

# IBM Session Manager for z/OS V2.1 delivers high-application availability and near-continuous operations

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## At a glance

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IBM Session Manager for z/OS is a terminal session manager, offering highly-available, secure, and user-friendly access:

- Multiple concurrent virtual sessions from single, secure sign on
- Support for SNA or TCP/IP networks
- Simultaneously connection to multiple VTAM and TCP/IP applications
- Switch between sessions with ease
- Powerful scripting capability
- Wide range of tools and facilities

New in IBM Session Manager for z/OS V2.1:

- Session recovery following planned or unplanned outage
- ESM security check for ACB and Terminal names
- Mixed case passwords and password change facility
- INQINTERVAL processing
- Help Desk
- Usability and scripting enhancements
- Customer requirements

### For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

**800-IBM-CALL** Reference: LE001

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## Overview

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IBM Session Manager for z/OS® V2.1 (Session Manager) has added a significant enhancement with the ability to recover active sessions in the event of a planned or unplanned outage providing much greater resilience and flexibility. These high-application availability and near-continuous operations capabilities employ the System z™ Coupling Facility and build on the load-balancing capabilities previously delivered through the service channel.

Session Manager is a VTAM® or TCP/IP session manager, offering secure and user-friendly access to multiple z/OS systems from a single 3270 terminal. It gives users a single secure sign on, and then allows access to all their applications from multiple concurrent virtual sessions, with a wide range of tools and facilities. The 3270 terminal session can exist on either an SNA or a TCP/IP network, and the terminal session

can simultaneously connect to and navigate between multiple VTAM and TCP/IP applications.

Users can switch between sessions with ease. From the menu the user can point and click to create a new session to another VTAM or TCP/IP application. Session Manager delivers greater user productivity, enhanced system usage, increased security, reduced costs, and improved communication.

New in Session Manager for z/OS V2.1

- Session recovery following planned or unplanned outage
- Usability and scripting enhancements
- Customer requirements

Additional new functional enhancements delivered in Session Manager for z/OS V2.1 include:

- External Security Manager (ESM) security check for Access Control Block (ACB) and Terminal names
- INQINTERVAL processing
- Mixed case passwords and password change facility
- Help Desk

Session Manager includes all the tools and facilities required to provide administration, security, systems and performance management, and also problem determination. It delivers many features and facilities that enable users to improve their productivity.

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## Key prerequisites

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z/OS V1.7, or later

## Planned availability date

October 5, 2007

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## Description

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Session Manager for z/OS is a VTAM or TCP/IP session manager, providing secure and user-friendly access to multiple z/OS systems from a single 3270 terminal. Many users in the course of their work need to switch between applications. Session Manager acts as an intermediary between the user and the applications. It gives the user a single secure signon, and then allows access to all their applications from multiple concurrent virtual sessions. Users can switch between sessions with ease, or from the menu, the user can point and click to create a new session to another VTAM or TCP/IP application.

Session Manager includes all the tools and facilities required to provide administration, security, systems and performance management, and also problem determination. It delivers many features and facilities that enable users to improve their productivity.

Session Manager V2.1 now has the ability to recover active sessions in the event of a planned or unplanned outage.

**Session Recoverability:** Delivers continuous session availability without data loss in the event of a session manager failure or planned outage. Sessions can be defined with three recoverability options. The first option is similar to that of previous releases of session manager.

- **RecoveryLevel None** — Where no recoverability is available for the session in the event of a session manager failure or a planned takeover. This option would be used for sessions that are not critical to the running of the customer's business.
- **RecoveryLevel Intermediate** — Allows recovery for application sessions in the event of the owning session manager failing in some way.
- **RecoveryLevel High** — Provides recovery for sessions in the event of failure of both the Session manager instance and the Session Manager instance and the Session Manager controller. This option could be used for customer's most critical applications.

Although the major change introduced into Session Manager V2.1 is the ability to recover active sessions in the event of a failure, either planned or unplanned, there are a number of enhancements introduced to improve the products usability.

