

# IBM OMEGAMON for Storage on z/OS, V5.5.0 helps to improve user experience with Realtime Dataset Metrics Collection and Management options

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## At a glance

IBM<sup>(R)</sup> OMEGAMON<sup>(R)</sup> for Storage on z/OS<sup>(R)</sup>, V5.5.0 enhances its feature set to help keep your storage environment running smoothly. These new enhancements help storage administrators to quickly detect and address emerging space issues and use less CPU resources:

- Realtime Dataset Metrics collection options provide near real-time data needed to manage storage, while reducing CPU consumption.
- Realtime Dataset Management is a new security-rich web interface enabling you to arrange, navigate, filter, and sort voluminous data set information to align with the key tasks that are associated with space management.

IBM OMEGAMON for Storage on z/OS is available individually or as part of the following software suites:

- IBM Advanced Storage Management Suite for z/OS
- IBM OMEGAMON z/OS Management Suite
- IBM OMEGAMON Performance Management Suite for z/OS
- IBM Service Management Suite for z/OS
  - Users of the IBM Service Management Suite for z/OS gain additional storage management capability from new storage-related dashboards for operations analysts in the Service Management Unite component.

## Overview

**IBM OMEGAMON for Storage on z/OS** is a robust storage resource management and monitoring solution for z/OS. With OMEGAMON for Storage on z/OS, your storage administrators can prevent storage-related outages and application slowdowns, and help to ensure you are getting the most out of your investment in storage hardware, software, and media. It provides the visibility, control, and automation that modern storage administrators need to keep their wide variety of storage hardware and software subsystems healthy and performing in support of critical applications. Intelligent alerts help focus on events and areas that require attention, while overall monitoring and reporting target operational performance, availability, space management, and application storage performance.

Version 5.5.0 of OMEGAMON for Storage on z/OS brings the following enhancements:

- Realtime Dataset Metrics collection options provide the storage administrator with the near real-time data needed to manage storage, and while reducing CPU consumption for periodically gathering and reporting on data set and group attributes.
- Realtime Dataset Management is a security-rich, web-based capability that helps simplify arranging, navigating, filtering, and sorting voluminous data set information to align with the key tasks that are associated with space management. This provides quick, flexible, direct access to detailed metrics that are related to data set usage, size, and performance in their storage environment, when needed rather than through reports that can take time to run. New or experienced z/OS storage administrators can respond in minutes to developing storage space issues, rather than in hours, thereby preventing critical performance issues or even outages. Data set management views can be customized to enable further flexibility in sorting and filtering to help quickly identify issues and solutions.
- Realtime Dataset Management exploits Zowe technology, which is a new z/OS-based infrastructure that was codeveloped by IBM, Rocket Software, and CA Technologies. Zowe is designed to make developing, delivering, and running mainframe applications as simple, agile, and intuitive as other cloud platforms, enabling web developers to use familiar tools and APIs without requiring deep knowledge of the z/OS operating environment or data constructs. To learn more about Zowe and how IBM plans to adopt and exploit it, see Software Announcement [218-405](#), dated August 14, 2018.

IBM OMEGAMON for Storage on z/OS, V5.5.0 helps to enable mainframe IT services organizations to become more nimble and responsive to day-to-day and hour-to-hour changes in their foundational infrastructure. Its focus on storage helps prevent problems that can grow quickly and cause outages if not detected and corrected.

IBM OMEGAMON for Storage on z/OS, V5.5.0 is available individually as a stand-alone offering or as a component of the following suites:

- IBM Advanced Storage Management Suite, V2.2.2
- IBM OMEGAMON for z/OS Management Suite, V5.5.1
- IBM OMEGAMON Performance Management Suite for z/OS, V5.5.1
- IBM Service Management Suite for z/OS, V1.5.1
  - Users of the IBM Service Management Suite for z/OS can gain additional storage management capability from new storage-related dashboards for operations analysts in the Service Management Unite component, including storage events in System Health views, a Storage Overview Page, and Storage Subsystem Details.

