

# IBM CL/SuperSession for z/OS 3.1 improves High Availability Option configuration, simplifies customization, and provides XML support

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## At a glance

IBM CL/SuperSession for z/OS 3.1 includes the following enhancements:

- Installation is simplified for clients installing CL/SuperSession when an IBM OMEGAMON product is already installed; both products can now be installed in the same System Modification Program Extended (SMP/E) zone.
- High Availability Option (HAO) is enhanced to make the configuration process easier and quicker.
- Profiles and system access data showing historical user access information can now be downloaded in XML format for offline viewing.
- Network Accounting Facility (NAF) records on network and application access, typically routed to SMF, are now available to administrators for near real-time viewing or exporting to a file.
- Additional options for sorting the session list are provided for easier navigation and quicker access.
- Records of status messages presented to each user are now available to administrators to aid in troubleshooting user problems.

## Overview

CL/SuperSession for z/OS 3.1 is a mainframe session management solution that provides security-rich, controlled, and concurrent access to multiple z/OS applications from a single 3270 interface. CL/SuperSession for z/OS 3.1 enables you to:

- Control and customize access to multiple applications concurrently from a single 3270 terminal
- Utilize the help desk capabilities to monitor and perform actions related to users and virtual sessions
- Control application access with customized menus for specific users or groups

CL/SuperSession for z/OS<sup>(R)</sup> 3.1 supports a basic connection to a target telnet server over a TCP/IP network enabling connection from CL/SuperSession for z/OS 3.1 to servers beyond the sysplex or Enterprise Extender boundaries to, for instance, a target IBM<sup>(R)</sup> z/VM<sup>(R)</sup> stack or an IBM z/OS telnet server to connect to Time Sharing Option (TSO) or CICS<sup>(R)</sup>.

CL/SuperSession for z/OS 3.1 enables multiple-logout users to see and switch to active applications from all their logged-in sessions. A runtime option has been introduced, and when specified, permits all of the active virtual sessions of a user to be available to any sub-logout via the MLTLOGON option, regardless of which of those logons the virtual session originated.

Using the **VSHOW** command, you can display the status of users who might be connected or disconnected. The **VSHOW** command provides additional information, including the date and time the specified user connected, the date and time the user disconnected, and the hours, minutes, seconds, or days the user has been disconnected when specifying a new keyword called **DSTATS**.

With CL/SuperSession for z/OS 3.1, you can install the solution in the same SMP/E zone to IBM Tivoli Management Services and IBM OMEGAMON products.

Terminal mapping for CICS users for easier one-time customization is available.

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## Key requirements

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Operating environment: Currently supported IBM z/OS operating system

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## Planned availability date

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November 20, 2020

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## Description

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CL/SuperSession for z/OS 3.1 offers greater installation options by removing the SMP/E zone conflict, unified HAO and non-HAO dialogs, improved user administration, and XML support. Following are enhancements to CL/SuperSession for z/OS 3.1.

### *Renamed KLV and KLU modules and their corresponding PARM members*

- To comply with IBM-wide single-CSI support, CL/SuperSession Engine elements have been renamed from KLVxxxxx and KLUxxxxx to KLKxxxxx and KLJxxxxx.
- Most importantly, this means that any configuration parameters in your **TLVPARM** concatenation will need to be renamed appropriately, for instance, from KLVINNAM to KLKINNAM.
- The Messages manual has been updated to reflect the changes to the messages.
- Renaming these modules and eliminating duplicate member names enables clients to install CL/SuperSession or z/OS 3.1 in the same SMP/E zone as OMEGAMON and other products that use IBM CT/Engine.
- Currently, CL/SuperSession or z/OS 3.1 must be installed in a separate SMP/E zone.

### *Unified HAO and non HAO dialog panels*

- Single-source HAO dialogs and non-HAO dialogs reduce duplication and streamline the HAO configuration.

### *A new format SYSTEM.ACCESS.TABLE*

- The SYSTEM.ACCESS.TABLE is a persistent table used to trace user access, fundamentally, for profile reporting.
- Access to this data is available through two admin options: Unload SYSTEM.ACCESS.TABLE (to XML) and SYSTEM.ACCESS.TABLE console.

### *Table, profile, report unload and load utilities*

- A panel of features under the admin menu option [Table and Profile Utilities (P)...] replaces the legacy Profile Reporting (P)... menu item, which has been moved to the submenu. The following options are available:
  - Unload SYSTEM.ACCESS.TABLE: to convert the SYSTEM.ACCESS.TABLE.V3 to XML for offline viewing.
  - SYSTEM.ACCESS.TABLE console: to interactively view the SYSTEM.ACCESS.TABLE.V3 using various filters.
  - Unload NAF data for current runtime: to view and offload the cached Network Accounting Facility (NAF) records.
  - Unload user profiles (linear): to view and offload user profile information for offline review batch delete.
  - Unload sessions (linear): to view and offload user session information for offline review and batch delete.
  - Load sessions: to process modified linear data.
  - Load users: to process modified linear data.

#### *Table load and unload using XML format*

- This feature gives users the capability to download profiles, profile reports, and system access data in XML format for viewing in Excel and other tools.