- **ESM security check for ACB and terminal names:** The supplied E21 exit is enhanced so that once the user ID is verified, the external security manager verifies that the user has read access authority to the Session Manager ACB and terminal name. A number of new variables are introduced for ease of customization of this facility.
- **Change Password facility:** Enables the capability for changing a users password at some time other than at sign-on. Users can change their password in the external security manager through a session from the main menu. **Mixed case passwords:** Lets the external security manager support mixed case passwords.
- **INQINTERVAL processing:** Enhances INQINTERVAL ability to control the interval at which Session Manager checks on the status of applications for display on menu screens, resulting in improved CPU utilization.
- **Help Desk:** Gives help desk operators quick access to information about Session Manager users. The help desk provides a display list of users that can be selected individually. The selection will provide rapid access to session manager commands such as Query, Message, Spy, or Cancel.
- **Availability options:** Enhancements to the sysplex support for session recoverability options when running in parallel sysplex environments, introduced in Session Manager V1.3 PTF 3.

A single instance of session manager should be configured alongside a session manager standby instance and a session manager controller instance. The session manager standby instance acts as a session manager instance in its own right accepting signons from users while acting as a backup for the original session manager instance. This applies to the original instance of session manager which is configured as a standby for any other session manager in the sysplex. The session manager controller manages the synchronization of all session manager instances within the sysplex.

#### **Accessibility by people with disabilities**

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A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

The following features support use by people with disabilities:

- Operation by keyboard alone
- Optional font enlargement and high-contrast display settings
- Suitability for use by people with hearing impairment
- Capability to use with screen readers and magnifiers for those with visual impairment

Softcopy documentation for the product is provided in PDF format. This documentation supports optional font enlargement and high-contrast display settings, and may be operated by the keyboard alone. Fully accessible softcopy documentation, with alternative text for diagrams, will be made available on request.

#### **Section 508 of the U.S. Rehabilitation Act**

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Session Manager for z/OS V2.1 is capable as of October 5, 2007, 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.

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

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

For each System 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, visit the Value Unit Converter Tool Web site

<http://ibm.com/zseries/swprice/vuctool>

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

To determine the required license capacity for the System z IPLA program you selected, refer to the Terms and conditions section.

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## Product positioning

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Session Manager for z/OS V2.1 is intended for enterprise or medium-sized customers running a range of applications on mainframe systems, with users accessing these applications at 3270 terminals or workstations running 3270 emulators. The customers will probably be running CICS®, IMS™ or TSO or other 3270-oriented systems using VTAM, typically with 3270 connections, or TCP/IP. The product provides the end-users with a highly-available, simple, and effective way of accessing these applications seamlessly, together with a wide range of other valuable facilities.

### 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 IBM ID).

BP Attachment for Announcement Letter 207-200

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=207-200>

### Trademarks

System z and IMS are trademarks of International Business Machines Corporation in the United States or other countries or both.

z/OS, VTAM, eServer, and CICS are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

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

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## Offering Information

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Product information is available via the Offering Information Web site

<http://www.ibm.com/common/ssi>

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## Publications

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The following publications are available for Session Manager for z/OS® V2.1:

Title	Order number
Session Manager for z/OS V2.1 -- Installation and Getting Started	GC34-6783-00
Session Manager for z/OS V2.1 -- Technical Reference	SC34-6784-00
Session Manager for z/OS V2.1 -- Facilities Reference	SC34-6785-00
Session Manager for z/OS V2.1 -- Panels, Scripts and Variables	SC34-6786-00
Session Manager for z/OS V2.1 -- Messages and Codes	GC34-6787-00
Session Manager for z/OS V2.1 -- Online and Batch Administration	SC34-6789-00
Session Manager for z/OS V2.1 -- Quick Reference	SC34-6788-00
Session Manager for z/OS V2.1 -- Program Directory	GI 13-0520-00

Only the **program directory** is delivered in hardcopy. All other publications are available only in softcopy, in PDF format, by download from the IBM Publications Center at

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

Note that these Form Numbers are new with this release. Customers should check when downloading that they have the right publication for the level of product they are using.

Note also that the manuals **Installation and Getting Started** and **Quick Reference** are restructured and enhanced to improve usability.

