



IBM Tivoli Storage Manager for z/OS Media V6.3 and IBM Tivoli Storage Manager Extended Edition for z/OS Media V6.3 enable FICON attached device access for IBM Tivoli Storage Manager V6.3 Server on AIX and Linux on System z

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At a glance

IBM® Tivoli® Storage Manager for z/OS® Media V6.3 and IBM Tivoli Storage Manager Extended Edition for z/OS Media V6.3 is designed to deliver:

- Coexistence of SCSI and Fibre Channel and FICON® devices used by the same Tivoli Storage Manager V6.3 server
- Upgrade from Tivoli Storage Manager for z/OS V5.5 to a Tivoli Storage Manager V6.3 server on AIX® or Linux® on System z® :
 - To continue using FICON-attached devices, without having to move tape data previously maintained by Tivoli Storage Manager for z/OS V5.5 server
 - To exploit functionality introduced in Tivoli Storage Manager V6 such as:
 - Built-in deduplication (source and target)
 - Greater scalability
 - Built-in node replication with deduplication
 - Automatic scheduling and distribution of Tivoli Storage Manager backup-archive client updates
 - Numerous other enhancements
 - To share tape library resource with other z/OS applications

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: ME001

Overview

IBM Tivoli Storage Manager for z/OS Media V6.3 and IBM Tivoli Storage Manager Extended Edition for z/OS Media V6.3 are designed to enable IBM Tivoli Storage Manager V6.3 servers running on AIX and Linux on System z to access a variety of FICON attached tape or DASD resources on z/OS .

Tivoli Storage Manager for z/OS Media V6.3 and Tivoli Storage Manager Extended Edition for z/OS Media V6.3 are replacement products for Tivoli Storage Manager for

z/OS V5.5 and Tivoli Storage Manager Extended Edition for z/OS V5.5. If you are currently entitled to Subscription and Support for Tivoli Storage Manager for z/OS V5.5 or Tivoli Storage Manager Extended Edition for z/OS V5.5, you are eligible for a free upgrade to the replacement products.

If you currently have Tivoli Storage Manager for z/OS V5.5 or Tivoli Storage Manager Extended Edition for z/OS V5.5 installed, you can move to Tivoli Storage Manager V6.3 server on AIX or Linux on System z to take advantage of new functions available in Tivoli Storage Manager V6, while maintaining the ability to leverage your investment in FICON attached storage. Also, Tivoli Storage Manager for z/OS Media V6.3 and Tivoli Storage Manager Extended Edition for z/OS Media V6.3 are designed to allow the tape volume and stored data that was previously inventoried by the Tivoli Storage Manager for z/OS V5.5 server remain accessible on the z/OS system by the Tivoli Storage Manager V6.3 server on AIX or Linux for System z without having to move the tape volume from the z/OS managed tape library.

Tivoli Storage Manager for z/OS Media V6.3, working in collaboration with a Tivoli Storage Manager V6.3 server on AIX or Linux for System z, can also provide access to data stored on z/OS by exploiting Tivoli Storage Manager Storage Agent technology. This helps you to transfer data directly to and from the z/OS Media server using a TCP/IP network and IBM Tivoli Storage Manager for Storage Area Networks is required.

Key prerequisites

Refer to the [Hardware and software requirements](#) section.

Planned availability date

November 11, 2011

Description

IBM Tivoli Storage Manager for z/OS Media V6.3 or IBM Tivoli Storage Manager Extended Edition for z/OS Media V6.3 provides access and entitlement to either IBM Tivoli Storage Manager V6.3 or IBM Tivoli Storage Manager Extended Edition V6.3 for AIX and Linux on System z as supporting programs.

Tivoli Storage Manager V6.3 and Tivoli Storage Manager Extended Edition V6.3 servers provide database metadata about nodes, administrators, policies, and track objects in a hierarchy of storage. They also provide communication with Tivoli Storage Manager clients, other Tivoli Storage Manager servers, and with Tivoli Storage Manager for z/OS Media V6.3.

