IBM Operational Decision Manager for z/OS, V8.7 offers improved operational efficiency and expanded usage tracking

Table of contents

At a glance

IBM® Operational Decision Manager (IBM ODM) for z/OS®, V8.7 delivers new and enhanced capabilities, plus additional deployment options:

- New simulation capabilities within the Business Console
- Expanded, decision tracking information
- Improved, embedded batch zRES support
- Ability to utilize a WebSphere® Application Server Liberty profile for Rule Execution Servers (RES) on z/OS
- Effective Decision Simulation services for the z/OS applications
- Assisted Application lifecycle integration

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: LE001).

Overview

IBM Operational Decision Manager (IBM ODM) for z/OS, V8.7 enhances the Smarter Process portfolio by enabling you to identify business situations and make decisions faster. It provides a comprehensive and easy-to-use platform that allows you to detect situations in real time and capture, automate, and manage frequently occurring, repeatable business decisions. As a result, you can better identify opportunities, respond to market demands, minimize risks, and operate consistently.

In IBM ODM for z/OS, V8.7, end-to-end simulation capabilities empower business stakeholders to define key performance indicators (KPI), simulation scenarios, and custom graphical reports with no support from IT.

To be effective, decision management needs to execute in production environments with minimal resource impact and optimal execution performance. IBM ODM for z/OS, V8.7 allows more flexibility in the configurations for its embedded zRule Execution Server for batch decisions, which streamlines the decision execution process for batch applications. Rule Execution Servers that operate in WebSphere Application Server environments can utilize the Liberty profile, which offers major reductions in memory and start time requirements to provide Web Service, RESTful services, and rule testing endpoints as well as to host RES Consoles. IBM ODM for z/OS, V8.7 expands the information it provides in SMF 120 records to improve the ability to track and manage decision usage on z/OS.

IBM ODM supports organizations in virtually every industry by:

- Automating and governing operational decision-making across business processes and applications to help improve business insight and outcomes consistently
- Helping detect opportunities and risks in real time
- Easily and consistently helping business stakeholders implement, test and deploy decision changes to meet new market demands and policy requirements
- Understanding how business decisions that drive operations are made
- Applying decisions consistently across applications

Key prerequisites

IBM System z® processor, which includes z10™, zEnterprise®, or an equivalent hardware server that is capable of running z/OS V2.1 or V1.13.

For details, refer to the Hardware requirements and Software requirements sections.

Planned availability date

December 12, 2014

Description

The ability to effectively automate decision making within and across business systems helps maximize organizational efficiency. This helps to increase employee productivity, and improve the quality and consistency of operational decisions that are made repeatedly in the course of the business day.

IBM ODM for z/OS, V8.7 helps address decision-automation challenges by enabling organizations to build highly flexible, adaptable solutions that can detect and react to threats and opportunities and quickly adapt to changing business conditions. IBM ODM for z/OS, V8.7 provides extended control to stakeholders to help manage the automated decisions for which they are responsible. IBM ODM for z/OS, V8.7 enables business policy updates to be more easily managed and governed.

IBM ODM for z/OS, V8.7 includes:

- New simulation capabilities for the business user

  These new simulation capabilities provide the business users with full autonomy in the task of evaluating policy performances against business objectivesand predicting impact of changes. Business metrics, key performance indicators, such as the percentage of authorized loans, data used to run the simulation, and simulation reports are defined from within the Business Console. KPIs are defined using natural language and simulation reports using a point and click graphical interface.

- Expanded decision tracking information

  IBM introduced the ability to track the calls made to decision servers deployed throughout the z/OS environment by using z/OS Systems Management Facilities (SMF) in IBM ODM for z/OS V8.5.1. IBM ODM produced SMF 120 records containing the number of calls to the decision servers and ruleset path. In response to customer feedback, IBM ODM for z/OS V8.7 has expands the SMF 120 record to include ruleset execution statistics to complement the usage information with wall clock and Java™ CPU execution time for the interval. The SMF records also provide version information to allow SMF reduction programs to handle the original and expanded record content.