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## Technical information

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**Hardware requirements:** Session Manager runs on any S/390® or z/Architecture™ machine on which the applicable operating system and software will run.

**Software requirements:** Session Manager for z/OS requires z/OS V1.7, or later, including z/OS.e

The product functions in the VTAM® environment of the operating system.

### Planning information

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**Packaging:** The following items are delivered:

- IBM International Program License Agreement (IPLA) in multilanguage booklet (Z125-3301)
- License Information (GC34-6870) in multiple languages
- Proof of Entitlement
- Program Directory (GI13-0520)
- 3480 Uncomp 1/2-inch tape cartridge

### Security, auditability, and control

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Session Manager for z/OS V2.1 uses the security and auditability features of the base operating system under which it is operating. It also produces its own audit logs, providing a full audit trail for all users. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in

application systems and communication facilities.

## 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 unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

The following services support WebSphere® XYZ Product:

- IBM Get Started with WebSphere XYZ Product
- IBM Migration Services for WebSphere XYZ Product
- ITS Specific Service offering

To learn more about IBM Software Services or to contact a Software Services sales specialist, visit

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

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## Ordering information

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### Charge metric

Program name	Part number or PID number	Charge metric
Session Manager for z/OS V2.1	5697-N61	per Value Unit
Session Manager for z/OS Software Subscription and Support	5655-J98	per Value Unit

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

Program number	Program name	Value Unit exhibit
5697-N61	Session Manager for z/OS V2.1	VUE007

For each System 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 System 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 mi ni mum	MSUs maxi mum	Val ue Uni ts/MSU
Base	1	3	1
Ti er A	4	45	0.45
Ti er B	46	175	0.36
Ti er C	176	315	0.27
Ti er D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware      Val ue Uni ts/machi ne

MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL Models	2

### 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 System z IPLA product, the applicable Value Units would be:

Translation from MSUs to Value Units

	MSUs	*	Value Units/MSU	=	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

ShopzSeries 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). ShopzSeries is available in the U.S. and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries Web site at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

5697-N61 -- Session Manager for z/OS V2.1  
 5655-J98 -- Session Manager for z/OS  
 Software Subscription and Support

Basic license one-time charge

### Basic license: On/Off Capacity on Demand (On/Off CoD)

Session Manager for z/OS V2.1 is eligible for On/Off Capacity on Demand (On/Off CoD) with a Temporary Use Charge (TUC) calculated based on MSUs-per day usage.

Program Name Session Manager for z/OS V2.1  
 Program PID 5697-N61

Entitlement identifier	Description	License option/ Pricing metric
S01476N	Session Manager for z/OS V2.1	Basic OTC, Per MSU-day TUC

### Value Unit Pricing

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 Session Manager for z/OS V2.1  
 Program PID 5697-N61

The following information is a summary of all license options and pricing metrics offered for the above PID number.

Entitlement identifier	Description	License options/ Pricing metrics
S01476N	Session Manager for z/OS V2.1	Basic OTC, Value Units
Orderable supply ID	Language	Distribution medium
S01476M	US English	3480 tape cartridge

Subscription and Support PID 5655-J98

The following information is a summary of all license options and pricing metrics offered for the above PID number.

Entitlement identifier	Description	License options/ Pricing metrics
S00XMK9	Session Manager for z/OS Subscription and Support	Basic ALC, Value Units SW S&S Basic MLC, Value Units SW S&S (EMEA only) Decline SW S&S (no charge) Per MSU SW S&S Registration
Orderable supply ID	Language	Distribution medium
S00XMK5	US English	Paper

### Subscription and Support

To receive voice technical support by 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 through a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance (IAASM). 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 you are not entitled to new products.

When Subscription and Support is ordered, the charges will renew automatically 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 zSeries® 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.

**Single version charging:** To elect single version charging, you must notify and identify to IBM the prior program and replacement program, and the machine the programs are operating on.

### Customized Offerings

Product deliverables are shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac®).

