



# IBM Service Management Suite for z/OS, V1.4.2 integrates System Automation solutions to offer modernized operations automation for increased availability on IBM z Systems

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## Overview

### **IBM<sup>(R)</sup> Service Management Suite for z/OS<sup>(R)</sup>, V1.4.2**

Service Management Suite for z/OS is a simply priced, easy-to-order package of products that provides automation, network management, performance and availability management, and asset discovery for critical business workloads that run on IBM z Systems™ hardware. It provides the tools necessary to support the dynamic growth of transaction workload and data sharing between mobile, cloud, and analytics platforms and the z Systems™ platform that drives organizations to modernize and optimize their systems that run in the IBM z™/OS environment.

Service Management Suite for z/OS contains:

- IBM Service Management Suite V1.1.2
- IBM Tivoli<sup>(R)</sup> OMEGAMON<sup>(R)</sup> Performance Management Suite for z/OS, V5.4.1
- IBM System Automation for z/OS, V4.1.0
- IBM Tivoli NetView<sup>(R)</sup> for z/OS, V6.2.1
- IBM Tivoli Asset Discovery for z/OS, V8.1.0

Downloads, software requirements, hardware requirements, and details of new capabilities for Service Management Suite for z/OS are provided in the [Customer access Portal for IBM Service Management Suite for z/OS](#).

### **System Automation for z/OS, V4.1.0**

System Automation for z/OS is a policy-based, self-healing, high-availability solution to optimize efficiency and availability of critical systems and applications. It is designed to reduce administrative and operational tasks; customization and programming effort; and automation implementation time and costs associated with Parallel Sysplex<sup>(R)</sup> automation and policy-based automation. Leveraging the tight integration with Geographically Dispersed Parallel Sysplex™ (GDPS<sup>(R)</sup>), System Automation for z/OS provides sophisticated disaster recovery capabilities for IBM z Systems.

Downloads, software requirements, hardware requirements, and details of new capabilities for System Automation for z/OS are provided in the [Customer access Portal for IBM System Automation for z/OS](#) .

## New features and enhancements

Version 4.1.0 provides enhancements that are focused on a completely new user experience, with a modernized management console to manage applications running beyond Parallel Sysplex barriers. This offering is designed to minimize users' efforts to reduce the costs of IT operation, lower risks, and improve system and application availability. New enhancements include:

- The introduction of Service Management Unite, a modernized graphical user interface that enables you to better operate and automate your application and resource management.
- Enhanced scope to automate applications and resources on multiple sysplexes without the need to manage dependencies manually.
- Capability to manage and automate critical applications running on different sysplexes with transparent and easy-to-use Service Management Unite dashboards.
- A new System Automation for z/OS analyze function (INGWHY) that provides expert guidance to operators, when an unexpected status of an automated resource appears. The analysis is valuable in error situations when operators must quickly restore service.
- A new and easy way to temporarily suspend automation for specific resources and their dependents without impacting the operations team by generating false alarms.
- JobLog Monitoring that:
  - Is enhanced to detect when a data set is spun off by JES. As a result, it monitors the new spool data set.
  - Can resume monitoring where it was before when NetView has to be recycled.
- System Automation for z/OS, which enables the user to filter automation requests by resource, by system or by request type.
- Alerts that can be sent by System Automation for z/OS using the NetView confirmed message adapter function, which can be used to guarantee delivery of alerts to the target of Event Integration Facility (EIF) events.
- System Automation for z/OS, which supports conditional operations on automation workstations jointly with the IBM Workload Scheduler product.
- New configurable peer grouping for SA-BCPii processor connections. This feature enables the optimization of the number of initial auto-connections, the elapsed hardware connection startup time, and the reduction of the SA-BCPii-related network traffic in a processor LAN environment.
- Processor operations connection start performance environments. New internal processor operations event registration logic optimizes the z Systems API calls at processor operations startup time (ISQSTART) and individual target connection starts (ISQXIII).
- New policies for z/OS Connect EE and OMEGAMON for JVM; updated policies for all OMEGAMON products; and enhanced policies that include support for SDSF and dynamic VIPA management.
- Supervision of the defined connections between IMS<sup>™</sup> and DB2<sup>(R)</sup>, IMS and MQ, CICS<sup>(R)</sup> and DB2, and CICS and MQ.
- Smart commands and options in the customization dialog to help optimize user productivity by quickly locating an existing object or creating new objects in the policy.
- Flexibility to set and receive the correct JES2 message prefix for use in customer scripts when it differs from the default.