- Improved embedded batch zRES support

  A major amount of the work that supports today's businesses is handled in z/OS batch execution environments. It is crucial that business decisions made in batch are as fast and efficient as they are in the transaction environments such as CICS® and IMS™. IBM ODM for z/OS, V8.6 introduced the ability to embed the zRule Execution Server (zRES) in the z/OS batch job address space. By sharing the same address space with the COBOL or PL/I application, the process of getting the data that provides the context for the decision from the application to the zRES and back becomes more streamlined. This improves the performance of the decision, especially when processing a large number of decisions or where large amounts of data are required.

  IBM continues to improve the embedded batch zRES capability with IBM ODM for z/OS, V8.7 by removing some of the restrictions on the use of this zRES option. This is accomplished by enabling the embedded zRES to operate not just in the presence of a classic z/OS zRES, but alternatively in the presence of a Rule Execution Server (RES) Console or a RES Test Server address space. SMF 89 record production has been enabled for the embedded zRES in addition to the SMF 120 records used to track RES and zRES usage.

- Ability to utilize a WebSphere Application Server Liberty profile for Rule Execution Servers (RES) on z/OS

  IBM ODM for z/OS, V8.7 can take advantage of the WebSphere Application Server for z/OS Liberty profile. Liberty is a lightweight profile of the server for web applications featuring significant reductions in the required memory and improvements in startup times. Applications can use Representational State Transfer (REST) and Web services to access the ODM RES server running in a WebSphere Application Server for z/OS Liberty profile. IBM ODM for z/OS, V8.7 offers configuration assists to help configure and deploy this new lightweight RES environment.

- Effective Decision Simulation services for the z/OS applications

  Changing business decisions in complex processes comes with risks. It is important to be able to understand the effect of changes before they are implemented in production. While simulation has long been part of the ODM offering, its capabilities were limited and only accessible from the IT oriented Enterprise Console interface of Decision Center. IBM ODM for z/OS, V8.7 offers enhanced simulation facilities as part of the Decision Center component for z/OS applications. IBM ODM for z/OS, V8.7 has incorporated enhanced simulation services into its Decision Center offering and made simulation accessible from the business-user-oriented Business Console.

- Assisted application lifecycle integration

  The z/OS IT community closely manages application lifecycle processes as a means for controlling change and limiting business risks. IBM ODM for z/OS, V8.7 includes samples of how to use its scripting environment to integrate Rule Execution Server deployments into your existing application lifecycle processes.

IBM ODM for z/OS, V8.7 consists of several orderable products, which together form a comprehensive platform for the management and execution of business rules and business events:

- Decision Center for z/OS, V8.7

  Provides an integrated repository and management components for line-of-business, subject-matter experts to directly participate in the definition and governance of rules-based, decision logic. Through the capabilities of Decision Center, which includes the Business Console, business and IT functions can work collaboratively to align the entire organization in the implementation of automated decisions and to accelerate the maintenance lifecycle as they evolve based on new external and internal requirements.

- Decision Server for z/OS, V8.7

  Provides the run-time and development components to automate decision logic. It enables the detection of actionable business situations and the response of

precise decisions that are based on the specific context of an interaction. With Decision Server, organizations can monitor a business network to discover and take action on event-based data patterns, as well as process information against hundreds or even thousands of business rules to determine how to respond within both front-end systems and back-end systems.

Decision Server for z/OS provides specific runtime options that are designed to handle the unique aspects of business rule and business event execution. For business rule execution, four, separate run-time options are provided, to allow development teams to choose a deployment strategy that best fits their mainframe applications and architecture.

