

IBM Z Operations Analytics, V3.2, formerly known as IBM Operations Analytics for z Systems, delivers powerful operational insights across industry-leading analytics platforms

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At a glance

IBM Z^(R) Operations Analytics, V3.2 builds on the enterprise-wide operational insights delivered in previous releases to provide the following significant enhancements:

- Analyzes IBM Z operational data in a broader enterprise context leveraging the Z Operations Analytics quick searches and data visualization dashboards across industry-standard platforms, such as IBM^(R) Operations Analytics - Log Analysis, Splunk, and Elasticsearch
- Can view operational insights at a glance with a Problem Insights dashboard view, providing summarizations of key operational issues along with actionable advice to accelerate further problem investigation and resolution

Z Operations Analytics leverages IBM Common Data Provider for z Systems^(R), V1.1 to stream a broad array of IBM Z operational data in near real time for instant data analysis.

Overview

Z Operations Analytics

Z Operations Analytics helps enable users to rapidly search, visualize, and analyze the vast amounts of structured and unstructured operational data across IBM Z operating environments, including log, event, and service performance metrics in multiple industry leading analytics platforms. This solution provides organizations with the tools they need to accelerate problem identification, isolation, and resolution across the entire enterprise from a single interface.

Building on this foundation, Z Operations Analytics, V3.2 introduces the following significant enhancements.

Support for multiple enterprise wide analytics platforms

Z Operations Analytics provides users with the ultimate flexibility for gaining insight into IBM Z operational data. Common Data Provider for z Systems, included with Z Operations Analytics, can be used to stream in near real-time IBM Z operational data to analytics platforms, such as IBM Operation Analytics - Log Analysis, Splunk, and Elasticsearch. Z Operations Analytics delivers powerful operational insights as native applications on those platforms to rapidly search, visualize, and analyze

the data helping to ensure that operations can comply with business service level agreements (SLAs) and avoid system outages.

Advanced platform capabilities

Z Operations Analytics provides content to leverage unique features of the analytics platforms it supports. For example, users can leverage a set of IBM Z specific Key Performance Indicators (KPIs) in Splunk IT Service Intelligence to understand how IBM Z supports key business services where IBM Z had previously been a blind spot.

Enhanced Problem Insights

Problem Insights provides a rapid view into operational data that allows operations teams to quickly visualize key operational issues along with best practice recommended actions for resolution. New with Z Operations Analytics V3.2, on the Splunk and Elastic platforms, users are able to customize the Problem Insights by adding their own suggested actions to an existing Problem Insight, and they can also add new Problem Insights.

Key prerequisites

IBM Z environments with the appropriate operating system.

For details, see the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

September 21, 2018

Description

The explosion in big data, as a result of the digital transformation, poses a major challenge for businesses. The source of problems that is encountered in business operations is often in the IT infrastructure that supports business applications. Subject matter experts can be overwhelmed with finding the relevant information that is buried in volumes of distracting data that flow from multiple systems and applications. They need to manually parse, correlate, and attempt to understand the cause, location, and scope of a problem, a process that can take too long to be effective, especially in a war room situation. In addition, many organizations operate in distinct silos leveraging different tools where they lack end-to-end visibility.

The operational analytics offerings from IBM address these challenges in multiple ways.

Z Operations Analytics includes Common Data Provider for z Systems to stream IBM Z operational data in near real time to Operations Analytics - Log Analysis, Splunk, and Elasticsearch, which helps organizations perform rapid data analytics.

Z Operations Analytics provides application owners, application developers, and subject matter experts of all levels of experience with actionable insights into the health of their IT operations environment, offering efficient ways to accelerate problem identification, isolation, and repair.

Capabilities:

- Surface common issues that are hidden in the operational data and use suggested actions to accelerate problem resolution.
- Significantly reduce time required for root cause analysis by rapidly searching, filtering, and visualizing results from log, event, and performance data in a single application.

- Harness the domain expertise of IBM Z through domain-specific standard insights and expert advice.
- Facilitate knowledge exchange between IT personnel by sharing saved searches, leveraging run book knowledge, and creating custom dashboards.

