

IBM Spectrum Protect V8.1.5 and IBM Spectrum Protect Plus V10.1.1 deliver increased performance and additional capabilities

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At a glance

IBM Spectrum Protect™ V8.1.5 and IBM Spectrum Protect Plus V10.1.1 deliver additional performance and new capabilities with a simplified user experience, differentiated hybrid cloud data protection, and secure data protection.

These releases deliver enhanced logging and specialized documentation to help clients adhere to General Data Protection Regulation (GDPR) compliance, Ransomware detection, and a new set of capabilities for IBM Spectrum Protect Plus that are focused on data protection for virtual and physical environments and its vSnap repository.

Overview

IBM Spectrum Protect V8.1.5 and IBM Spectrum Protect Plus V10.1.1 deliver additional performance and new capabilities:

- **Additional auditing capabilities for GDPR:** New documentation and logging to assist with adhering to GDPR regulations.
- **Enhanced security by Ransomware detection:** IBM Spectrum Protect Server has updated its Ransomware detection capabilities.
- **Enhanced VMware data protection:** IBM Spectrum Protect Plus simplifies the deployment and management of VMware environments.
- **Protecting the IBM Spectrum Protect Plus infrastructure:** IBM Spectrum Protect Plus enhances options for protecting its metadata catalog and vSnap repositories.
- **Enhanced application support for IBM Spectrum Protect Plus:** IBM Spectrum Protect Plus enhances support for Microsoft™ SQL Server databases, including physical environments, and introduces support for Oracle databases in physical and virtual environments.
- **RESTful application programming interfaces (REST APIs):** Published REST APIs for IBM Spectrum Protect Plus enable programmatic workflow interaction.

Key prerequisites

See the specific websites listed in the [Software requirements](#) section for a complete list of devices that are supported by IBM Spectrum Protect (5725-W98), IBM

Spectrum Protect Extended Edition (5725-W99), and IBM Spectrum Protect for Data Retention (5725-X15). Libraries that have more than four drives or more than 48 tape slots require a license for IBM Spectrum Protect Extended Edition.

Planned availability date

March 23, 2018

Description

IBM Spectrum Protect V8.1.5 and IBM Spectrum Protect Plus V10.1.1 deliver new capabilities in protection and performance.

Addressing GDPR

New IBM Spectrum Protect documentation and audit logging helps assist customers to adhere to GDPR regulations. IBM Spectrum Protect already provides capabilities to help adhere to GDPR regulations with its built-in security mechanisms, audit logging for breach notification, alerting constructs, fine grain policy management, and data protection methods to control data deletion. With this new release, IBM Spectrum Protect provides additional audit logging, as well as detailed documentation written specifically for IBM Spectrum Protect administrators that are responsible for upholding GDPR requirements within their organization.

Enhanced security for Ransomware detection with alerting

IBM Spectrum Protect Server has updated its Ransomware detection capabilities. Specific symptoms of a possible Ransomware infection will be detected and IBM Spectrum Protect operations center alerts are triggered and displayed.

Enhanced tape performance

Faster tape write speeds by lessening tape transaction activity for noncollocated target storage pools. In addition, specific to IBM^(R) LTOTM and Jaguar tape drives, IBM Spectrum Protect Server improves tape read performance when performing short forward locates.

Additional expanded platform support

Running IBM Spectrum Protect Server on the Little Endian Ubuntu Linux^(R) on Power^(R) platform enables you to leverage the advantages of using Ubuntu Linux in your overall data protection solution.

Note: This support does not include support for physical or virtual tape.

Enhanced VMware data protection

IBM Spectrum Protect Plus simplifies the deployment and management of VMware environments:

- Enables VMware vSphereTM tags to be used for organizing backup policy. This support enables viewing of tagged VMs and association with IBM Spectrum Protect Plus service-level agreements (SLAs).
- Provides VADP proxy management enhancements for centralized configuration and support for push deployment and upgrade. These configuration and installation enhancements for VADP proxies can be initiated from the IBM Spectrum Protect Plus UI or through a REST API.
- Provides the capability to exclude virtual machine disks from backup.
- Simplifies VM backup workflows by removing NFS mounts to VADP proxy host.

IBM Spectrum Protect Plus expands VMware support to include:

- VMware vSphere encrypted VMs with VMware vSphere 6.5.
- NBDSSL data transfer mode using compression starting with VMware vSphere 6.5.

Protecting the IBM Spectrum Protect Plus infrastructure

IBM Spectrum Protect Plus enhances options for protecting its metadata catalog and vSnap repositories:

- SLA-based, online backup and asynchronous replication of IBM Spectrum Protect Plus metadata catalog.
- SLA-based asynchronous replication of vSnap repositories. Data can be replicated in compressed format.