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## Key prerequisites

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See the [Software requirements](#) and [Hardware requirements](#) sections.

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## Planned availability date

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September 21, 2018

See the [Availability of national languages](#) section for national language availability.

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## Description

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As a robust storage management and monitoring solution for z/OS, IBM OMEGAMON for Storage on z/OS provides monitoring and management of the key subsystems such as flash, disk, and tape storage devices and media; controlling subsystems such as FICON<sup>(R)</sup>; and software-managed subsystems such as DFSMSHsm,

DFSMSrmm, CA1, VSAM RLS, ICF Catalogs, and storage replication. IBM OMEGAMON for Storage on z/OS integrates with other OMEGAMON offerings to provide horizontal integration between storage and other related z/OS management disciplines. In addition, storage administrators can deep dive through links to other specialized storage management offerings in areas such as DFSMSshm, ICF Catalog, and storage allocation, for more detailed monitoring and faster problem determination.

### **Enhancements in version 5.5.0**

Realtime Dataset Metrics capability provides storage administrators with near real-time visibility into key space management and utilization metrics, while substantially reducing the CPU resources that are required to collect those metrics. This feature gives storage administrators the fresh data that is required to identify emerging problems and avoid crisis situations or outages.

Realtime Dataset Management is a new, easy-to-use, web-browser-based viewer that helps enable storage administrators to quickly view, sort, filter, group, and summarize data set metrics in near real time. It features:

- New capability to easily export to .CSV file format, enabling easy capture, reporting, and sharing of selected data
- Streamlined ad hoc viewing and researching, with ad hoc query capability that executes across the full data set, eliminating the need to presort or prefilter with custom reports
- The addition of High Level Qualifier as a summary level, which provides additional convenient ways to summarize data set information
- Result column sets that are logically grouped and based on various tasks, giving storage administrators the information they require, presented and organized for their task without scrolling through extraneous columns of data

Realtime Dataset Management is the first IBM implementation of capabilities to use Zowe technology, a new open framework for z/OS that was developed jointly by IBM, Rocket Software, and CA Technologies. Zowe is designed to make developing, delivering, and running mainframe applications as simple, agile, and intuitive as other cloud platforms, allowing the use of tools and APIs that are familiar to web developers, without requiring deep knowledge of the z/OS operating environment or data constructs. Web applications that are developed with open source Zowe technology are simple to install on z/OS servers and they require no java-based client-side software, eliminating the need to stay current with constantly changing java levels or manage client software installation and maintenance.

### **Package options geared for flexibility and business agility**

IBM OMEGAMON for Storage on z/OS is available in several flexible package options:

- As a stand-alone offering
- As a component of the IBM Advanced Storage Management Suite, IBM OMEGAMON Management Suite, IBM Performance Management Suite, or IBM Service Management Suite

In addition to the enhancements in IBM OMEGAMON for Storage on z/OS, clients who have the IBM Service Management Suite for z/OS can use the new Service Management Unite V1.1.4 storage management dashboards to provide additional high-level storage monitoring insight for both storage administrators and operations analysts. Service Management Unite V1.1.4 complements the IBM OMEGAMON for Storage on z/OS toolset and enables storage administrators to easily monitor overall system health at a glance with dashboards for storage events, storage group summary, storage group details, and storage volume details.

- Canzlog Print provides the capability to store syslog and NetView<sup>(R)</sup> log messages for audit and diagnosis purposes in a single action. Customization is available to enable the printed messages to be tailored for a certain scenario or to meet an installation's requirements. The customization options include message filtering, number of messages, and detail information for the messages.

- NetView Command Statistics provides insights into system resources consumed by NetView commands. The statistics can be used for accounting purposes, analytics, or to improve performance. The commands to be monitored can be customized. Additionally, customizable samples provide summarization and detailed data on a per command basis.
- Improved capability for the Canzlog data space enables the data space to have an initial allocation of 128K and dynamically grow, if necessary, to prevent loss of message automation. This can remove storage constraints on LPARs with small system resources.