Z Operations Analytics, V3.2 provides the following significant enhancements that enable you to better manage your Z Operations Analytics environment:

- Support for multiple enterprise wide analytics platforms. Z Operations Analytics provides organizations the ultimate flexibility for gaining insight into IBM Z operational data. Common Data Provider for z Systems, included with Z Operations Analytics, can be used to stream in near real-time IBM Z operational data to Operations Analytics - Log Analysis, Splunk, and Elasticsearch. With advanced filtering and the ability to stream data to multiple targets, Common Data Provider for z Systems lets you analyze your data where you need it most. Z Operations Analytics delivers powerful operational insights based on years of IBM expertise as native applications on Operations Analytics - Log Analysis, Splunk, and Elasticsearch. Insights gathered from quick searches, dashboards, and problems give users the ability to analyze and gain a look into their IBM Z operational data long with data from the rest of their enterprise.
- Z Operations Analytics continues to provide instant data analysis across multiple subsystems to help users quickly identify problems that may impact business SLAs and cause system downtime.
- Near real-time operational insights into business-critical applications and their supporting infrastructure. Z Operations Analytics Problem Insights dashboard provides at-a-glance insights into key operational issues. This dashboard delivers a summarization of key issues per sysplex and offers actionable advice to accelerate further problem investigation and resolution.

Accessibility by people with disabilities

A US Section 508 Accessibility Compliance Report containing details on accessibility compliance can be found on the [Product accessibility information](#) website.

Value Unit-based pricing

Value Unit pricing for eligible IBM z Systems^(R) 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^{\(R\)} 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.

Business Partner information

If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld^(R) ID and password are required (use IBMid).

[BP Attachment for Announcement Letter 218-165](#)

Statement of general direction

As many users face challenges with increasing workloads, strict business service level agreements (SLAs), and regulatory compliance, IBM intends to continue to make enhancements to the Problem Insight dashboard available in Z Operations Analytics to help organizations ensure their IT operations meet their business goals.

Enhancements to Problem Insights can include additional single and multiple variable insights as well as additional data analytics across a variety of subsystems. Some of these new insights are expected to advance the existing IBM System z Advanced Workload Analysis Reporter (IBM zAware) anomaly detection by leveraging new IBM Machine Learning for z/OS^(R) models and problem signatures based on IBM data science and expertise to forecast when system behavior may lead to broader user impacts and system outages. Users can expect to be alerted to system behavior changes based on historical data trend analysis across multiple subsystems.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remain at our sole discretion

Program number

Program number	VRM	Program name
5698-ABH	3.2.0	IBM Z Operations Analytics

Product identification number

Program PID number	Subscription and Support PID number
5698-ABH	5698-AAQ

Publications

No publications are shipped with these products.

Z Operations Analytics, V3.2.0 documentation is published in [IBM Knowledge Center](#).

Publications can be viewed from a web browser with internet access.

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.

Technical information

Specified operating environment

Hardware requirements

Note: The hardware requirements may vary according to the volume of data ingested or managed by the program. See the Z Operations Analytics, V3.2 documentation for further details and updates about hardware requirements.

For the zAware feature, IBM zEC12, zBC12, or z13^(R) hardware is required. The zAware feature must be installed into a Linux^(R)-type or Secure Service Container LPAR.

Software requirements

Operations Analytics -- Log Analysis

- Minimum version: 1.3.5
- Running on:
 - Java[™]: imbedded
 - Red Hat on x86, Linux on IBM Z, or IBM POWER8^(R)
 - Red Hat 6.x, 7-7.4
 - SUSE Linux Enterprise Server (SLES) on x86, Linux on IBM Z, or POWER8
 - SLES 11 or 12
- Microsoft[™] Windows[™] Server is not supported.

Splunk

- Minimum version: 6.6
- Running on:
 - Java 8, or later
 - Windows

- Windows 8, 10, Windows Server 2008R2, Server 2012, Server 2012R2
- Red Hat on x86
 - All Kernels 2.6, 3.x, or 4.x (Red Hat 4, or later)
- SLES on x86
 - All Kernels 2.6, 3.x or 4.x (SLES 8, or later)
- Red Hat and SLES on Linux on IBM Z and POWER8 are not supported.

