IBM Advanced Analytics for z/OS integrates select analytics on IBM Z capabilities to deliver a focused, enterprise-scale analytics and machine learning solution

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At a glance

IBM Advanced Analytics for z/OS enables your organization to leverage its data in a security-rich environment with the same resiliency as your operational applications.

Key characteristics:

- Accelerate complex queries for data residing on IBM Z in support of analytics and data science efforts.
- Enable enterprise-grade machine learning by using open source technology, including Spark, Jupyter Notebooks, Scala, and Python, infused with proprietary technology from IBM Research.
- Access IBM Z and non-Z data sources, leveraging technology specifically optimized for IBM Z data.
- Gain access to Db2 for z/OS, IBM Information Management System, Virtual Storage Access Method (VSAM), and many other IBM Z data sources and data sources that are not IBM Z.
- Simplify data access to support pervasive application requirements for all data sources and access mechanisms.

Overview

IBM Advanced Analytics for z/OS includes capabilities to help clients collect, organize, and analyze their data while keeping the data in place on IBM Z. The solution is optimized for z/OS and includes the following components programs:

- IBM Db2 Analytics Accelerator on IBM Z delivers a workload optimized system that can help integrate analytic insights into operational processes.
- IBM Db2 Analytics Accelerator Loader for z/OS brings non-Db2 data to IBM Db2 Analytics Accelerator and IBM Z.
- IBM Machine Learning for z/OS provides an end-to-end machine learning solution that enables faster model training, deployment, and monitoring.
- IBM Open Data Analytics for z/OS simplifies data analysis by integrating key open-source analytics technologies with advanced data access and abstraction services.
- IBM Data Virtualization Manager for z/OS enables access to transactional mainframe data for any application, and virtualizes it with other enterprise data sources in real time.
IBM Db2 QMF™ for z/OS provides an enterprise business analytics and visualization solution that is optimized for z/OS data sources.

Capabilities delivered through IBM's Advanced Analytics for z/OS offering can help organizations leverage the IBM Z infrastructure and unique enterprise data at the point of interaction to deliver the insight that organizations need, when they need it. By eliminating data movement off IBM Z and bringing those capabilities to the data at the source on IBM Z, organizations benefit from the qualities of service, such as resiliency, availability, and security, that are hallmarks of IBM Z. Further, the vast majority of workload originating from Advanced Analytics for z/OS is eligible for processing on System z™ Integrated Information Processor (“zIIP”), which limits the impact to general processors.

Specifically, Advanced Analytics for z/OS enables clients to:

- Perform complex analytics on their most current data without impacting the performance of transactional production systems
- Incorporate relational and nonrelational data, structured and unstructured data, from any platform
- Build, deploy, score, and manage predictive analytics for the enterprise utilizing Machine Learning
- Integrate traditional and self-service business intelligence and collaboration

### Key prerequisites

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

### Planned availability date

June 15, 2018

### 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.

### Reference information

For more information about IBM DB2® Query Management Facility™ for z/OS, see Software Announcement [216-393](#), dated October 4, 2016.

For more information about IBM Machine Learning for z/OS, see Software Announcement [218-111](#), dated April 10, 2018.

For more information about Db2 Analytics Accelerator for z/OS, see Software Announcement [217-496](#), dated October 17, 2017.

For more information about IBM Open Data Analytics for z/OS, see Software Announcement [217-233](#), dated July 17, 2017.

### Program number

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5697-AAZ | 1.1.0 | IBM Advanced Analytics for z/OS Subscription and Support |

**Product identification number**

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**Offering Information**

Product information is available on the [IBM Offering Information](https://www.ibm.com) website.

**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 IBMid).

[BP Attachment for Announcement Letter 218-253](https://www.ibm.com)

**Publications**

Technical documentation for IBM Db2 Analytics Accelerator for z/OS can be found in [IBM Knowledge Center](https://www.ibm.com).

Technical documentation for IBM Db2 Analytics Accelerator Loader for z/OS can be found in [IBM Knowledge Center](https://www.ibm.com).