Tivoli Storage Manager provides access to SCSI and Fibre Channel storage, and through Tivoli Storage Manager for z/OS Media, also provides access to FICON attached storage. Tivoli Storage Manager for z/OS Media receives and sends data from and to Tivoli Storage Manager V6.3 server performing I/O to tape or DASD using sequential file access on behalf of the Tivoli Storage Manager V6.3 server. Tivoli Storage Manager for z/OS Media provides improved sequential-access file implementation and supports the same storage devices as Tivoli Storage Manager for z/OS V5.5 server. It also interacts with z/OS Data Facility Storage Management Subsystem (DFSMS™) and the Tape Management System in the same way as Tivoli Storage Manager for z/OS V5.5 server.

If you currently have Tivoli Storage Manager for z/OS V.5 or Tivoli Storage Manager Extended Edition for z/OS V.5, a Tivoli Storage Manager internal data base migration utility is provided. The utility extracts records from Tivoli Storage Manager for z/OS V5.5 database and loads the data into Tivoli Storage Manager V6.3 database

on AIX or Linux on System z . There are two metadata transfer options during this database migration: a two step serialized process consisting of an extract database transfer to media followed by an insert database step or an atomic extract and insert database transfer over a TCP/IP network. Data previously inventoried by Tivoli Storage Manager for z/OS and stored on DASD must temporarily be moved to tape prior to database migration. Data previously written to tape by Tivoli Storage Manager for z/OS V5.5 is not required to be migrated.

Accessibility by people with disabilities

A US 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

Section 508 of the US Rehabilitation Act

Tivoli Storage Manager for z/OS Media and Tivoli Storage Manager Extended Edition for z/OS Media is capable as of November 11, 2011, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested on the following website

http://www.ibm.com/able/product_accessibility/index.html

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 ID and password are required (use IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=211-374>

Value Unit-based pricing

Value Unit pricing for eligible IBM 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 website

<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.

Program number

Program number	VRM	Program name
5698-Z01	6.3.0	IBM Tivoli Storage Manager for z/OS Media
5698-Z02	6.3.0	IBM Tivoli Storage Manager Extended Edition for z/OS Media

Product identification number

Program PID number	Subscription and Support PID number
5698-Z01	5698-Z07
5698-Z02	5698-Z08

Education support

Comprehensive education for IBM Tivoli products is offered through Worldwide Tivoli Education Delivery Services. A wide range of training options are available, including classes led by instructors, learning on demand, on-site training, and blended learning solutions.

For additional information, visit

<http://www-306.ibm.com/software/tivoli/education/>

Offering Information

Product information is available via the Offering Information website

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

Publications

The following documentation will be available in English on the general availability date. It will be available from the Tivoli Storage Manager Information Center at

<http://publib.boulder.ibm.com/infocenter/tsminfo/v6r3/index.jsp>

Title	Order number
IBM Tivoli Storage Manager for z/OS Media Installation and User's Guide, Version 6.3	SC27-4018-00

The Information Center provides this publication as HTML topics that you can view online or as a publication PDF that you can download.

You can also download this publication from the IBM Publications Center.

Translated publications in selected languages will be available within 60 days of the general availability date.

The IBM Publications Center

<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. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware and software requirements

For current information on hardware and software requirements, refer to following website, as indicated.

IBM Tivoli Storage Manager for z/OS Media V6.3 and Tivoli Storage Manager Extended Edition for z/OS Media V6.3

<https://www.ibm.com/support/docview.wss?uid=swg21508783>

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.

Planning information

Direct customer support

Direct customer support is provided by IBM Operational Support Services - SoftwareXcel. This fee service enhances your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel helps answer questions pertaining to usage and suspected software defects for eligible products.

Installation and technical support is provided by Global Services. For more information call 800-IBM-4YOU (426-4968).

For technical support or assistance, contact your IBM representative or visit

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

Packaging

IBM Tivoli Storage Manager for z/OS Media V6.3 and Tivoli Storage Manager Extended Edition for z/OS Media V6.3 are distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- Tape

- Publications (refer to the [Publications](#) section)

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

Tivoli Storage Manager for z/OS Media V6.3 and Tivoli Storage Manager Extended Edition for z/OS Media V6.3 use the security and auditability features of the operating system software. 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 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/>

Licensing metric definitions and pricing examples

Licensing metric definitions

Millions of Service Units (MSUs)

MSUs are defined as one million Central Processing Unit (CPU) service units per hour; the measure of capacity used to describe the computing power of the hardware processors on which S/390® or System z software runs. MSU values are determined by the hardware vendor, IBM, or Software Compatible Vendors (SCVs).