## **Value Unit-based pricing**

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

For each z Systems 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, go to the [IBM Z software pricing](#) website.

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 z Systems IPLA program you selected, see the [Terms and conditions](#) section.

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## **Statement of general direction**

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IBM intends to use Zowe to modernize the user experience for z/OS IT Service Management offerings while capturing and preserving the investment clients have made in customization.

IBM System Automation for z/OS, V4.1.0 is the last release to support the System Automation for z/OS Dynamic Library Adapter. The Simplified Data Model provided

by IBM Tivoli<sup>®</sup> Application Dependency Discovery Manager, V7.3.0 will not be supported by System Automation for z/OS, V4.1.0.

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## Availability of national languages

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Translation information, if available, can be found at the [Translation Reports](#) website.

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## Program number

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Program number	VRM	Program name
5698-T05	5.5.0	IBM OMEGAMON for Storage on z/OS
5698-AAF	1.5.1	IBM Service Management Suite for z/OS
5698-AAJ	2.2.2	IBM Advanced Storage Management Suite for z/OS
5698-AA8	5.5.1	IBM OMEGAMON Performance Management Suite for z/OS
5698-TOM	5.5.1	IBM OMEGAMON for z/OS Management Suite

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## Product identification number

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Program PID number	Subscription and Support PID number
5698-T05	5608-S77
5698-AAF	5698-AAG
5698-AAJ	5698-Z10
5698-AA8	5698-AA9
5698-TOM	5698-Z06

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## Education support

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IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers can be found on [IBM authorized training](#) website.

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

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## Offering Information

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

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## Publications

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The following publications will be available for ordering on the general availability date. To order, use the IBM Knowledge Center, or contact your IBM representative.

### IBM OMEGAMON for Storage on z/OS, V5.5.0 (5698-T05)

Title	Publication number
IBM OMEGAMON for Storage on z/OS Program Directory	GI13-2305
IBM OMEGAMON for Storage on z/OS User's Guide	SC27-4379

<b>Title</b>	<b>Publication number</b>
IBM OMEGAMON for Storage on z/OS License Information CD	LC27-4866

### **IBM Service Management Suite for z/OS, V1.5.1 (5698-AAF)**

<b>Title</b>	<b>Publication number</b>
IBM Service Management Suite for z/OS Program Directory	GI13-2328
IBM Service Management Suite for z/OS ID Program Directory	GI13-4149
IBM Service Management Suite for z/OS License Information CD	LC27-6399

Service Management Suite for z/OS, V1.5.1 product documentation is published in [IBM Knowledge Center](#), which can be viewed from a web browser with internet access.

### **IBM Advanced Storage Management Suite for z/OS V2.2.2 (5698-AAJ)**

<b>Title</b>	<b>Publication number</b>
IBM Advanced Storage Management Suite for z/OS Program Directory	GI13-2258
IBM Advanced Storage Management Suite for z/OS License Information CD	LC27-4898

### **IBM OMEGAMON Performance Management Suite for z/OS V5.5.1 (5698-AA8)**

<b>Title</b>	<b>Publication number</b>
IBM OMEGAMON Performance Management Suite for z/OS Program Directory	GI13-2299
IBM OMEGAMON Performance Management for z/OS Suite License Information CD	LC27-4899

IBM OMEGAMON Performance Management Suite for z/OS, V5.5.1 product documentation is published in [IBM Knowledge Center](#), which can be viewed from a web browser with internet access.

### **IBM OMEGAMON for z/OS Management Suite V5.5.1 (5698-TOM)**

<b>Title</b>	<b>Publication number</b>
IBM OMEGAMON for z/OS Management Suite Program Directory	GI13-2258
IBM OMEGAMON for z/OS Management Suite License Information CD	LC27-4902

IBM OMEGAMON for z/OS Management Suite, V5.5.1 product documentation is published in [IBM Knowledge Center](#), which can be viewed from a web browser with internet access.

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## **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, contact your Lab Services Sales or Delivery Leader.

