administrators to more effectively establish the parameters for application developers to build Db2 for z/OS test database environments. The database administrator controls the criteria for acceptance of changes from development

to Db2 for z/OS environments. Storage limits can be set to ensure provisioned environments do not overload system resources. Site rules and business standards can be defined to provide control and security of database objects accessed in Db2 applications. This prevents the application developer from coding unauthorized changes that could affect unwanted changes in production database environments.

Once the database administrator establishes the framework for accessing Db2 for z/OS objects, application developers can incorporate Db2 for z/OS objects into their existing application development process with minimum mainframe knowledge. They can implement application and database object changes in their provisioned environment without the intervention of a database administrator.

Value for database administrators includes:

- Set up teams, environments, and application database objects to be used by application development
- Automatically discover and select application database objects.
- Set up instance and storage limits to prevent overallocation of system resources.
- Report on amount of storage used by provisioned application database objects.
- Define rules to enable policy-based self-provisioning and database object management.
- Review and approve developer changes to application database objects.
- View history of changes to application database objects.

Value for application developers:

- Provide effortless provisioning of application database objects.
- Perform schema changes in syntax and object-aware using Data Definition Language (DDL) editor.
- Allow for real-time notification of site rule violations.
- Provide the ability to manage database object changes using source code control practices.
 - Submit database object changes for approval.
 - Merge changes from other developers as they get approved.
- Enable complete removal of application database objects and their test environments.

Value for quality analysts and automation engineers include:

- Exploit RESTful APIs to facilitate automated deployment through integration with orchestration software.

For additional information on Db2 DevOps Experience for z/OS, see [IBM Marketplace](#).

¹ For additional information on Zowe, see Software Announcement [218-405](#), dated August 14, 2018.

Key prerequisites

Db2 DevOps Experience for z/OS, V1.1 requires:

- IBM Z server
- IBM z/OS V2.2, or later
- IBM Db2 for z/OS
- IBM SDK for Node.js -z/OS, V6.14.4, or later
- z/OS Open Source Tools

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

Planned availability date

November 23, 2018

See the [Availability of national languages](#) section for national language availability.

Section 508 of the US Rehabilitation Act

Db2 DevOps Experience for z/OS, V1.1 is capable as of November 23, 2018, when used in accordance with associated IBM documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Accessibility Conformance Statement can be requested on the [Product accessibility information](#) website.

Value Unit-based pricing

Value Unit pricing for eligible IBM z Systems^(R) IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each z Systems^(R) IPLA 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 z Systems IPLA 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 z Systems IPLA program that you have acquired is referred to as **entitled license capacity**. If you wish to grow your entitled license capacity for a z Systems IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each z Systems IPLA 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, visit the Value Unit Converter Tool, go to the [IBM System z^{\(R\)} Software Pricing](#) website.

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

To determine the required license capacity for the z Systems IPLA program you selected, see the Terms and conditions section.

Availability of national languages

Translation information, if available, can be found at the [Translation Reports](#) website.

Program number

Program number	VRM	Program name
5698-DEX	1.1.0	IBM Db2 DevOps Experience for z/OS
5698-DEW	1.1.0	Subscription and Support for IBM Db2 DevOps Experience for z/OS

Product identification number

Program number	Subscription and Support PID number
5698-DEX	5698-DEW

Offering Information

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

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to [BP Attachment for Announcement Letter 218-470](#) for this announcement. A PartnerWorld^(R) ID and password are required (use IBMid).

Publications

The following publications are shipped with the product.

Title	Order number
Db2 DevOps Experience for z/OS, V1.1	
License Information	GC27-9140
Program Directory	GI13-5008

Product documentation will be available on November 23, 2018, on [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 our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide 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

Hardware requirements

Db2 DevOps Experience for z/OS, V1.1 operates on any one of the following IBM Z servers:

- IBM z14™
- IBM z13^(R)
- IBM zEnterprise^(R) EC12
- IBM zEnterprise BC12

For the most current hardware requirements information, see the [IBM Support website](#).

Software requirements

Db2 DevOps Experience for z/OS, V1.1 requires:

- z/OS V2.2 (5650-ZOS), or later
- One of the following:
 - Db2 for z/OS, V11 (5615-DB2)
 - Db2 for z/OS Value Unit Edition, V11 (5679-P43)
 - Db2 for z/OS, V12.1 (5650-DB2)
 - Db2 for z/OS Value Unit Edition, V12.1 (5770-AF3)
- SDK for Node.js -z/OS, V6.14.4, or later (5655-SDK)
- [z/OS Open Source Tools - Git for z/OS V2.14.4, or higher](#)
- [z/OS Open Source Tools - OpenSSL V1.0.2, or higher \(Optional\)](#)

For the most current software requirements information, see the [IBM Support website](#).

Planning information

Packaging

The programs in this announcement are distributed with the following content:

- Basic machine-readable material
- Program Directory
- IBM International Program License Agreement (IPLA)
- IBM Agreement for Acquisition of Software Maintenance (IAASM)

Direct client support

Direct client support is provided by IBM Operational Support Services - SoftwareXcel. This fee service enhances your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products. Installation and technical support is provided by Global Services. For more information, call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or see the [IBM Support Portal](#) website.

Ordering information

Consult your IBM representative.

The programs in this announcement all have Value Unit-Based pricing.

Program number	Program name	Value Unit exhibit
5698-DEX	IBM Db2 DevOps Experience for z/OS	VUE007

For each Z IPLA 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 IPLA 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 z Systems IPLA 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, see the [Shopz](#) website.

Charge metric

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

Program name	PID number	License Information document number
IBM Db2 DevOps Experience for z/OS, V1.1	5698-DEX	L-KCPM-B4XM6Y

Select your language of choice and scroll down to the Charge Metrics section.