Technical documentation for IBM Machine Learning for z/OS can be found in [IBM Knowledge Center](https://www.ibm.com).

Technical documentation for IBM Db2 Query Management Facility can be found in [IBM Knowledge Center](https://www.ibm.com).

Technical documentation for IBM Db2 QMF can be found in [IBM Knowledge Center](https://www.ibm.com).

Technical documentation for IBM Data Virtualization Manager for z/OS can be found in [IBM Knowledge Center](https://www.ibm.com).

**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

IBM Db2 QMF for z/OS, V12.2

There are eight installation entities across Query Management Facility (QMF) for z/OS.

QMF Server requirements:

- A minimum of one zIIP

QMF Z Client, QMF TSO, and CICS® client requirements:

- Operates on any Z hardware configuration that supports the required software.
- Runs on any processor that is supported by the operating system. Some operations, however, will not work with columns that contain decimal floating point data if the processor on which QMF is running does not support decimal floating point instructions.
- Accesses all of the direct-access storage devices (DASD) that are supported by z/OS and Db2 for z/OS, as well as all display devices supported by Graphical Data Display Manager (GDDM).
- To implement a national language feature that uses a double-byte character set (DBCS), you need a workstation that supports DBCS. Ensure that this device is supported by GDDM. For the amount of storage required to copy the QMF V12.1 libraries from the distribution media using SMP/E, see the QMF program directory that is appropriate for your QMF edition and national language.
- When you plan your region size, consider the storage required to load modules during initialization and the virtual storage requirements for report operations.
- Restriction: For TSO only, consider the amount of space required to run applications other than Db2 QMF.

Db2 QMF for Workstation requires:

- A hardware configuration that supports the Windows™ operating system
- Network connectivity
- Minimum of 1 GB disk space and 1 GB of RAM

Db2 QMF for WebSphere® requires:

- Hardware configuration that supports the Windows or Linux® operating systems
- Minimum of 500 MB disk space
- Minimum of 1 GB of RAM on each server in which it is installed and an additional 50 MB of RAM for each concurrent user

Db2 QMF Vision requires:

- Hardware configuration that supports the Windows software
- Minimum of 250 GB disk space and 8 GB of RAM
- Four-core microprocessor

Db2 QMF Data Service requires:

- Any Z hardware configuration that supports the required software
- Any processor that is supported by the operating system

Db2 QMF Data Service Studio requires:

- Any hardware configuration that supports the required Windows software
- Approximately 1 GB of disk space (single language installation)
- Minimum of 1 GB of RAM
• Network connectivity

**Machine Learning for z/OS, V1.2**

The Machine Learning for z/OS, V1.2 component requires one of the following Z servers running IBM z/OS V2.1 (5650-ZOS), or later:

- IBM z14™
- IBM z13®
- IBM zEnterprise® EC12

**Db2 Analytics Accelerator for z/OS, V7.1**

**For deployment on the IBM Integrated Analytics System**

Using the appliance model, Db2 Analytics Accelerator for z/OS, V7.1 requires an appropriately sized IBM Integrated Analytics System. The size is determined by the required performance given the amount of data, number of users, the complexity of queries, and their arrival rate. This drives the configuration of the IBM Integrated Analytics System. The size of the IBM Integrated Analytics System also determines the number of PVUs based on which Db2 Analytics Accelerator for z/OS, V7.1 will be charged. (For details, see IBM Integrated Analytics System.)

For deployment on the IBM Integrated Analytics System, order IBM Db2 Analytics Accelerator on IBM Integrated Analytics System.

**For deployment on the newly announced IBM z14**

Routing queries to the IBM Z infrastructure requires an IBM z14. The number of Integrated Facility for Linux (IFL) processors required to be dedicated to Db2 Analytics Accelerator for z/OS, V7.1 is determined by the required performance given the amount of data, number of users, the complexity of queries, and their arrival rate.

