IBM CL/SuperSession for z/OS, V2.1 delivers a High Availability Option and enhanced passphrase support

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At a glance

IBM(R) CL/SuperSession for z/OS(R), V2.1 provides efficient management of VTAM(R) sessions for mainframe applications and offers the following benefits:

- Simple scripting language provides rich tailoring for flexible user access to applications.
- Passphrase support up to 100 characters to help to provide richer security options.
- Synchronization of profile tables when running in Parallel Sysplex(R) environments provides greater availability.
- Real time management of resources across LPARs.
- Simplifies workload management.
- Load balancing and session reconnection by using VTAM generic resources.

For ordering, contact your IBM representative or an IBM Business Partner. For more information, contact the Americas Call Centers at: 800-IBM-CALL (426-2255).
Reference: LE001

Overview

CL/SuperSession for z/OS is an IBM z Systems(TM) 3270 session manager that provides a security-rich environment and concurrent access to multiple applications from a single 3270 terminal. It can help your clients control application access with customized menus for specific users or groups. Your clients can move between active applications with a single keystroke to help increase efficiency and management of applications. CL/SuperSession provides the flexibility to consolidate applications that are difficult to use, customize user security profiles, and get access to data from multiple sessions.

Version 2.1 enhancements include:

- Ability to monitor critical resources and allows administrators to provide assistance to users
- Screen customization support for:
  - Logon
  - Menu selection
  - Broadcast information
  - Network news
- Application help facilities
- Error notification
- Support for an HAO to automatically maintain synchronized profile databases and the use of VTAM generic resources for automatic load-balancing and enhanced availability in a Parallel Sysplex environment
- Increased length of a passphrase for greater security
- Simplified and improved installation process

Key prerequisites

IBM z Systems processor, which includes IBM z13™, IBM zEnterprise™, and IBM z10™, or an equivalent hardware server that is capable of running a currently supported level of z/OS.

For details, refer to the Technical Information section.

Planned availability date

December 11, 2015

Description

CL/SuperSession for z/OS, V2.1 now provides:
- Improved centralized administration and resource management to:
  - Customize user panels and menus.
  - Control user access to certain features.
- New customization features that allow users to:
  - Update authorities, group profiles, session timeouts, and available sessions.
  - Display applications according to security profiles.
  - Automatically log on to specific applications.
  - Assign users to groups, based on required applications.
  - Move easily between applications by using a hot key or phrase.
  - Split emulator screens into multiple display spaces.
- HAO support requires only a simple VTAM connection between CL/SuperSession address spaces allows:
  - Two or more copies of CL/SuperSession to automatically maintain synchronized profile databases
  - Profile updates to be propagated to linked copies of CL/SuperSession automatically at a user-specified interval, such as hourly
  - A remote CL/SuperSession to be automatically retried until successful, if is not available or an update does not complete successfully
  - Reconnecting the user to the HelpDesk when logging onto another CL/SuperSession
  - The use of VTAM Generic Resources for automatic load-balancing and enhanced availability in a Parallel Sysplex environment
  - Multi-point HelpDesk that provides enhanced, single-point control for multiple copies of CL/SuperSession
    -- Empowers the help desk facility on any system to manage the users of, and issue commands to, all connected systems.
    -- The help desk facility on each copy of CL/SuperSession can operate autonomously for maximum availability.
-- Allows broadcast messages to be targeted for groups across all connected systems.

- Passphrase support allows greater security as compared to a conventional, 8-character password. It allows a user to select a phrase of up to 100 characters, in concert with changes to the External Security Manager that permits:
  - A CL/SuperSession control point that can be individually configured to allow this new function
  - A user to logon to CL/SuperSession with a password, a passphrase, or both
  - A selectable application that uses an initial dialog to determine, if a password is acceptable or if security requirements dictate, the use of the longer passphrase
  - Dynamic acceptance by TSO and CICS(R), of either set of credentials with new sample initial dialogs
- The capability to order CL/SuperSession for z/OS, V2.1 and also program service from Shopz.

