

# IBM Migration Utility for z/OS, 5.1 delivers XML and JSON support for IBM Enterprise COBOL 6 and updated macro language support

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## At a glance

IBM<sup>(R)</sup> Migration Utility for z/OS<sup>(R)</sup>, 5.1 offers the following enhancements:

- Adds Extensible Markup Language (XML) and JavaScript Object Notation (JSON) support for IBM Enterprise COBOL for z/OS, 6
- Upgrades the COBOL reserved words table to comply with all z/OS COBOL compilers, including COBOL for z/OS, 6.3
- Adds ABEND Handler for z/OS COBOL versions 5.1, 5.2, 6.1, 6.2, and 6.3
- Adds support for HEX syntax on Common Conditional (Macro) Language (CCL1) statements
- Adds support for Report Modernization Utility (RMU) using the CA Easytrieve Plus syntax
- Provides support for IBM Db2<sup>(R)</sup> binary large objects (BLOBS) and character large objects (CLOBS)
- Supports the IBM Migration Utility Explorer 3.1 graphical user interface (GUI)

## Overview

Migration Utility for z/OS, 5.1 enables you to replace CA Easytrieve Plus and CA Easytrieve Classic compilers and runtime libraries. You can maintain your existing CA Easytrieve programs or write new CA Easytrieve programs without the CA Easytrieve license. CA Easytrieve compiler and runtime libraries are not needed.

Utilities are included for discovery, batch conversion, parallel testing, electronic output comparison, and program abend analysis that will help make migration quicker and easier and simplify deployment of output to web servers on IBM Z<sup>(R)</sup> and distributed platforms.

Migration Utility for z/OS, 5.1 helps make it easier to modernize mainframe programs and generated reports.

IBM COBOL XML and JSON statements can now be incorporated in your CA Easytrieve Plus programs.

Report Modernization Utility (RMU) can be deployed in CA Easytrieve Plus programs to modernize legacy reports produced by CA Easytrieve Plus.

The standalone version of RMU can easily convert mainframe printer files to HTML and comma-separated values (CSV) files without modifying the originating legacy

programs. Mainframe printer files can be converted automatically to HTML for use with web browsers and can be automatically routed to a z/OS web server. A script language can be used to further customize and enhance the output, with control of fonts, colors, and images.

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## Key requirements

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Operating environment: Supported IBM z/OS operating system

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## Planned availability date

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October 30, 2020

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## Description

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Migration Utility for z/OS, 5.1 reads CA Easytrieve language statements, converts them to a neutral meta-format statements, generates standard IBM COBOL statements, compiles (and optionally saves), and executes the compiled IBM COBOL code. This is all done invisibly to users.

Additionally, Migration Utility supports several native IBM COBOL statements that make it more powerful than CA Easytrieve Plus. These IBM COBOL statements are integrated with CA Easytrieve Plus source to provide additional programming power if needed. Statements can be added to existing or new CA Easytrieve Plus programs.

With XML support in Migration Utility for z/OS, 5.1 users can use XML features supported by IBM COBOL including the capability to:

- Produce XML reports using PRINTER files
- Parse an XML buffer or file
- Publish XML documents and XML reports to z/OS Unix server

With JSON support in Migration Utility for z/OS, V5.1, users can use JSON features supported by z/OS Enterprise IBM COBOL V6.1, or later, to:

- Produce JSON reports using PRINTER files
- Parse a JSON buffer or file
- Publish JSON documents and JSON reports to z/OS Unix server
- Generate CA Easytrieve Plus field definitions from JSON script files for JSON PARSE

Migration Utility for z/OS, 5.1 provides a number of useful tools to make the process of converting from CA Easytrieve Plus or CA Easytrieve Classic simpler, including:

- A Discovery utility that helps locate and centralize CA Easytrieve programs for use with the batch conversion utility and can locate jobs that use linked CA Easytrieve Plus programs
- Parallel test and electronic comparison utilities that can significantly reduce the effort required to convert programs and compare outputs to support successful conversion
- An RMU that converts mainframe printer files (reports) to HTML and CSV files

The solution can enhance debugging and abend analysis by:

- Improving program debugging because programs run as IBM COBOL modules
- Identifying the failing portions of the original CA Easytrieve source program to enable any corrections to be made more quickly and easily