System Automation for z/OS, V4.1.0 is the last release to support IBM zEnterprise<sup>(R)</sup> BladeCenter Extension (zBX) Hardware Management. I/O operations and the support of NetView Management Console (NMC) are not supported by System Automation

for z/OS, V4.1.0. Both functions have been removed from System Automation for z/OS, V4.1.0.

### ***Tivoli NetView for z/OS, V6.2.1***

NetView provides automation, and network and systems management to address agile business requirements on IBM z Systems. System and network automation provided by NetView addresses customers continued drive for increased IT availability. The growing amount of network requirements, caused by adding mobile devices and hybrid cloud implementations, increases the need for a complete network management solution to strengthen availability and maintain high quality of services.

#### **New features and enhancements**

Version 6.2.1 offers:

Performance improvements for Canzlog initialization and Canzlog remote browse by limiting the number of failed reads for archive data sets. Simplified Canzlog archive data set administration. Improved NetView initialization process resource utilization with a strong reduction of the messages that are written to in the system log and consoles. These messages continue to be available in Canzlog only, freeing system resources for improved operations.

- Improvements to the handling of hexadecimal strings and unpredictable blanks in message revision, command revision, automation table, and pipe functions, providing users with more flexible and functional automation definitions
- Enriched product publications through the documentation of global variables reflecting current Canzlog archiving status, enabling users to speed diagnosis

### ***Tivoli NetView Monitoring for GDPS, V6.2.1***

NetView Monitoring for GDPS is a major component in the IBM GDPS Active/Active continuous availability solution, which provides a comprehensive continuous availability and business continuity solution to support two or more data center sites, separated by unlimited distance, to help you achieve recovery point objective (RPO) and recover time objective (RTO) goals. NetView Monitoring for GDPS, in conjunction with NetView for z/OS, enables and provides the monitoring of the IBM Multi-Site Workload Lifeline product, replication products, and other managed elements, as well as automation of events and processes for the solution to reduce recovery time and increase efficiency in the use of system resources.

#### **New features and enhancements**

Version 6.2.1 offers:

- Monitoring of Multi-site Workload Lifeline workload servers is extended to include MQ workload clusters.
- Monitoring support for a proxy database or file system configuration provides zero data loss when using mirrored disks between the two sites and software replication in one site.
- Monitoring of InfoSphere<sup>®</sup> Data Replication for DB2 for z/OS is extended to include more performance metrics.
- Monitoring of InfoSphere Data Replication for VSAM for z/OS is extended to include monitoring of the apply exit name.

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## **Key prerequisites**

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

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## **Planned availability date**

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## Description

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### Value Unit-based pricing

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Value Unit pricing for eligible IBM z Systems IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each z Systems 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 System z<sup>\(R\)</sup> 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, refer to the [Terms and conditions](#) section.

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## Product positioning

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The value of Service Management Suite for z/OS, V1.4.2 is to provide users with a comprehensive set of service management functions on IBM z Systems, which helps organizations to effectively manage the growing complexity of IT environments. The integration of automation and performance management functions supported by modern, innovative dashboards enables organizations to effectively operate their z Systems environments. The functional scope consists of Java™ on z/OS, IBM CICS Transaction Server on z/OS, IBM CICS Transaction Gateway on z/OS, IBM IMS, IBM DB2, IBM WebSphere<sup>(R)</sup> Application Server on z/OS, and IBM MQ, in addition to z/OS

infrastructure, storage, and network operations. The suite offers breadth and depth of coverage of your service management needs.