For more information about CL/SuperSession, refer to

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**Reference information**

For additional information on CL/SuperSession, refer to IBM Software Announcement 205-066, dated March 15, 2005.

**Program number**

<table>
<thead>
<tr>
<th>Program number</th>
<th>VRM</th>
<th>Program name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5601-B28</td>
<td>2.01.0</td>
<td>CL/SuperSession for z/OS</td>
</tr>
<tr>
<td>5655-P06</td>
<td>1.00.0</td>
<td>CL/SuperSession for z/OS S&amp;S</td>
</tr>
</tbody>
</table>

**Product identification number**

<table>
<thead>
<tr>
<th>Program PID number</th>
<th>Subscription and Support PID number</th>
</tr>
</thead>
<tbody>
<tr>
<td>5601-B28</td>
<td>5655-P06</td>
</tr>
</tbody>
</table>

**Offering Information**

Product information is available via the Offering Information website
http://www.ibm.com/common/ssi

**Business Partner information**

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(R) ID and password are required (use IBM ID).

BP Attachment for Announcement Letter 215-356

**Publications**

The following publications are available in Adobe(TM) PDF format in the IBM Publications Center and can be viewed or downloaded free of charge.
<table>
<thead>
<tr>
<th>Title</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM CL/SuperSession for z/OS, V2.1</td>
<td>SC27-4583</td>
</tr>
<tr>
<td>Configuration Guide</td>
<td></td>
</tr>
<tr>
<td>IBM CL/SuperSession for z/OS, V2.1</td>
<td>SC27-4584</td>
</tr>
<tr>
<td>Customization Guide</td>
<td></td>
</tr>
<tr>
<td>IBM CL/SuperSession for z/OS, V2.1 SSPL</td>
<td>SC27-4585</td>
</tr>
<tr>
<td>Reference Manual</td>
<td></td>
</tr>
<tr>
<td>IBM CL/SuperSession for z/OS, V2.1</td>
<td>SC27-4586</td>
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<tr>
<td>Messages</td>
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</tr>
<tr>
<td>IBM CL/SuperSession for z/OS, V2.1</td>
<td>SC27-4587</td>
</tr>
<tr>
<td>Operator's Guide</td>
<td></td>
</tr>
<tr>
<td>IBM CL/SuperSession for z/OS, V2.1</td>
<td>SC27-4588</td>
</tr>
<tr>
<td>Problem Determination Guide</td>
<td></td>
</tr>
<tr>
<td>IBM CL/SuperSession for z/OS, V2.1 SSPL</td>
<td>SC27-4589</td>
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<td>Programming Guide</td>
<td></td>
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<tr>
<td>IBM CL/SuperSession for z/OS, V2.1</td>
<td>SC27-4590</td>
</tr>
<tr>
<td>User's Guide</td>
<td></td>
</tr>
<tr>
<td>IBM CL/SuperSession for z/OS, V2.1</td>
<td>GI13-2935</td>
</tr>
<tr>
<td>Program Directory</td>
<td></td>
</tr>
<tr>
<td>IBM CL/SuperSession for z/OS, V2.1</td>
<td>GI13-2934</td>
</tr>
<tr>
<td>License information</td>
<td></td>
</tr>
</tbody>
</table>
| The IBM Publications Center portal is located at

http://www.ibm.com/shop/publications/order

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

CL/SuperSession for z/OS documentation is planned to be available in IBM Knowledge Center in second quarter, 2016. IBM Knowledge Center is the new home for IBM product documentation. You can customize Knowledge Center to design the experience that you want with the technology, products, and versions that you use and by creating your own collection of documents, and you can also interact with IBM and with your colleagues.

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 or to contact a Software Services sales specialist, visit

http://www.ibm.com/software/sw-services/

Technical information

Specified operating environment

Hardware requirements
IBM z Systems processor, which includes IBM z13, IBM zEnterprise, and IBM z10, or an equivalent hardware server.