A separate product offering, IBM Business Rules for z/OS, provides the same business-rule-execution capabilities that are packaged within Decision Server for z/OS to improve automation and maintainability of rule-based decision logic. Business Rules for z/OS, V8.7 provides the business-rules-specific, run-time components of Decision Server, for applications that are focused on decision automation and do not require event-based data pattern detection. Four, different rule-execution options are provided to allow development teams to build business rule solutions that meet the specific needs of their mainframe applications and architecture.

IBM ODM provides the ability to effectively automate a wide range of decisions across business processes and applications. Some examples of these kinds of decision-management applications include:

- Product and promotional offers
- Eligibility and pricing determinations
- Case and customer prioritizations
- Risk assessments and fraud determinations

IBM ODM helps organizations adapt quickly to changing conditions, align across business and IT, and act with precision and reliability. It provides visibility to achieve clearer line of sight to business operations, collaboration capabilities to help foster cross-functional and cross-divisional outcomes, and built-in governance to align business operations with strategic intent in the face of change.

Accessibility by people with disabilities

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

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

Value Unit-based pricing

Value Unit pricing for eligible IBM System z IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each System z IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity.** Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three digit code and referred to using the nomenclature VUExxx, where xxx is the three digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as **entitled license capacity.** If you wish to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool website

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

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

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

Product positioning

Decision management is a business discipline that enables organizations to automate, optimize and govern repeatable business decisions. It involves both the ability to make the best possible decision at the current moment based on data and situational context, as well as the ability to use data to discover insights that can be used to continually improve decisions over time. These decisions may be fully automated (for example, through an online application or a self-service, point-of-sale system) or they may be used to provide decision support to people (for example, through a system used at a call center, branch, or store location, or in the back office).

IBM ODM for z/OS,V8.7 provides a comprehensive and easy-to-use platform that allows you to detect situations in real time and capture, automate, and govern frequently occurring, repeatable business decisions. As a result, you can better identify opportunities, respond to market demands, minimize risks, and operate consistently.

Reference information

For additional information on IBM ODM for z/OS, V8.6 and Business Rules for z/OS, V8.6, refer to 214-137, dated April 22, 2014..

For additional information on IBM ODM for z/OS, V8.5.1 and Business Rules for z/OS, V8.5.1, refer to 213-408, dated October 1, 2013.

For additional information on IBM ODM V8.7, refer to 214-415, dated October 1, 2014.

Availability of national languages

Description	Availability date	Language
IBM Operational Decision Manager for z/OS, V8.7	December 12, 2014	Multilingual (Chinese Simplified, Chinese Traditional, Dutch, English US, French, German, Italian, Japanese, Korean, Polish, Portuguese Brazilian, Russian, Spanish)
IBM Business Rules for z/OS V8.7	December 12, 2014	Multilingual (Chinese Simplified, Chinese Traditional, Dutch, English US, French, German, Italian, Japanese, Korean, Polish, Portuguese Brazilian, Russian, Spanish)

For the current list of supported languages, visit

http://www-01.ibm.com/software/websphere/ilog_supported_languages.html

Program number

Program number	VRM	Program name
5655-Y17	8.7.0	IBM Operational Decision Manager for z/OS
5655-Y31	8.7.0	IBM Business Rules for z/OS

Product identification number

IBM ODM for z/OS, V8.7

Program PID number	Subscription and Support PID number
5655-Y17	5655-Y08

IBM Business Rules for z/OS, V8.7

Program PID number	Subscription and Support PID number
5655-Y31	5655-ILH

Business Partner information

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

https://www.ibm.com/partnerworld/mem/sla.jsp?num=214-416

Additional information

Consulting and services

Professional services are available to help clients get into production quickly and, if desirable, to assist with planning and growing into full-blown business integration solutions. These services can be provided through our IBM Business Partner community or through IBM Global Services.

To contact a Software Services sales specialist, visit

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

Education support

Education is a key component to ensuring software success. IBM creates a comprehensive portfolio of education material to help customers successfully deploy IBM software products to their maximum potential. The IBM education team is committed to providing the highest quality education content available to help your organization prosper in today's competitive marketplace.