#### *Route NAF data to a table for real-time viewing, export, or both*

- Current captured data (VSHOW, HD, Access Table) is clumsy and subject to one-offs.
- Real-time usage and accounting information can report without SMF or having to shut down the address space.

#### *Provide standard SAMPLIB terminal mapping for CICS users*

- Improved customization efficiency and less customization means less migration cost and total cost of ownership (TCO).

#### *Write USER messages to the TLVLOG, rather than STC messages only*

- Examples:
  - User abc signed on at terminal xyz
  - User abc is locked at terminal
- Provides a record of user activity to help administrators troubleshoot problems

### **Value Unit-based pricing**

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Value Unit pricing for eligible IBM Z<sup>(R)</sup> 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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## Reference information

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For more information about CL/SuperSession for z/OS, see Software Announcement [ZP15-0488](#), dated December 8, 2015.

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## Program number

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Program number	VRM	Program name
5698-CL3	3.1	IBM CL/SuperSession for z/OS
Program PID number	Subscription and Support PID number	
5698-CL3	5655-P06	

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## Offering Information

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

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## Publications

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The Program Directory for CL/SuperSession for z/OS and the Agreements and License Information CD 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 in the [IBM Publications Center](#):

Publication name	Publication number
IBM CL/SuperSession for z/OS Customization Guide	SC27-9812
IBM CL/SuperSession for z/OS Basic Configuration Guide	SC27-9813
IBM CL/SuperSession for z/OS Messages Manual	SC27-9814
IBM CL/SuperSession for z/OS User's Guide	SC27-9815

<b>Publication name</b>	<b>Publication number</b>
IBM CL/SuperSession for z/OS Problem Determination Guide	GC27-9816
IBM CL/SuperSession for z/OS Operator's Guide	GC27-9817
IBM CL/SuperSession for z/OS SSPL Programming Guide	GC27-9818
IBM CL/SuperSession for z/OS SSPL Reference Manual	GC27-9820

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## Services

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### **Global Technology Services**

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Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

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## Technical information

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### **Specified operating environment**

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#### **Hardware requirements**

DL/SuperSession for z/OS operates on any IBM Z server that runs the required z/OS software.

#### **Software requirements**

z/OS V2.2, or later, supported z/OS operating system (5650-ZOS)

#### **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 CL/SuperSession 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-CL3	IBM CL/SuperSession for z/OS	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.

Program number	Program name
5698-CL3	CL/SuperSession for z/OS
5655-P06	CL/SuperSession for z/OS Software Subscription and Support

#### 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-CL3	IBM CL/SuperSession for z/OS	<a href="#">L-MEMS-BTKS3K</a>

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 CL/SuperSession for z/OS

**Program ID:** 5698-CL3

Entitlement identifier	Description	License option/Pricing metric
S018JKH	IBM CL/SuperSession for z/OS	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
S018JJK	IBM CL/SuperSession for z/OS	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-P06

Entitlement identifier	Description	License option/Pricing metric
S011PXD	IBM CL/SuperSession for z/OS 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 Software S&S Registration (minus Supply right) No Charge Per MSU
Orderable supply ID	Description	Language
S011R2R	IBM CL/SuperSession for z/OS S&S	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**

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Product deliverables are shipped only through CBPDO, ServerPac, SystemPac, FunctionPac, and ProductPac<sup>(R)</sup>.

These customized offerings are offered for internet delivery from Shopz. 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, SystemPac, FunctionPac, and ProductPac the month following their availability in CBPDO. z/OS can be ordered through CBPDO, ServerPac, and SystemPac 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, SystemPac, FunctionPac and ProductPac shipments will begin four weeks after the planned availability date due to additional customization, and data input verification.

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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).

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### Software Maintenance

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

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

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 Operational Support Services - Support Line is an option if you desire added services.

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### 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-CL3	IBM CL/SuperSession for z/OS	<a href="#">L-MEMS-BTKS3K</a>

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.

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### Limited warranty applies

Yes

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### Limited warranty

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

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

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

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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.

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

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No

### **Passport Advantage applies**

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No

### **Software Subscription and Support applies**

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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 - Support Line**

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Yes

### **Variable charges apply**

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No

### **Educational allowance available**

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Yes. When ordering through the program number process, a 15% education allowance applies to qualified education institution clients.

Education Software Allowance Program applies when ordering through the program number process.

### **ESAP available**

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Yes, to qualified 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-CL3	IBM CL/ SuperSession for z/OS	z/os-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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For all local charges, contact your IBM representative.

### **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.

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## **Announcement countries**

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All European, Middle Eastern, and African countries, except Islamic Republic of Iran, Sudan, and Syrian Arab Republic.

### ***Trademarks***

IBM, z/OS, z/VM, CICS, Global Technology Services, Passport Advantage, IBM Z, ProductPac, z Systems, System z, IBM z Systems, Parallel Sysplex and z/Architecture are registered trademarks of IBM Corporation in the United States, other countries, or both.

Other company, product, and service names may be trademarks or service marks of others.

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[Terms of use](#)

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

[IBM Directory of worldwide contacts](#)