Basic license

On/Off CoD

Db2 DevOps Experience for z/OS, V1.1 is eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

Program name: IBM Db2 DevOps Experience for z/OS, V1.1

Program ID: 5698-DEX

Entitlement identifier	Description	License option/pricing metric
S018CZ1	IBM Db2 DevOps Experience for z/OS	Basic OTC, Per MSU-day TUC

Translation from MSUs to Value Units

	MSUs	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 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 Db2 DevOps Experience for z/OS

Program ID: 5698-DEX

Entitlement identifier	Description	License option/Pricing metric
S018CZ1	Db2 DevOps Experience for z/OS V1.1	Multi-Version Measurement - No Charge Value Units
		Basic OTC, Per Value Unit
		Basic OTC, Per MSU-day TUC

Orderable supply ID	Language
S018CZ2	US English

Subscription and Support PID: 5698-DEW

Entitlement identifier	Description	License option/Pricing metric
S018CZ4	Db2 DevOps Experience for z/OS S&S	Basic ASC, Per Value Unit SW S&S
		No charge, decline SW S&S
		Multi-Version Measurement S&S No Charge
		Per MSU SW S&S registration

Orderable supply ID	Language
S018CZ5	US English

Subscription and Support

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. 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 number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via 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 via telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

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

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional IIBM Z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order **both** the license for the program **and** the support for the selected programs at the same Value Unit quantities.

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.

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.

Many products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered through CBPDO and ServerPac at general availability. 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 general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin four weeks after general availability.

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.

Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Software Subscription and Support (Software Maintenance) and does not require client signatures.

These programs are licensed under the IBM 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. 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. IBM Z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information number

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

Program name	LI number
IBM Db2 DevOps Experience for z/OS, V1.1	L-KCPM-B4XM6Y

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.

The program's License Information will be available for review on the [IBM Software License Agreement](#) website

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 Software Support Handbook](#).

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

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

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 Software Support Handbook](#).

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.

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 Software Subscription and Support (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 offering, go to the [Supported product list](#) website.

IBM Operational Support Services - SoftwareXcel

Yes

Variable charges apply

No

Educational allowance available

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

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.

Sub-capacity terms and conditions

For each IBM Z IPLA 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 IBM Z IPLA program you select.
- The applicable Value Unit Exhibit.
- The applicable terms.
- Whether your current mainframes are full capacity or sub-capacity.

For more information on the Value Unit Exhibit for the IBM Z IPLA program you selected, see the [Ordering information](#) section.

Program number	Program name	Terms	Parent, if applicable
5698-DEX	BM Db2 DevOps Experience for z/OS, V1.1	Reference-based	<ul style="list-style-type: none">• Db2 for z/OS, V11 (5615-DB2^(R))• Db2 for z/OS Value Unit Edition, V11 (5697-P43)• Db2 for z/OS, V12 (5650-DB2)• Db2 for z/OS Value Unit Edition, V12 (5770-AF3)

Full-capacity mainframes

In cases where full capacity is applicable, the following terms apply.

Execution based, z/OS based, full machine based: The required capacity of an IBM Z IPLA program with these terms equals the MSU-rated capacity of the machines where the IBM Z IPLA program executes.

For more information on mainframe MSU-rated capacities, see the [IBM System z Software Contracts](#) website.

Reference based: The required license capacity of an IBM Z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Sub-capacity mainframes

In cases where sub-capacity is applicable, the following terms apply.

Execution-based: The required capacity of an IBM Z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the IBM Z IPLA program executes.

z/OS-based: The required license capacity of an IBM Z IPLA program with these terms equals the license capacity of z/OS on the machines where the IBM Z IPLA program executes.

Reference-based: The required license capacity of an IBM Z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

Full-machine-based: The required license capacity of an IBM Z IPLA program with full-machine-based terms equals the MSU-rated capacity of the machines where the IBM Z IPLA program executes.

For more information on mainframe MSU-rated capacities, see *The IBM z Systems Machines Exhibit*, (Z125-3901), or visit the Mainframes section of the IBM Z Exhibits website.

For additional information for products with reference-based terms, IBM Z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the IBM Z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex^(R). You may have one or more different environments across the enterprise. To determine the required license capacity for each IBM Z IPLA program with referenced-based terms, each environment should be assessed separately.

When an IBM Z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the IBM Z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one where MLC pricing is aggregated across the sysplex.

Sub-capacity eligibility

To be eligible for sub-capacity charging on select IBM Z IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be IBM Z (or equivalent). On that machine:

- All instances of the OS/390^(R) operating system must be migrated to the z/OS operating systems.
- Any licenses for the OS/390 operating system must be discontinued.
- All instances of the z/OS operating systems must be running in z/Architecture^(R) (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, see the [IBM System z Software Pricing](#) website.

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the *IBM Customer Agreement - Attachment for z Systems Workload License Charges*, (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the *IBM Customer Agreement - Attachment for EWLC, TWLC, zELC, and z/OS.e License Charges*, (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - *Amendment for Amendment for IBM z Systems Programs Sub-Capacity Pricing*, (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous IBM Z IPLA sub-capacity terms and conditions.

Sub-capacity utilization determination

Sub-capacity utilization is determined based on the utilization of a sub-capacity eligible reference product and machine.

On/Off CoD

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for IBM z Systems On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

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

For additional information and current prices, contact your local IBM representative.

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.

IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified clients to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all client segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or go to the [IBM Global Financing](#) website for more information.

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Order now

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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

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Note: Shipments will begin after the planned availability date.

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[IBM United States](#)

Corrections

(Corrected on November 15, 2018)

The Publication section is revised.

(Corrected on October 26, 2018)

The Key prerequisites and Software requirements sections are revised.