Splunk IT Service Intelligence

- Minimum version: 3

Elasticsearch

- Minimum version: 6.1
- Running on:
 - Java 8
 - Windows Server
 - Windows Server 2008, 2012, and 2016
 - Red Hat on x86, Linux on IBM Z, or POWER8
 - Red Hat 6 or 7
 - SLES on x86, Linux on IBM Z, or POWER8
 - SLES 11 or 12

Note: The software requirements may vary depending on your specific configuration. See the Z Operations Analytics, V3.2 documentation for further details and updates about software requirements.

IBM Electronic Support

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement. Read about the Electronic Support portfolio of tools on the [IBM Electronic Support](#) website.

You can also access the [IBM Support Portal](#) page and the online [Service requests and PMRs](#) tool for more support.

Planning information

Packaging

Each Z Operations Analytics program package consists of:

- Insight Packs to manage supported z/OS log types, to provide standard domain knowledge and search capabilities for operational data, and to deliver advanced operational insights. The Insight Packs are installed on the analytics server.
- Operations Analytics - Log Analysis V1.3.5
- Common Data Provider for z Systems V1.1

Security, auditability, and control

Z Operations Analytics uses the security and auditability features of the host 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.

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 z Systems 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 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

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 the [Shopz](#) website.

Charge metric

Definitions of the charge metric for this licensed product can be found in the following License Information document:

Program name	PID number	Charge metric	License Information document number
IBM Z Operations Analytics	5698-ABH	Value Unit	L-EGON-B2QQW6

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

Basic license

Translation from MSUs to Value Units

	MSUs	Value Units/MSU
Base	1-3	3.0
Tier A	4-45	18.90
Tier B	46-175	46.80
Tier C	176-315	37.80
Tier D	316+	237.0

The entitlement identifier and orderable supply IDs are unchanged from the previous release, see the Ordering information section in Software Announcement [216-373](#), dated September 13, 2016.

Subscription and Support

To receive voice technical support through telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products through a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance. This offering:

- Includes and extends the support services provided in the base support to include technical support through telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

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

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA S/390^(R) and z Systems license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order **both** the license for the program and the support for the selected programs at the same Value Unit quantities.

Trade up

Clients with Operations Analytics for z Systems, V2.1.0 or V2.2.0, as well as clients with zAware V1.0 or V2.0, may trade up or migrate to Z Operations Analytics, V3.2. Clients must have active Subscription and Support (S&S) for the replaced product. Clients are eligible for an entitlement to the replacement product that is equivalent to the entitlement they previously purchased for the replaced product. Additional entitlement will be available at discounted rates.

IPLA replaced product	IPLA replacement product
IBM Operations Analytics for z Systems, V3.1.0 (5698-ABH)	IBM Z Operations Analytics, V3.2.0 (5698-ABH)

Customized Offerings

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 the 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.

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.

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Software Maintenance

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

License Information number

The following License Information document applies to the offering in this announcement:

Program identifier	License Information document title	License Information document number
5698-ABH	IBM Z Operations Analytics	L-EGON-B2QQW6

Select your language of choice and scroll down to the Charge Metrics section. Follow-on releases, if any, may have updated terms. See the [License Information documents](#) 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 on 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 on the IBM Software Support Lifecycle Policy, see the [IBM Software Support Lifecycle Policy](#) website.

Money-back guarantee

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

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

Volume orders (IVO)

No

Passport Advantage applies

No

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.

IBM Operational Support Services - SoftwareXcel

Yes

Variable charges apply

No

Educational allowance available

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

Multi-Version Measurement

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](#) web page.

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, see the [Ordering information](#) section.

Program number	Program name	Terms
5698-ABH	Z Operations Analytics	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 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, go to the [IBM z Systems Software Contracts](#) website.

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

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^(R) 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^(R) (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 [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 System z Workload License Charges (Z125-6516).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - *Amendment for IBM System z9^(R) 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.

Statement of good security practices

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.

Prices

For all local charges, contact your IBM representative.

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Phone: 800-IBM-CALL (426-2255)

Fax: 800-2IBM-FAX (242-6329)

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Note: Shipments will begin after the planned availability date.

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