**Software requirements**

CL/SuperSession requires one of the following currently supported operating systems:

- z/OS V2.2
- z/OS V2.1
- z/OS V1.13

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language. Such information is provided subject to the following Statement of Good Security Practices: IT system security involves protecting systems and information through prevention, detection and, response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, misappropriated, or misused, or can result in damage to or misuse of your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service, or security measure can be completely effective in preventing improper use or access. IBM systems, products, and services are designed to be part of a lawful, 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.

**Planning information**

**Packaging**

The CL/SuperSession for z/OS, V2.1 product package includes the following:

<table>
<thead>
<tr>
<th>Program Directory</th>
<th>GI13-2935</th>
</tr>
</thead>
<tbody>
<tr>
<td>License Information CD</td>
<td>GI13-2934</td>
</tr>
</tbody>
</table>

**Security, auditability, and control**

CL/SuperSession uses the security and auditability features of the host hardware or software.

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

**Ordering information**

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

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
<th>Value Unit exhibit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5601-B28</td>
<td>CL/SuperSession</td>
<td>VUE007</td>
</tr>
</tbody>
</table>

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**. 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

**Value Unit exhibit VUE007**

<table>
<thead>
<tr>
<th>MSUs minimum</th>
<th>MSUs maximum</th>
<th>Value Units/MSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>1</td>
<td>3</td>
</tr>
<tr>
<td>Tier A</td>
<td>4</td>
<td>45</td>
</tr>
<tr>
<td>Tier B</td>
<td>46</td>
<td>175</td>
</tr>
<tr>
<td>Tier C</td>
<td>176</td>
<td>315</td>
</tr>
<tr>
<td>Tier D</td>
<td>316</td>
<td>+</td>
</tr>
</tbody>
</table>

**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:

**Translation from MSUs to Value Units**

<table>
<thead>
<tr>
<th>MSUs</th>
<th>Value Units/MSU</th>
<th>Value Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base 3</td>
<td>1.00</td>
<td>3.00</td>
</tr>
<tr>
<td>Tier A 42</td>
<td>0.45</td>
<td>18.90</td>
</tr>
<tr>
<td>Tier B 130</td>
<td>0.36</td>
<td>46.80</td>
</tr>
<tr>
<td>Tier C 140</td>
<td>0.27</td>
<td>37.80</td>
</tr>
<tr>
<td>Tier D 1,185</td>
<td>0.20</td>
<td>237.00</td>
</tr>
</tbody>
</table>

Total 1,500 343.50

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

**ESW trade-up - Ordering information**

Current licensees of IBM Session Manager for z/OS (5655-U98) with active Subscription and Support (5655-J98) are eligible to trade-up to the IPLA replacement program, IBM CL/SuperSession for z/OS, V2.1 (5601-B28). All IPLA replaced program entitlements being traded in must be terminated. In some cases, the IPLA replaced program entitlements may not be the same as the IPLA replacement program entitlement. For example, if the licensee has 100 Value Units entitlement of the IPLA replaced Program A and is trading up to 90 Value Units of entitlement to the IPLA replacement program, the licensee must terminate all 100 Value Units entitlement of the IPLA replaced Program A. Current licensees interested in trading up should contact their IBM representative or IBM Business Partner.

Program name: IBM CL/SuperSession for z/OS, V2.1

Program PID: 5601-B28
Charge metric

<table>
<thead>
<tr>
<th>Program name</th>
<th>PID number</th>
<th>Charge metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>CL/SuperSession</td>
<td>5601-B28</td>
<td>Value Unit</td>
</tr>
</tbody>
</table>

**Basic license**

**On/Off CoD**

CL/SuperSession is eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

**Program name:** CL/SuperSession for z/OS, V2.1

**Program PID:** 5601-B28

<table>
<thead>
<tr>
<th>Entitlement identifier</th>
<th>Description</th>
<th>License option/Pricing metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>S017VMB</td>
<td>CL/SuperSession for z/OS</td>
<td>Basic OTC, Per MSU-day TUC</td>
</tr>
</tbody>
</table>