The dedicated IFLs determine the number of PVUs based on which Db2 Analytics Accelerator for z/OS V7.1 will be charged. For deployment on IBM z14, order IBM Db2 Analytics Accelerator on IBM Z.

**Db2 Analytics Accelerator Loader for z/OS, V2**

Db2 Analytics Accelerator Loader for z/OS, V2.1 requires a z196, or higher.

**Data Virtualization Manager for z/OS, V1.1**

Data Virtualization Manager for z/OS, V1.1 requires IBM z14, z13®, z13s®, zEnterprise EC12, zEnterprise BC12, zEnterprise 114 (z114), or zEnterprise 196 (z196).

**IBM Open Data Analytics for z/OS, V1.1.0**

Open Data Analytics for z/OS requires one of the following Z servers:

- IBM z14
- IBM z13
- IBM z13s®
- IBM zEnterprise EC12
- IBM zEnterprise BC12

**Software requirements**

**Db2 QMF for z/OS, V12.2**

**Mandatory installation requisites**
TSO and CICS clients require z/OS V2.1 (5650-ZOS), or later, and one of the following Db2 for z/OS releases:

- Db2 for z/OS, V11 (5615-DB2)
- Db2 for z/OS Value Unit Edition V11 (5697-P43)
- Db2 for z/OS, V12 (5650-DB2)
- Db2 for z/OS Value Unit Edition V12 (5770-AF3)

QMF for Workstation requires one of the following operating systems:

- Windows 7
- Windows 8.1
- Windows Server 2008
- Windows Server 2012
- Windows 10

QMF for WebSphere requires:

- One of the following application web servers:
  - IBM WebSphere Application Server V8.5.5 or V9.0 configured to use Java™ 8
  - Apache Tomcat 8, 8.5, or 9 configured to use Java 8

QMF Server Web Deployment requires:

- One of the following application web servers:
  - WebSphere Application Server V8.5.5 or V9.0 configured to use Java 8
  - Apache Tomcat 8, 8.5, or 9 configured to use Java 8

QMF Server Standalone requires:

- Any operating system that supports Java 8
- Java SE 8

QMF Vision V12.1 installation entity requires:

- One of the following operating systems:
  - Windows 7 64-bit, Windows Server 2008 R2 Service Pack 1, or Windows Server 2012 with .NET Framework 3.5 enabled
- One of the following browsers:
  - Chrome version 50.0.2661.102, or later
  - Firefox version 47.0.1, or later
  - Microsoft™ Edge version 25.10586.0.0, or later
  - Safari version 9.0.3, or later

Db2 QMF Data Service V12.1 installation entity requires one of the following:

- IBM zEnterprise 114 (z114), IBM zEnterprise 196 (z196), or more recent zEnterprise system
- z/OS V2.1 (5650-ZOS), or later

Data Service load library

- The load library for Data Service is allocated as a partitioned data set extended (PDSE). When a PDSE is used to store load modules, it stores them in structures called program objects.
- You cannot copy a PDSE to a partitioned data set (PDS). For more information, see the z/OS documentation.
Program Temporary Fixes (PTFs)

- When you use VSAM data access with Data Service, you need to add the following PTFs:
  - RLS OA44111:
    -- z/OS V1.13 UA75045
    -- z/OS V2.1 UA75046
  - VSAM:
    -- z/OS V1.13 UA75272

Db2 QMF Data Service Studio V12.1 installation entity requires one of the following operating systems:

- Windows 7
- Windows 8.1
- Windows Server 2012
- Windows Server 2008
- Windows 10

QMF Z Client requires the following:

- z/OS 2.1, or later
- IBM Graphical Data Display Manager (GDDM)

**Mandatory operational requisites**

TSO and CICS clients of QMF V12.1 operate with any of the following:

- Db2 for z/OS, V10 (5605-DB2) (all modes except CM8, CM8, ENFM8, ENFM8) with APARs PM50434 and PM72274
- Db2 for z/OS Value Unit Edition, V10 (5697-P31) (all modes except CM8, CM8, ENFM8, ENFM8) with APARs PM50434 and PM72274
- Db2 for z/OS, V11 (5615-DB2)
- Db2 for z/OS Value Unit Edition, V11 (5697-P43)
- Db2 for z/OS, V12 (5650-DB2)
- Db2 for z/OS Value Unit Edition, V12 (5770-AF3)

In addition:

- For advanced graphical capabilities of the QMF Analytics for TSO client, GDDM-PGF, a component in z/OS, is required.
- Db2 QMF for TSO and CICS running under CICS require CICS Transaction Server for z/OS.
- QMF Vision requires MongoDB 3.x, or later, to be installed. This is done when the optional QMF Vision component is selected during the QMF installation and you are asked to download/install Mongo during this part of the QMF installation.

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.

**Machine Learning for z/OS, V1.2**

**Mandatory installation requisites**

The IBM Machine Learning for z/OS, V1.2 component requires the following:
The IBM Machine Learning for z/OS component requires the following:

- IBM z/OS V2.1, or later

One additional IP address as a proxy IP for the three Linux systems in the same subnet as the three Linux systems where it connects to the backend z/OS system

**Mandatory operational requisites**

The IBM Machine Learning for z/OS, V1.2 component requires the following:

- IBM Open Data Analytics for z/OS, V1.1 (5655-OD1 for License and 5655-OD2 for Subscription and Support) with bash 4.2.53
- Any of the following Db2 for z/OS products:
  - IBM Db2 for z/OS, V12.1 (5650-DB2)
  - IBM Db2 for z/OS Value Unit Edition, V12.1 (5770-AF3)
  - IBM Db2 for z/OS, V11.1 (5615-DB2), or later
  - IBM Db2 for z/OS Value Unit Edition, V11.1 (5697-P43), or later
  - IBM Db2 for z/OS, V10.1 (5605-DB2), plus APAR PI13725, or later
  - IBM Db2 for z/OS Value Unit Edition, V10.1 (5697-P31), plus APAR PI13725, or later
- IBM 64-bit SDK for z/OS, Java Technology Edition, V8 (5655-DGH), Refresh 4 Fix Pack 6, or later
- Gzip 1.6
- IBM Tivoli Directory Server for z/OS LDAP (a component of z/OS V2.1, or later)
- z/OS Integrated Cryptographic Service Facility (ICSF) (a component of z/OS V2.1, or later)

**Db2 Analytics Accelerator for z/OS, V7.1**

The Db2 Analytics Accelerator for z/OS software requires:

- z/OS V2.1, or later
- Db2 V11.1 for z/OS, or later
- Db2 Utilities Suite for z/OS, V11.1, or later

For details and for additional information regarding hardware and software requirements, see Prerequisites and Maintenance

**Db2 Analytics Accelerator Loader for z/OS, V2**

**Mandatory installation requirements**

Db2 Analytics Accelerator Loader for z/OS, V2.1 (5639-OLE) requires:

- z/OS, V1.13 (5694-A01), with the following PTFs:
  - UA75045
  - UA75272
- z/OS, V2.1 (5650-ZOS), or later, with the following PTFs:
  - UA75046
  - UA75273
- z/OS, V2.2 (5650-ZOS), or later
- IBM SMP/E for z/OS, V3.6 (5655-G44), or later

One of the following:

- IBM Db2 for z/OS, V10.1 (5605-DB2)
• IBM Db2 for z/OS Value Unit Edition, V10.1 (5697-P31) with the following PTFs applied
  – AI25214
  – PI10162
  – PM93789
  – UI24304
  – UI24305
• IBM Db2 for z/OS, V11.1 (5615-DB2)
• IBM Db2 for z/OS Value Unit Edition, V11.1 (5697-P43)
  – AI26321
  – PI10162
  – UI24306
  – UI24308

FEC Common Code 1.3 (FMID H25F132) with the latest maintenance level

**Mandatory operational requirements**

Db2 Analytics Accelerator Loader for z/OS, V2.1 requires:

• One of the following:
  – IBM Db2 Analytics Accelerator for z/OS, V3.1 (5697-DAA)
  – IBM Db2 Analytics Accelerator for z/OS, V4.1 (5697-DAB)
  – IBM Db2 Analytics Accelerator for z/OS, V5.1 (5697-DA5)
• The Change Data Capture (CDC) and the LOAD RESUME features require Db2 Analytics Accelerator for z/OS, V4.1 with PTF 5, or a later version of the product.
• IBM Db2 Utilities Suite for z/OS, V10.1 (5655-V41), or later.
• IBM Db2 Tools Base for z/OS, V1.4 (5655-V93), or later.
• IBM Data Studio for z/OS, V4.1 (5724-DST) available for download at the IBM developerWorks® IBM Data Studio website

• One of the following:
  – IBM Db2 for z/OS, V10 (5605-DB2)
  – IBM Db2 for z/OS Value Unit Edition, V10.1 (5697-P31)
  – IBM Db2 for z/OS, V11.1 (5615-DB2)
  – IBM Db2 for z/OS Value Unit Edition, V11.1 (5697-P43)

For post-installation customization, FMID HT CZ110 IBM Tools Customizer for z/OS at the latest maintenance level is required. It is delivered in IBM Tools Base, V1.4 (5655-V93), or later.

**Conditional operational requirements**

Db2 Analytics Accelerator Loader for z/OS, V2.1 requires:

• To load data from distributed relational database architecture (DRDA) sources, one of the following is required:
  – IBM InfoSphere® Federation Server, V9.7 (5724-N97)
  – IBM InfoSphere BigInsights® (IBM Big SQL), V1.0 (5725-C09)

**Data Virtualization Manager for z/OS V1.1**

IBM z/OS V2.1, or later

Client drivers
• Java Database Connectivity (JDBC)
  – Java level 1.7, or later
• Open Database Connectivity (ODBC)
  – Windows; AIX®, HP-UX; Linux; Red Hat Enterprise Linux; SUSE Linux

Studio

• Windows
  – Windows 10 (32-bit and 64-bit), Windows 8 (32-bit and 64-bit), Windows 7 (32-bit and 64-bit)
• Linux
  – Ubuntu, Red Hat
• Apple macOS
  – macOS Sierra 10.12
• Hard disk space
  – A minimum of 2 GB is recommended for a full installation.
• System memory
  – A minimum of 4 GB is recommended.
  – A full install includes the Studio product installer (approximately 1 GB) and bundled Eclipse Kepler 4.3.2 and Java level 1.7

Open Data Analytics for z/OS, V1.1.0

Open Data Analytics for z/OS requires:

• IBM z/OS V2.1, or later
• IBM 64-bit SDK for z/OS, Java Technology Edition, Version 8 Refresh 4 Fix Pack 6, or later

Planning information

Packaging

This offering is delivered through the internet as an electronic download.

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

Ordering information

Consult your IBM representative. Trade-up options are available for customers with current subscription and support entitlements to a component program that is part of IBM Advanced Analytics for z/OS. Contact your IBM software representative for details.

Charge metric

For information about the charge metrics for the announced offerings, see the License Information documents page on the IBM Software License Agreement website for more information.

Basic license
To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: IBM Advanced Analytics for z/OS

Program PID: 5697-AA1

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Subscription and Support PID: 5697-AAZ

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**Customized Offerings**

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, see 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.

**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.

**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

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<th>License Information document title</th>
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<td>BM Advanced Analytics for z/OS, Version 1.1.0</td>
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See the License Information documents page on the IBM Software License Agreement website for more information.

Limited warranty applies

Yes

Limited warranty

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

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

This technical support allows you to obtain assistance (by telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, through an announcement letter, of discontinuance of support with 12 months’ notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

For additional information about the IBM Software Support Lifecycle Policy, see the IBM Software Support Lifecycle Policy website.

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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:

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- 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.

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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.

**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.

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