For MSU capacity by vendor and machine, go to

<http://www.ibm.com/systems/z/resources/swprice/reference/exhibits/hardware.html>

Standby or backup systems

For programs running or resident on backup machines, IBM defines three types of situations: cold, warm, and hot. In cold and warm situations, a separate entitlement for the copy on the backup machine is normally not required and typically no additional charge applies. In a hot backup situation, the customer needs to acquire other license or entitlements sufficient for that server. All programs running in backup mode must be solely under the customer's control, even if running at another enterprise's location.

As a practice, the following are definitions and allowable actions concerning the copy of the program used for backup purposes.

Cold: A copy of the program may reside, for backup purposes, on a machine as long as the program is not started. There is no additional charge for this copy.

Warm: A copy of the program may reside for backup purposes on a machine and is started, but is idling, and is not doing any work of any kind. There is no additional charge for this copy.

Hot: A copy of the program may reside for backup purposes on a machine, is started, and is doing work. The customer must acquire a license or entitlements for this copy and there will generally be an additional charge.

Doing work includes, for example, production, development, program maintenance, and testing. It also could include other activities such as mirroring of transactions, updating of files, synchronization of programs, data or other resources (for example, active linking with another machine, program, database or other resource, and so on), or any activity or configurations that would allow an active hot switch or other synchronized switch over between programs, databases, or other resources to occur.

In the case of a program or system configuration that is designed to support a high availability environment by using various techniques (for example, duplexing, mirroring of files, or transactions, maintaining a heartbeat, active linking with another machine, program, database, or other resource), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

Value Unit

Value Unit (VU) is a unit of measure by which the program can be licensed. Value Unit entitlements are based on the number of units of a specific designated measure used or managed by the program. Licensee must obtain sufficient entitlements for the number of Value Units required for Licensee's environment for the designated measure specified in the Value Unit Exhibit (VUE) provided below. Value Unit entitlements are specific to the program and may not be exchanged, interchanged, or aggregated with Value Unit entitlements of another program.

The Value Unit Exhibit for this program is VUE007.

- From 1 to 3 MSUs, VUs per MSU = 1 VU for a maximum of 3 VUs at this level (cumulative VUs of 3)
- From 4 to 45 MSUs, VUs per MSU = 0.45 VU for a maximum of 19 VUs at this level (cumulative VUs of 22)
- From 46 to 175 MSUs, VUs per MSU = 0.36 VU for a maximum of 47 VUs at this level (cumulative VUs of 69)
- From 176 to 315 MSUs, VUs per MSU = 0.27 VU for a maximum of 38 VUs at this level (cumulative VUs of 107)

For more than 315 MSUs, VUs per MSU = 0.20 VUs

Notes:

- IBM Tivoli Storage Manager for z/OS Media V6.3 includes entitlement to Tivoli Storage Manager V6.3 as a supporting program.
- IBM Tivoli Storage Manager Extended Edition for z/OS Media V6.3 includes entitlement to Tivoli Storage Manager V6.3 as a supporting program.
- IBM Tivoli Storage Manager Extended Edition is required to use any of the following function: node replication (and the use of REPLICATE NODE command as a target server), disaster recovery manager, Network Data Management Protocol (NDMP), support of tape libraries (including virtual tape libraries) with more than 4 drives or more than 48 slots.
- Licensing for IBM Tivoli Storage Manager for z/OS Media is based on the MSU rating of the System z mainframe.

Pricing examples

One 1,500 MSU System z server

All products in this example employ Value Unit slope VUE007 (VUE = Value Unit Exhibit). If the customer has installed 1,500 MSUs, the applicable number of Value Units will be:

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 rounded up to the next integer, so the customer will need to license 344 Value Units in this example.

Value Units for non-MSU-based S/390 processors:

- System Value Units/System
- MP3000 H30 6
- MP3000 H50 8
- MP3000 H70 12
- ESL models 2

Value Units for IBM 9672 processors are based upon the full capacity of these systems. This is applicable to all System z systems measured on MSU capacity. Information on MSU capacities can be found in the IBM System/370™, System/390® and System z Machine Exhibit, Z125-3901.