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## Reference information

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Refer to the following Software Announcements for more information about the products that are included in Service Management Suite for z/OS, V1.4.2:

- IBM Tivoli NetView for z/OS, V6.2, in Software Announcement [213-445](#), dated October 22, 2013
- IBM Service Management Unite V1.1.2, in Software Announcement [216-048](#), dated February 16, 2016
- IBM Tivoli Asset Discovery for z/OS, V8.1 in Software Announcement [213-036](#), dated February 12, 2013

Refer to the following Software Announcement for more information about the products that are included in IBM Tivoli OMEGAMON Performance Management Suite for z/OS, V5.4.1:

- IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.4.0, in Software Announcement [216-345](#), dated October 4, 2016

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## 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<sup>®</sup> ID and password are required (use IBMid).

[BP Attachment for Announcement Letter 217-086](#)

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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-AAF	1.4.2	IBM Service Management Suite for z/OS
5698-SA4	4.1.0	IBM System Automation for z/OS

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## Product identification number

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Program PID number	Subscription and Support PID number
5698-AAF	5698-AAG
5698-SA4	5698-S48

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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 are available for ordering. To order, use the Publications Center or contact your IBM representative.

### Service Management Suite for z/OS, V1.4.2 (5698-AAF)

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

### IBM System Automation for z/OS, V4.1.0 (5698-SA4)

Title	Publication number
IBM System Automation for z/OS, V4.1.0 Program Directory	GI13-4184
IBM System Automation for z/OS, V4.1.0 License Information CD	LC27-8746

Service Management Suite for z/OS, V1.4.2 product documentation is published in [IBM Knowledge Center](#), which can be viewed from a web browser with internet access and will be available on March 17, 2017.

System Automation for z/OS, V4.1.0 product documentation is published in [IBM Knowledge Center](#), which can be viewed from a web browser with internet access and will be available on March 17, 2017.

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## Services

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### Software Services

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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

IBM System Automation for z/OS, V4.1 runs in a virtual storage environment on any IBM or non-IBM system configuration with sufficient storage to support the IBM z/OS operating system. The Processor Operations component supports IBM z Systems hardware from IBM System z10<sup>(R)</sup> and higher.

For additional information, refer to the [Reference information](#) section for links to the individual announcements for each product. The Hardware requirements section in each announcement gives detailed information for each product.

### **Software requirements**

IBM System Automation for z/OS V4.1 runs as an application on the IBM z/ OS operating system. Programming requirements for all functions:

- IBM z/OS V2.1, or later
- IBM Tivoli NetView for z/OS (5697-NV6), V6.2.1
- Other optional functional programming requirements

For additional information, refer to the Program Directory (or *Planning and Installation manual*).

For additional information, refer to the [Reference information](#) section for links to the individual announcements for each product. The Software requirements section in each announcement gives 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 (refer to the [Publications](#) section)
- 3590 Tape

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.

#### **Direct customer 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**

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The programs in this announcement 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.

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## **Ordering information**

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

<b>Program number</b>	<b>Program name</b>	<b>Value Unit exhibit</b>
5698-AAF	IBM Service Management Suite for z/OS	VUE007
5698-SA4	IBM System Automation for z/OS	VUE020

For each z Systems IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

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

**Value Unit exhibit VUE007**

	<b>MSUs minimum</b>	<b>MSUs maximum</b>	<b>Value Units/MSU</b>
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 z Systems IPLA product, the applicable Value Units would be:

<b>Tier</b>	<b>MSUs</b>	<b>Multiplied by Value Units per MSU</b>	<b>Equal Value Units</b>
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.

**Value Unit exhibit VUE020**

<b>Level</b>	<b>Minimum</b>	<b>Maximum</b>	<b>Value Units/MSU</b>
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 via the traditional IBM ordering process. For more details and availability, visit [Shopz](#).

**Charge metric**

<b>Program name</b>	<b>Program number</b>	<b>Charge metric</b>
IBM Service Management Suite for z/OS, V1.4.2	5698-AAF	Value Unit



Program name	Program number	Charge metric
IBM System Automation for z/OS, V4.1.0	5698-SA4	Value Unit

## 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

	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.

The entitlement identifier and orderable supply IDs for IBM Service Management Suite for z/OS, V1.4.2 are unchanged from the previous release. Refer to the Ordering information section in Software Announcement [216-048](#), dated February 16, 2016.

The following entitlement identifiers and orderable supply identifiers are new.