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## Technical information

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### Specified operating environment

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#### Hardware requirements

The minimum required hardware and prerequisites for OMEGAMON for Storage on z/OS, V5.5.0 are:

- IBM z10™, or later, capable of running IBM z/OS, V2.2 (5650-ZOS), or later

Other products that are part of Advanced Storage Management Suite for z/OS, V2.2.2, Service Management Suite for z/OS, V1.5.1, OMEGAMON Performance Management Suite for z/OS, V5.5.1, and OMEGAMON for z/OS Management Suite, V5.5.1 may have different minimum hardware and software requirements. See the [Ordering information](#) section for links to the individual product announcements. The **Hardware requirements** section in each announcement provides detailed information for each product.

#### Software requirements

The minimum software requirements for OMEGAMON for Storage on z/OS, V5.5.0 are:

- IBM z/OS V2.2 (5650-ZOS), or later
- IBM Tivoli Monitoring for z/OS, V6.3.0 Fixpack 6, or later
- IBM SDK for Node.js z/OS, V6.11, or later (5655-SDK)
- z/OS Distributed File Service (DFS) zSeries File System (zFS)
- Application Transparent TLS (AT-TLS) feature of z/OS Communications Server

For additional information, see the Program Directory or the *Planning and Installation Manual*.

Other products that are part of Advanced Storage Management Suite for z/OS, V2.2.2, Service Management Suite for z/OS, V1.5.1, OMEGAMON Performance Management Suite for z/OS, V5.5.1, and OMEGAMON for z/OS Management Suite, V5.5.1, might have different minimum hardware and software requirements. See the [Ordering information](#) section for links to the individual product announcements. The **Software requirements** section in each announcement provides detailed information for each product.

### Planning information

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#### Packaging

The programs in this announcement are distributed with:

- International Program License Agreement (Z125-3301)
- License Information document
- Publications (see the [Publications](#) section)
- Media

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, which 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.

#### Direct client support

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For technical support or assistance, contact your IBM representative or go to the [IBM Support Portal](#) website.

## Security, auditability, and control

The programs in this announcement use the security and auditability features of the operating system software.

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

## Ordering information

Consult your IBM representative.

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

Program number	Program name	Value Unit exhibit
5698-T05	IBM OMEGAMON for Storage on z/OS, V5.5.0	VUE007
5698-AAF	IBM Service Management Suite for z/OS	VUE007
5698-AAJ	IBM Advanced Storage Management Suite for z/OS	VUE007
5698-AA8	IBM OMEGAMON Performance Management Suite for z/OS	VUE007
5698-TOM	IBM OMEGAMON for z/OS Management Suite	VUE007

For each IBM Z<sup>(R)</sup> IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the *required license capacity*. Your required license capacity is based upon the following factors:

- The IBM Z IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

### Value Unit exhibit VUE007

	MSUs minimum	MSUs maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.20

### Ordering example

The total number of Value Units is calculated according to the following example.

If your required license capacity is 1,500 MSUs for your selected IBM Z IPLA product, the applicable Value Units would be:

Tier	MSUs	Multiplied by Value Units per MSU	Equal Value Units
Base	3	1.00	3.00
Tier A	42	.45	18.90
Tier B	130	.36	46.80

Tier	MSUs	Multiplied by Value Units per MSU	Equal Value Units
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.

#### Value Unit exhibit VUE020

Level	Minimum	Maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.15
Tier B	46	175	0.08
Tier C	176	315	0.04
Tier D	316	+	0.03

#### Ordering z/OS through the internet

Shopz provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). Shopz is available in the US and several countries in Europe. In countries where Shopz is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order through the traditional IBM ordering process. For more details and availability, visit [Shopz](#).