CBPDO and ServerPac are offered for Internet delivery, where ShopzSeries product ordering is available. Internet delivery of ServerPac may help improve automation and software delivery time. For more details on Internet delivery, refer to the ShopzSeries help information at

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

Media type for this software product is chosen during the Customized Offerings ordering process. Based on your customer environment, it is recommended that the highest possible density tape media is selected. Currently offered media types are:

- CBPDOs — 3480, 3480 Compressed, 3490E, 3590, 3592\*
- ServerPacs — 3480, 3480 Compressed, 3490E, 3590, 3592\*
- SystemPacs — 3480, 3480 Compressed, 3490E, 3590, 3592\*

\* 3592 is highest density media. Selecting 3592 will ship the fewest number of media.

Once a product becomes generally available, it will be included in the next ServerPac and SystemPac monthly update.

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 inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac 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® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

**Agreement:** IBM International Program License Agreement including the License Information (LI) 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:** The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for 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.

S/390 and System z IBM Operational Support Services — SoftwareXcel is an option if you desire added services.

**Limited warranty:** 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. Consult the IBM Software Support Guide for further information at

<http://www.ibm.com/software/support>

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.

**Authorization for use on home/portable computer:** You may not copy and use this program on another computer without paying additional license fees.

## **Other terms**

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**Volume orders (IVO):** No

### **IBM International Passport Advantage Agreement**

**Passport Advantage applies:** No

**Software Maintenance applies:** No. 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 newly announced 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 SoftwareXcel offering, visit

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

For additional information on the revised IBM Operational Support Services, refer to [601-023](#), dated July 10, 2001.

**IBM Operational Support Services — SoftwareXcel:** No

**System i™ Software Maintenance applies:** No

**Variable charges apply:** No

**Educational allowance available:** Yes. A 15% education allowance applies to qualified education institution customers.

Replaced program		Replacement program	
Program number	Program name	Program number	Program name
5665-365	NetView(R) /Access Services MVS(TM) V1	5697-N61	Session Manager for z/OS V2.1
5695-036	NetView/Access Services MVS V2	5697-N61	Session Manager for z/OS V2.1

### **Sub-capacity terms and conditions**

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For each System 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 System z IPLA program you select
- The applicable Value Unit Exhibit

- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

For more information on the Value Unit Exhibit for the System z IPLA program you selected, refer to the Ordering information section.

Program number	Program name	Terms
5655-N61	Session Manager for z/OS V2.1	z/OS-basedN/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 System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

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

**Sub-capacity mainframes:** In cases where sub-capacity is applicable, the following terms apply.

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

z/OS-based: The required license capacity of a System z IPLA program with these terms equals the license capacity of z/OS (and z/OS.e) on the machines where the System z IPLA program executes.

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

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

For more information on mainframe MSU-rated capacities, refer to The System/370™, System/390®, and System z Machine Exhibit (Z125-3901), or visit the Mainframes section of the System z Exhibits Web site

<http://ibm.com/zseries/library/swpriceinfo/>

For more information on sub-capacity System z IPLA terms and conditions, refer to [204-184](#), dated August 10, 2004.

For additional information for products with reference-based terms, System z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the System z 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 System z IPLA program with referenced-based terms, each environment should be assessed separately.

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one:

- That meets the criteria defined in [198-001](#), dated January 13, 1998
- Where MLC pricing is aggregated across the Sysplex

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

- All instances of the OS/390® operating system must be migrated to the z/OS (or z/OS.e) operating systems
- Any licenses for the OS/390 operating system must be discontinued
- All instances of the z/OS operating (or z/OS.e) 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 System z Software Pricing Web site

<http://ibm.com/zseries/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 System z Workload License Charges (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement — Attachment for IBM eServer System z 890 and 800 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 IBM System z9™ and eServer zSeries Programs Sub-Capacity Pricing (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

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

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

### **On/Off Capacity on Demand (CoD)**

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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 Customer Initiated Upgrade and IBM eServer On/Off Capacity on Demand — Software (Z125-6611) must be signed prior to use.

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## **Prices**

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Information on charges is available at

<http://www.ibm.com/support>

Choose the option entitled Purchase/upgrade tools.

### **IBM Global Financing**

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IBM Global Financing offers competitive financing to credit-qualified customers 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 customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

<http://www.ibm.com/financing>

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

customers. Rates are based on a customer'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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## Order now

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