The IBM education team works closely with IBM product developers and IBM services organizations to ensure that the courses we offer provide the most current technical and product information. Our courses place an emphasis on the advanced knowledge and insight that only these sources can provide. We draw from a deep pool of IBM technical experience in the development of our courses, and pass that knowledge on to our students. Our courses emphasize hands on labs to develop comprehensive skills in using the product to solve business problems. The education offerings from IBM Training span the spectrum of skill needs, from introductory product overviews to advanced programming and product administration courses.

Role-based, training paths can be found at

http://www.ibm.com/software/websphere/education/paths/

The delivery of IBM education is provided by IBM Global Training Partners.

For more information about available education offerings, search on the product name at

http://www.ibm.com/training

Offering Information

Product information is available via the Offering Information website

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

Publications

The following publications are shipped with this program:

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Title                                      Order number

IBM Operation Decision Manager for z/OS, V8.7    GI11-9605
 - Program Directory

IBM Business Rules for z/OS, V8.7                GI11-9606
 - Program Directory
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Effective December 12, 2014, the English and national language versions of the IBM ODM for z/OS, V8.7 documentation will be available on IBM Knowledge Center at

http://www.ibm.com/support/knowledgecenter/SSQP76_8.7.0/

Technical information

Specified operating environment

Hardware requirements

IBM System z processor, which includes IBM System z10®, IBM zEnterprise, or an equivalent hardware server, capable of running z/OS V2.1 or z/OS 1.13, or later.

Software requirements

IBM ODM for z/OS, V8.7 supports the following:

- z/OS V2.1
- z/OS V1.13

Visit the following website for a complete detailed list of hardware and software requirements for IBM Decision Server for z/OS, V8.7, IBM Decision Center for z/OS, V8.7, and IBM Business Rules for z/OS, V8.7

http://www.ibm.com/support/docview.wss?uid=swg27023067

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Limitations

Refer to Usage restriction topic in the Terms and conditions section of this announcement, or to the License Information document that is available on the IBM Software License Agreement website

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

Planning information

Direct customer support

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

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

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

http://www.ibm.com/support

Packaging

The IBM Decision Server for z/OS, V8.7 product package includes the following:

- 3590 tape
- Decision Server Windows™ DVDs
- License Information for Operational Decision Server for z/OS (GC34-2740)
- Program Directory - IBM Operational Decision Manager for z/OS, V8.7 (GI11-9605)
- Program Directory - WebSphere Application Server for z/OS, V8.5 (GI11-9488)

The IBM Decision Center for z/OS, V8.7 product package includes the following:

- 3590 tape
- Decision Center Windows DVD
- License Information for Operational Decision Center for z/OS, V8.5.1 (GC34-2739)
- Program Directory - IBM Operational Decision Manager for z/OS, V8.7 (GI11-9605)
- Program Directory - WebSphere Application Server for z/OS, V8.5 (GI11-9488)

The IBM Business Rules for z/OS, V8.7 product package includes the following:

- 3590 tape
- IBM Business Rules Decision Server Windows DVDs
- License Information for IBM Business Rules for z/OS (GC34-2741)
- Program Directory - IBM Business Rules for z/OS, V8.7 (GI11-9606)
- Program Directory - WebSphere Application Server for z/OS, V8.5 (GI11-9488)

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

Security, auditability, and control

IBM ODM for z/OS, V8.7 and IBM Business Rules for z/OS, V8.7 use 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.

Software Services

IBM Software Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an extensive portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support a wide range of critical business needs.