Following are additional new and improved features:

- Additional Migration Utility translator options for CA Easytrieve Plus and CA Easytrieve Classic to ensure the most compatible outcome
- Increased VSAM file record length for CA Easytrieve Plus programs to support more than 32 K
- Support for constants longer than 160 characters
- Enhanced FSDATSRV and FSDATSRV2 modules ROLL option to handle century leap properly for year 2100
- Support for 30-character Db2 column names
- Support for PARM DATE MMDDYY/DDMMYY/YMMMDD

### **Migration Utility Explorer 3.1**

Migration Utility Explorer is a standalone Eclipse-based IDE (Editor) environment that gives workstation users the capability to create, edit, and syntax check Migration Utility for z/OS programs. It enables you to work on mainframe tasks from your PC workstation, reducing the use of mainframe resources. You can edit and syntax check your program before submitting the job to run on your z/OS mainframe and compare files to review changes based on the time stamp or content.

Benefits of using Migration Utility Explorer 3.1 include:

- Multiple editor screens in GUI mode in which each edited program is a full screen
- Real-time syntax checking while in edit mode and the capability to view errors on each line in error, to avoid submission of jobs that would fail later
- Real-time help with the GUI display
- Full use of mouse capabilities and screen scrolling
- User-friendly FTP capabilities
- Capability to work on the client workstation, reducing IBM Interactive System Productivity Facility (ISPF) resources on z/OS
- Automatic archiving of changes
- Numerous dialogs to aid programmers
- Capability to submit jobs to z/OS and view job logs via IBM job entry subsystem (JES) interface

A publication has been created to provide details about how to utilize the XML and JSON capabilities. Visit the [IBM Migration Utility](#) product page and go to the Resource library to download the latest publications for Migration Utility for z/OS, 5.1, including the XML and JSON publication for generating and parsing XML and JSON documents.

Download the [IBM Migration Utility Explorer 3.1 GUI](#).

### **Section 508 of the US Rehabilitation Act**

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Migration Utility for z/OS, 5.1 is capable as of October 30, 2020 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**

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Value Unit pricing for eligible IBM Z IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each IBM Z 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 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**. 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 IPLA 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 IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each IBM Z 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, 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 IPLA program you selected, see the Terms and conditions section.

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## Program number

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Program number	VRM	Program name
5698-MG5	5.1.0	IBM Migration Utility for z/ OS

  

Program number	Subscription and Support Program number
5698-MG5	5655-I32

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## Offering Information

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

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## Business Partner information

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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 IBMid).

[BP Attachment for Announcement Letter 220-387](#)

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## Publications

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The Program Directory for IBM Migration Utility for z/OS (GI13-4380) and the Agreements and License Information CD (LC27-9084) are shipped automatically with the basic machine-readable material. No other hardcopy publications are shipped with the product.

The following optional publications will be available after product availability on the [IBM Publications Center](#) website:

- *IBM Migration Utility for z/OS Installation, User's Guide and Reference* (SC27-9082-00)
- *IBM Migration Utility for z/OS Generating and Parsing XML and JSON documents* (SC27-9083-00)

Visit the [IBM Migration Utility](#) product page and go to the Resource library to download the latest publications for IBM Migration Utility for z/OS, 5.1, including the publication for generating and parsing XML and JSON documents.

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## Services

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### Software Services

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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. Also, IBM extends the reach of IBM Software Services through IBM Business Partners to provide an extensive portfolio of capabilities. 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.

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## Technical information

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### Specified operating environment

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#### **Hardware requirements**

Migration Utility for z/OS, 5.1 operates on any IBM Z server that runs the required z/OS software.

#### **Software requirements**

z/OS 2.3, or later, supported z/OS operating system

#### **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

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#### **Packaging**

This offering is available from [IBM Marketplace](#). On IBM Marketplace, you can discover, try, and buy software, hardware, and services from IBM and third-party providers.

IBM Migration Utility for z/OS is distributed with the following content:

- Basic machine-readable material
- Program Directory
- Proof of Entitlement
- IBM International Program License Agreement (IPLA)
- License Information document

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## Ordering information

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Consult your IBM representative.