Ordering information

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

Program number	Program name	Value Unit exhibit
5698-Z01	IBM Tivoli Storage Manager for z/OS Media V6.3	VUE007
5698-Z02	IBM Tivoli Storage Manager Extended Edition for z/OS Media V6.3	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 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	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
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 US 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 website at

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

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.

Current licensees

New licensees

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Basic license

Ordering information for MSU-based System z offerings

Translation from MSUs to Value Units

	MSUs	Value Units/MSU
Base	1-3	1.00
Tier A	4-45	.45

Tier B	46-175	.36
Tier C	176-315	.27
Tier D	316+	.20

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: IBM Tivoli Storage Manager for z/OS Media V6.3
 Program PID: 5698-Z01

Entitlement Identifier	Description	License option/ Pricing metric
S016VLR	IBM Tivoli Storage Manager for z/OS Media	Basic OTC, per Value Unit Basic OTC, per MSU-day TUC
Orderable supply ID	Language	Distribution medium
S016VNF	English	3590 Tape Cartridge, CD-ROM, and Hardcopy Pub

Subscription and Support PID: 5698-Z07

Entitlement identifier	Description	License option/ Pricing metric
S016VMJ	Tivoli Storage Manager for z/OS Media S&S	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
Orderable supply ID	Language	Distribution medium
S016VNM	English	Hardcopy publication

Program name: IBM Tivoli Storage Manager Extended Edition
 for z/OS Media V6.3
 Program PID: 5698-Z02

Entitlement Identifier	Description	License option/ Pricing metric
S016VM9	IBM Tivoli Storage Manager Extended Edition for z/OS Media	Basic OTC, per Value Unit Basic OTC, per MSU-day TUC
Orderable supply ID	Language	Distribution medium
S016VNH	English	3590 Tape Cartridge, CD-ROM, and Hardcopy Pub

Subscription and Support PID: 5698-Z08

Entitlement identifier	Description	License option/ Pricing metric
S016VM2	IBM Tivoli Storage Manager Extended Edition for z/OS Media S&S	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
Orderable supply ID	Language	Distribution medium
S016VNK	English	Hardcopy publication

Subscription and Support

Subscription and Support must be ordered to receive voice technical support via telephone during normal business hours, and future releases and versions, at no additional charge. The capacity of Subscription and Support (for example, Value Units or number of processors) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program product number 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 Support Maintenance (IAASM). This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles customers to future releases and versions, at no additional charge. Note that the customer is not entitled to new products.

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

Customized Offerings

Product deliverables are shipped only via CBPDO, ServerPac, SystemPac® .

CBPDO and ServerPac are offered for Internet delivery in countries where ShopzSeries 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 ShopzSeries 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 for CBPDO, ServerPac, and SystemPac , include:

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. z/OS can be ordered via all three offerings at general availability. 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
- SystemPac shipments will begin four weeks after general availability due to additional customization, and data input verification.

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® 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

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

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

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 System z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information form number

- L-BEBY-8KGU38 Tivoli Storage Manager for z/OS Media V6.3 (5698-Z01)
- L-BEBY-8KGU4J Tivoli Storage Manager Extended Edition for z/OS Media V6.3 (5698-Z02)

The program's License Information will be available for review on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

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.

Other terms**Volume orders (IVO)**

No

IBM International Passport Advantage Agreement**Passport Advantage applies**

No

Usage restriction

Yes. Usage is limited to the quantity of Value Units ordered.

For additional information, refer to the License Information document that is available on the IBM Software License Agreement website

<http://www.ibm.com/software/sla/sladb.nsf>

Software Subscription and Support 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 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/si/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 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	Parent, if applicable
5698-Z01	IBM Tivoli Storage Manager for z/OS Media V6.3	Execution-based	NA
5698-Z02	IBM Tivoli Storage Manager Extended Edition for z/OS Media V6.3	Execution-based	NA

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 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 IBM System z Machines Exhibit*, Z125-3901, or visit the Mainframes section of the System z Exhibits website

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

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:

- 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 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 System z Software Pricing website

<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 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 System z 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.

IBM Getting Started Sub-capacity Pricing for z/OS IPLA Software applies.

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 System z ((or equivalent) server).

On/Off Capacity on Demand (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 System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

IBM Electronic Services

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The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

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Corrections

(Corrected on October 16, 2012)

Changes made in the Sub-capacity terms and conditions section.