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

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

Ordering information

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 the Shopz website at

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

```
5655-Y17   IBM Operational Decision Manager for z/OS, V8.7

5655-Y08   IBM Operational Decision Manager for z/OS
              Software Subscription and Support

5655-Y31   IBM Business Rules for z/OS, V8.7

5655-ILH   IBM Business Rules for z/OS
              Software Subscription and Support
```

Charge metric

Program name	PID number	Charge metric
IBM Operational Decision Manager for z/OS, V8.7	5655-Y17	Value Unit
IBM Business Rules for z/OS, V8.7	5655-Y31	Value Unit

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

Program number	Program name	Value Unit exhibit
5655-Y17	IBM Operational Decision Manager for z/OS, V8.7	VUE007
5655-Y31	IBM Business Rules for z/OS, V8.7	VUE007

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

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

Value Unit exhibit VUE007

	MSUs minimum	MSUs maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Ordering example

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

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

```
Translation from MSUs to Value Units

        MSUs    *  Value Units/MSU = Value Units
Base        3  *  1.00             =    3.00
Tier A     42  *   .45             =   18.90
Tier B    130  *   .36             =   46.80
Tier C    140  *   .27             =   37.80
Tier D  1,185  *   .20             =  237.00

Total   1,500                          343.50
```

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Basic license

Ordering information remains unchanged. Refer to IBM ODM for z/OS, V8.5.1 213-408, dated October 1, 2013.

Subscription and Support

To receive voice technical support via 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 via 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 via 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® and System z 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.

Customized Offerings

Product deliverables are shipped only via CBPDO and ServerPac. These customized offerings are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the Shopz help information at

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

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

- 3590
- 3592

Most products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered via 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, visit the Help section on the Shopz website at

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

For additional information on the Product ServerPac option, refer to 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 two 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.

Agreement for Acquisition of Software Maintenance

TheIBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance

(voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

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

License Information number

IBM ODM for z/OS, V8.7

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Program name                          LI number

Decision  Center  for z/OS, V8.7      L-ASAY-9M9G86

Decision Server for z/OS, V8.7        L-ASAY-9M9GAB

Business Rules for z/OS, V8.7         L-ASAY-9M9G5H
```

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

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

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the *IBM Software Support Handbook* found at

   http://www.ibm.com/support/handbook

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

Program support

Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

Money-back guarantee

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

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

Volume orders (IVO)

No

Passport Advantage applies

No

Usage restriction

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

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

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

Software Subscription and Support applies

Yes. During the S&S 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 via telephone or electronically to address suspected Program defects. Technical assistance is available from the IBM support center in the customer's geography.

Additional details regarding technical assistance, that includes IBM contact information, are provided in the *IBM Software Support Handbook* at

http://www.ibm.com/support/handbook

S&S does not include assistance for:

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

S&S 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

Other support

SoftwareXcel

System i® Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

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

Sub-capacity terms and conditions

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

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

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

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Program                                      Parent,
number    Program name       Terms           if applicable

5655-Y17  IBM Operational    Execution-based  NA
          Decision
          Manager
          for z/OS, V8.7

5655-Y31  IBM Business       Execution-based  NA
          Rules for z/OS,
          V8.7
```

Full-capacity mainframes

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

Execution-based, z/OS-based, full-machine-based: The required capacity of a System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

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

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

Sub-capacity mainframes

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

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

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

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

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

For more information on mainframe MSU-rated capacities, refer to *The IBM System z Machines Exhibit,* (Z125-3901), or visit the Mainframes section of the System z Exhibits website.

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

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

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

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

Sub-capacity eligibility

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

- All instances of the OS/390® operating system must be migrated to the z/OS operating systems.
- Any licenses for the OS/390 operating system must be discontinued.
- All instances of the z/OS operating systems must be running in z/Architecture® (64-bit) mode.

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the System z Software Pricing website

http://ibm.com/zseries/swprice

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

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

Sub-capacity utilization determination

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 Capacity on Demand (CoD)

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for IBM System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

Statement of good security practices

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 comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

Prices information remains unchanged. Refer to IBM ODM for z/OS, V8.5.1 213-408, dated October 1, 2013.

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