Translation from MSUs to Value Units

<table>
<thead>
<tr>
<th></th>
<th>MSUs</th>
<th>Value Units/MSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>1-3</td>
<td>1.00</td>
</tr>
<tr>
<td>Tier A</td>
<td>4-45</td>
<td>.45</td>
</tr>
<tr>
<td>Tier B</td>
<td>46-175</td>
<td>.36</td>
</tr>
<tr>
<td>Tier C</td>
<td>176-315</td>
<td>.27</td>
</tr>
<tr>
<td>Tier D</td>
<td>316+</td>
<td>.20</td>
</tr>
</tbody>
</table>

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

**Program name:** CL/SuperSession for z/OS, V2.1

**Orderable supply ID:** 5601-B28

<table>
<thead>
<tr>
<th>Entitlement identifier</th>
<th>Description</th>
<th>License option/Pricing metric</th>
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</thead>
<tbody>
<tr>
<td>S017VM9</td>
<td>US English</td>
<td>3590 tape cartridge</td>
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**Subscription and Support PID:** 5655-P06

<table>
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<th>Description</th>
<th>License option/Pricing metric</th>
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<tbody>
<tr>
<td>S011PXD</td>
<td>CL/SuperSession for z/OS</td>
<td>Basic ASC, per Value Unit SW S&amp;S</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No charge, decline SW S&amp;S</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Per MSU SW S&amp;S Registration</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Orderable supply ID</th>
<th>Language</th>
<th>Distribution medium</th>
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</thead>
<tbody>
<tr>
<td>S011R2R</td>
<td>US English</td>
<td>Hardcopy publication</td>
</tr>
</tbody>
</table>

**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 ICA S/390™ and z Systems™ 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 via CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where Shopz product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the Shopz help information at

http://www.software.ibm.com/ShopzSeries

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options include:

- 3590
- 3592

Most products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered via 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, visit the Help section on the Shopz website at

http://www.software.ibm.com/ShopzSeries

For additional information on the Product ServerPac option, refer to Software Announcement 212-272, dated July 7, 2012.

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 two 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\textsuperscript{(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.

**Agreement for Acquisition of Software Maintenance**

IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Software Subscription and Support (Software Maintenance) and does not require customer 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 Systems Operational Support Services - SoftwareXcel is an option if you desire added services.

**License Information number**

GI13-2934

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, consult the IBM Software Support Handbook found at

http://www.ibm.com/support/handbook

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

**Program support**

Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months’ notice.
Money-back guarantee

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

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

No

Usage restriction

Yes

Value Units

The terms of the hardcopy License Information document, delivered with the program package, supersede the terms of the license information displayed during installation of the product.

Software Subscription and Support applies

Yes. During the S&S 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 via telephone or electronically to address suspected Program defects. Technical assistance is available from the IBM support center in the Customer's geography.

Additional details regarding Technical Assistance, that includes IBM contact information, are provided in the IBM Software Support at http://www.ibm.com/support/handbook

S&S does not include assistance for:

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

S&S 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, visit

http://www.ibm.com/services/sl/products

IBM Operational Support Services - SoftwareXcel

Yes

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

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

Sub-capacity terms and conditions

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. 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, refer to the Ordering information section.

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
<th>Terms</th>
<th>Parent, if applicable</th>
</tr>
</thead>
<tbody>
<tr>
<td>5601-B28</td>
<td>CL/SuperSession for z/OS</td>
<td>z/OS-based</td>
<td>Not applicable</td>
</tr>
</tbody>
</table>

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 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, refer to


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, refer to *The IBM z Systems 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. 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™ (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, visit the z Systems Software Pricing website

http://www.ibm.com/systems/z/resources/swprice/
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**

Sub-capacity utilization is determined based on the utilization of an eligible operating system and machine (for example, z/OS running in z/Architecture (64 bit) mode on a z Systems ((or equivalent) server).

**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 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 lawful, 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**

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