### Program name: IBM System Automation for z/OS, V4.1.0

#### Program PID: 5698-SA4

Entitlement identifier	Description	License option/Pricing metric	
S01854W	SA for z/OS V4	Basic OTC, per Value Unit MultiVersion Measurement No Charge	
		Basic OTC, per MSU-day TUC	
Orderable supply ID	Description	Language	Distribution medium
S01854V	SA for z/OS V4	English US	Tape cartridge
S01854T	SA for z/OS V4	Japanese	Tape cartridge

#### Subscription and Support PID: 5698-S48

Entitlement identifier	Description	License option/Pricing metric	
S010BVV	SA for z/OS 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	Description	Language	Distribution medium
S010C0H	SA for z/OS S&S	English US	Hardcopy publication
S010C0J	SA for z/OS S&S	Japanese	Hardcopy publication

### 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**

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Product deliverables are shipped only through CBPDO and ServerPac. These customized offerings are offered for internet delivery in countries where Shopz product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, go to the Help section on the [Shopz](#) website.

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

- 3590
- 3592

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

For additional information about the Product ServerPac option, refer to Software Announcement [212-272](#), dated July 31, 2012.

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin 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.

### **Agreement for Acquisition of Software Maintenance**

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

### **License Information number**

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<b>Description</b>	<b>Form number</b>
IBM Service Management Suite for z/OS, V1.4.2	LC27-6399
IBM System Automation for z/OS, V4.1.0	LC27-8746

See the [License Information documents](#) page on the IBM Software License Agreement website for more information.

### **Limited warranty applies**

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Yes

### **Limited warranty**

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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**

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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.

### **Program support**

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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**

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

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

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

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No

### **Passport Advantage applies**

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No

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

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

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

Additional details regarding Technical Assistance, which includes IBM contact information, are provided in the [IBM 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 time frame 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

### **System i Software Maintenance applies**

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No

### 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 customers.

### Products eligible for single version charging

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Replaced program		Replacement program	
Program number	Program name	Program number	Program name
5697-B82	IBM Tivoli NetView for z/OS 390 V1	5698-AAF	IBM Service Management Suite for z/OS, V1.4.2
5697-ENV	IBM Tivoli NetView for z/OS V5	5698-AAF	IBM Service Management Suite for z/OS, V1.4.2
5697-NV6	IBM Tivoli NetView for z/OS V6	5698-AAF	IBM Service Management Suite for z/OS, V1.4.2

### Sub-capacity terms and conditions

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For each z Systems IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the required license capacity. Your required license capacity is based upon the following factors:

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

For more information about the Value Unit Exhibit for the z Systems IPLA program you selected, refer to the [Ordering information](#) section.

Program number	Program name	Terms
5698-AAF	IBM Service Management Suite for z/OS	z/OS-based
5698-SA4	IBM System Automation for z/OS	Execution-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 a z Systems IPLA program with these terms equals the MSU-rated capacity of the machines where the z Systems IPLA program executes.

IBM full-capacity ratings that can be found on the Mainframe Exhibits section of the [IBM z Systems Software Contracts](#) website.

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

### Sub-capacity mainframes

In cases where sub-capacity is applicable, the following terms apply.

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

**z/OS based:** The required license capacity of a z Systems IPLA program with these terms equals the license capacity of z/OS on the machines where the z Systems IPLA program executes.

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

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

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

For additional information for products with reference-based terms, z Systems IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the z Systems IPLA program executes.

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

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

- Where MLC pricing is aggregated across the sysplex

### ***Sub-capacity eligibility***

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

- All instances of the OS/390<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, refer to the [IBM z Systems Software Pricing](#) website.

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

- The complete terms and conditions of sub-capacity WLC are defined in the *IBM Customer Agreement - Attachment for z Systems Workload License Charges (Z125-6516)*.

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

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - *Amendment for Amendment for IBM z Systems Programs Sub-Capacity Pricing* (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous z Systems IPLA sub-capacity terms and conditions.

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

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

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

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

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## **Prices**

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

For software prices, select "Look up IBM System z 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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## **Corrections**

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### **(Corrected on April 12, 2017)**

Revised Ordering information section.

### **(Corrected on April 7, 2017)**

Revised Ordering example Value Unit exhibit table in Ordering information section.

### **(Corrected on March 30, 2017)**

Revised Ordering information section.