#### Charge metric

Definitions of the charge metrics for these licensed products can be found in the following License Information documents:

Program name	PID number	Charge metric	License Information document number
IBM OMEGAMON for Storage on z/OS, V5.5.0	5698-T05	Value Unit	<a href="#">L-ESMH-AZMMA4</a>
IBM Service Management Suite for z/OS, V1.5.1	5698-AAF	Value Unit	<a href="#">L-LARL-B37MXA</a>
IBM Advanced Storage Management Suite for z/OS, V2.2.2	5698-AAJ	Value Unit	<a href="#">L-LARL-B37MXA</a>
IBM OMEGAMON Performance Management Suite for z/OS, V5.5.1	5698-AA8	Value Unit	<a href="#">L-LARL-B37MQL</a>
IBM OMEGAMON for z/OS Management Suite, V5.5.1	5698-TOM	Value Unit	<a href="#">L-LARL-B37MA2</a>

Select your language of choice and scroll down to the Charge Metrics section.

#### Basic license

##### On/Off CoD

The products in this announcement are eligible for On/Off Capacity on Demand (CoD) with a temporary use charge calculated based on MSUs per-day usage.

## Translation from MSUs to Value Units

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

The entitlement identifier and orderable supply IDs are unchanged from the previous releases. For IBM OMEGAMON for Storage on z/OS (5698-T05), IBM Service Management Suite for z/OS (5698-AAF), IBM OMEGAMON Performance Management Suite for z/OS (5698-AA8), and IBM OMEGAMON for z/OS Management Suite (5698-TOM), see the **Ordering information** section in Software Announcement [217-270](#), dated July 17, 2017.

For IBM Advanced Storage Management Suite for z/OS (5698-AAJ), see the **Ordering information** section in Software Announcement [216-052](#), dated September 13, 2016.

### **Customized Offerings**

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Product deliverables are shipped only through CBPDO and ServerPac. These customized offerings are offered for internet delivery. For more details on internet delivery, go to the Help section on the [Shopz](#) website.

You choose the delivery method when you order the software. IBM recommends internet delivery. However, if you still require physical media, you can choose DVD.

Many products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered through 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 product ServerPac, go to the Help section on the [Shopz](#) website.

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 four weeks after general availability.

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## **Terms and conditions**

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The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage<sup>(R)</sup> Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

### **Licensing**

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IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

### **Software Maintenance**

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

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

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect. IBM Operational Support Services - SoftwareXcel is an option if you desire added services.

### License Information number

Program number	VRM	Program name	Form number
5698-T05	5.5.0	IBM OMEGAMON for Storage on z/OS	GI13-2306-04
5698-AAF	1.5.1	IBM Service Management Suite for z/OS	GI13-2327-07
5698-AAJ	2.2.2	IBM Advanced Storage Management Suite for z/OS	GI12-3334-03
5698-AA8	5.5.1	IBM OMEGAMON Performance Management Suite for z/OS	GI13-2300-07
5698-TOM	5.5.1	IBM OMEGAMON for z/OS Management Suite	GI13-2259-07

See the License Information documents page on the IBM Software License Agreement website for more information.

### 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 about known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, see the [IBM Software Support Handbook](#).

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

### Program technical support

Technical support of a program product version or release will be available for a minimum of five years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect.

This technical support allows you to obtain assistance (by telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and

Support (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, through an announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

For additional information about the IBM Software Support Lifecycle Policy, see the [IBM Software Support Lifecycle Policy](#) website.

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### **Money-back guarantee**

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

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

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

No

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### **Passport Advantage applies**

No

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

Yes. During the Software Subscription and Support period, for the unmodified portion of a program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

- Defect correction information, a restriction, or a bypass.
- Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements and new versions and releases to the program and documentation.
- Technical assistance: A reasonable amount of remote assistance by telephone or electronically to address suspected program defects. Technical assistance is available from the IBM support center in the organization's geography.

Additional details regarding Technical Assistance, which includes IBM contact information, are provided in the [IBM Software Support Handbook](#).

Software Subscription and Support does not include assistance for:

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

Software Subscription and Support is provided only if the program is within its support timeframe as specified in the Software Support Lifecycle policy for the program.

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, go to the [Supported Product list](#) website.