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

Program number	Program name	Value Unit exhibit
5698-MG5	IBM Migration Utility for z/OS, 5.1	VUE007

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

### 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 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, go to the [Shopz](#) website.

## Charge metric

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

Program identifier	License Information document title	License Information document number
5698-MG5	IBM Migration Utility for z/OS	L-MEMS-B4HTG4

Use the Insert link icon to insert the LI number and then delete the prompt and braces.

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
Tier A	4-45	0.45
Tier B	46-175	0.36
Tier C	176-315	0.27
Tier D	316 or greater	0.2

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 Migration Utility for z/OS 5.1

#### Program ID: 5698-MG5

Entitlement identifier	Description	License option/Pricing metric
S018JC6	IBM Migration Utility for z/OS, 5.1	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	Description	Language
S018JC7	IBM Migration Utility for z/OS, 5.1	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: 5655-I32

Entitlement identifier	Description	License option/Pricing metric
S00WI2B	IBM Migration Utility for z/OS S&S	Decline Subscription and Support No Charge Value Units MultiVersion Measurement S&S No Charge Value Units

Entitlement identifier	Description	License option/Pricing metric
		SW Subscription and Support Annual Support Charge Value Units
		SW Subscription and Support Monthly Support Charge Value Units
		Software S&S Registration (minus Supply right) No Charge Per MSU
Orderable supply ID	Description	Language
S00WL2D	IBM Migration Utility for z/OS Subscription and Support	English US

### 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 ID referenced above and the appropriate license or charge option.

IBM is also 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.

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 ICA IBM 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.

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.

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## Terms and conditions

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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<sup>(R)</sup> Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

### Licensing

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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

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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)

These programs are 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. 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

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

Program identifier	License Information document title	License Information document number
5698-MG5	IBM Migration Utility for z/OS	L-MEMS-B4HTG4

Use the Insert link icon to insert the LI number and then delete the prompt and braces.

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

### Limited warranty applies

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Yes

### Limited warranty

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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).

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### **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.

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### **Volume orders (IVO)**

No

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### **Passport Advantage applies**

No

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### **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**

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Yes

### **Variable charges apply**

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No

### **Educational allowance available**

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

### **Multi-Version Measurement**

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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**

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For each z Systems<sup>(R)</sup> 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 Systems 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 z Systems IPLA program you selected, see the Ordering information section.

<b>Program number</b>	<b>Program name</b>	<b>Terms</b>	<b>Parent, if applicable</b>
5698-MG5	IBM Migration Utility	Execution-based	N/A

### **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 a z Systems<sup>(R)</sup> IPLA program with these terms equals the MSU-rated capacity of the machines where the z Systems IPLA program executes.

For more information on mainframe MSU-rated capacities, go to the [IBM System z<sup>\(R\)</sup> Software Contracts](#) website.

Reference based: The required license capacity of a z Systems 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 a z Systems IPLA sub-capacity program with these terms equals the capacity of the LPARs where the z Systems IPLA program executes.

z/OS based: The required license capacity of a z Systems IPLA program with these terms equals the license capacity of z/OS on the machines where the z Systems IPLA program executes.

Reference based: The required license capacity of a z Systems 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 a z Systems IPLA program with full machine based terms equals the MSU-rated capacity of the machines where the z Systems IPLA program executes.

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

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

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

When a z Systems IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the z Systems 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 z Systems 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 z Systems (or equivalent). On that machine:

- All instances of the OS/390 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<sup>(R)</sup> (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, go to 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 z Systems IPLA sub-capacity terms and conditions.

### **Sub-capacity utilization determination**

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Sub-capacity utilization is determined based on the product's own execution as reported to IBM in accordance with the requirements for reporting sub-capacity utilization for products.

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## **Statement of good security practices**

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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.

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## **Prices**

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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**

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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.

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government clients. Rates are based on a client's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

Financing from IBM Global Financing helps you preserve cash and credit lines, enables more technology acquisition within current budget limits, can help accelerate implementation of economically attractive new technologies, offers payment and term flexibility, and can help match project costs to projected benefits. Financing is available worldwide for credit-qualified clients.

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## **Order now**

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To order, contact the IBM Digital Sales Center, your local IBM representative, or your IBM Business Partner. To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968). For more information, contact the IBM Digital Sales Center.

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

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