### **IBM Operational Support Services - SoftwareXcel**

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Yes

### **Variable charges apply**

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Yes

### **Educational allowance available**

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

### **Multi-Version Measurement**

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Multi-Version Measurement (MVM) replaces the previously announced Migration Grace Period time limit of six months and allows unlimited time for clients to run more than one eligible version of a software program. Clients may run multiple versions of a program simultaneously for an unlimited duration during a program version upgrade. Clients may also choose to run multiple versions of a program simultaneously for an unlimited duration in a production environment. MVM does not extend support dates for programs withdrawn from service.

For more information about MVM, including requirements for qualification, see the [MVM](#) web page. For a list of eligible programs, see the [IPLA Execution-Based Programs](#) web page.

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

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For each IBM Z<sup>(R)</sup> IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

- The IBM 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 about the Value Unit Exhibit for the IBM Z IPLA program you selected, see the [Ordering information](#) section.

<b>Program number</b>	<b>Program name</b>	<b>Terms</b>
5698-T05	IBM OMEGAMON for Storage on z/OS, V5.5.0	z/OS-based
5698-AAF	IBM Service Management Suite for z/OS, V1.5.1	z/OS-based
5698-AAJ	IBM Advanced Storage Management Suite for z/OS, V2.2.2	z/OS-based
5698-AA8	IBM OMEGAMON Performance Management Suite for z/OS, V5.5.1	z/OS-based
5698-TOM	IBM OMEGAMON for z/OS Management Suite V5.5.1	z/OS-based

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

IBM full-capacity ratings that can be found on the Mainframe Exhibits section of the [IBM Z software pricing](#) website.

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

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

Reference based: The required license capacity of an IBM 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 an IBM Z IPLA program with full machine based terms equals the MSU-rated capacity of the machines where the IBM Z IPLA program executes.

For more information about mainframe MSU-rated capacities, see *The IBM z Systems Machines Exhibit*, Z125-3901, or see the Mainframe Exhibits section of the [IBM Z \(z Systems Software Contracts\)](#) website.

For additional information for products with reference-based terms, IBM 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 IBM Z IPLA program executes.

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

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

- All instances of the OS/390<sup>(R)</sup> operating system must be migrated to the z/OS operating systems.
- Any licenses for the OS/390 operating system must be discontinued.

- All instances of the z/OS operating systems must be running in z/Architecture<sup>(R)</sup> (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, see the [IBM Z software pricing](#) website.

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the *IBM Customer Agreement - Attachment for z Systems Workload License Charges (Z125-6516)*.
- The complete terms and conditions for sub-capacity EWLC are defined in the *IBM Customer Agreement - Attachment for EWLC, TWLC, zELC, and z/OS.e License Charges (Z125-6587)*.

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - *Amendment for Amendment for IBM Z (z Systems Programs Sub-Capacity Pricing) (Z125-6929)*. Once the amendment is signed, the terms in the amendment replace any and all previous IBM 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 an eligible operating system and machine, for example, z/OS running in z/Architecture (64-bit) mode on a IBM Z, or equivalent, server.

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

### **On/Off 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 IBM z Systems On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

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## **Statement of good security practices**

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IT system security involves protecting systems and information through intrusion prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

**Important:** IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

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## **Prices**

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Registered external customers and IBM Business Partners can access IBMLink for charges. See [Purchase/upgrade tools](#) on the IBMLink website.

For software prices, select "Look up IBM System z<sup>(R)</sup> software prices (ESWPrice)" under "Prices." Specify "Price type," "Search type," and "Search value," then click "Search."

**Note:** Enter program number in the "Search value."

You can also contact your local IBM representative or IBM Business Partner for the applicable charges.

**Variable charges:** The applicable processor-based one-time charge will be based on the group of the designated machine on which the program is licensed for use. If the program is designated to a processor in a group for which no charge is listed, the charge of the next higher group listed applies. For movement to a machine in a higher group, an upgrade charge equal to the difference in the then-current charges between the two groups will apply. For movement to a machine in a lower group, there will be no adjustment or refund of charges paid.

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