Enhanced application support for IBM Spectrum Protect Plus

IBM Spectrum Protect Plus enhances support for Microsoft SQL Server databases and introduces support for Oracle databases in physical and virtual environments.

- Microsoft SQL Server: Support is now enhanced for physical and virtual environments. Database backup is done using a block-level, incremental forever approach and includes the capability to perform log backups. Restore options include instant access for testing, cloning for DevOps, and full restore to production, including applying logs for point-in-time recovery. Granular restore of individual databases is supported. Performance optimizations include multistream backup and restore.
- Oracle: Support is added for physical and virtualized Oracle databases, including those using ASM or RAC leveraging Oracle Recovery Manager. Oracle database backup is done using a block-level, incremental forever approach. Restore options include instant access for testing, cloning for DevOps, and full restore to production. Granular restore of individual databases is supported. Performance optimizations include multistream backup and restore.

Backup management

Enhanced policy-based selection of VMs to exclude or backup based on VM and database naming conventions and support for additional sites enables affinity between vSnap repositories and proxies based on user defined locations.

Automated deployment

Enabling automated deployment on IBM Cloud for VMware solutions of IBM Spectrum Protect Plus and its associated backup infrastructure. This reduces deployment time and effort, and provides simple SLA-based protection of virtual machines in the cloud.

Role-based access control (RBAC)

IBM Spectrum Protect Plus provides improved RBAC by simplifying management, permissions, and resources. In addition, it provides additional predefined roles and predefined resource groups for typical use cases.

REST APIs

Published REST APIs for IBM Spectrum Protect Plus enables programmatic workflow interaction with IBM Spectrum Protect Plus.

Program number

Program number	VRM	Program name
5737-F11	10.1.1	IBM Spectrum Protect Plus
5725-W98	8.1.5	IBM Spectrum Protect
5725-W99	8.1.5	IBM Spectrum Protect Extended Edition

Program number	VRM	Program name
5725-X15	8.1.5	IBM Spectrum Protect for Data Retention
5725-Z10	8.1.0	IBM Spectrum Protect High Speed Data Transfer
5725-X01	8.1.4	IBM Spectrum Protect for Databases
5725-X03	8.1.4	IBM Spectrum Protect for Enterprise Resource Planning
5725-X02	8.1.4	IBM Spectrum Protect for Mail
5725-X18	8.1.5	IBM Spectrum Protect for SAN
5725-X04	8.1.4	IBM Spectrum Protect for Space Management
5725-X14	8.1.4	IBM Spectrum Protect HSM for Windows™
5698-AAH	7.1.3	IBM Tivoli ^(R) Storage Manager for z/OS ^(R) Media
5698-AAK	7.1.3	IBM Tivoli Storage Manager Extended Edition for z/OS Media
5725-X13	8.1.2	IBM Spectrum Protect for Workstations-Starter Edition
5725-X12	8.1.2	IBM Spectrum Protect for Workstations
5725-X00	8.1.4	IBM Spectrum Protect for Virtual Environments
5725-X05	8.1.5	IBM Spectrum Protect Suite
5725-X06	8.1.5	IBM Spectrum Protect Suite Entry
5725-X07	8.1.5	IBM Spectrum Protect Suite-Front End
5725-X08	8.1.5	IBM Spectrum Protect Suite Entry-Front End (for PPA)
5608-AB8	8.1.4	IBM Spectrum Protect Snapshot (for AAS)
5725-X22	8.1.4	IBM Spectrum Protect Snapshot (for PPA)

Offering Information

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

More information is also available on the [Passport Advantage^{\(R\)}](#) and [Passport Advantage Express^{\(R\)}](#) website.

Publications

Documentation in English and all available translations will be available in [IBM Knowledge Center](#) on the general availability date. Use the search function in IBM Knowledge Center or the product finder feature to find the specific products that you use.

IBM Spectrum Protect documentation is being revised to focus on the preferred methods for implementing data protection solutions. Version 8.1 documentation

includes instructions that are designed to streamline and simplify the process of implementing and managing a single multisite disk or a tape solution.

See the following IBM Knowledge Center links to specific IBM Spectrum Protect products:

- [IBM Spectrum Protect](#)
- [IBM Spectrum Protect Extended Edition](#) (see [IBM Spectrum Protect](#) for details)
- [IBM Spectrum Protect Plus](#)
- [IBM Spectrum Protect for Databases](#)
- [IBM Spectrum Protect for Enterprise Resource Planning](#)
- [IBM Spectrum Protect for Mail](#)
- [IBM Spectrum Protect for SAN](#) (previously know as IBM Tivoli^(R) Storage Manager for Storage Area Networks)
- [IBM Spectrum Protect for Space Management](#)
- [IBM Spectrum Protect HSM for WindowsTM](#)
- [IBM Spectrum Protect for Workstations](#)
- [IBM Spectrum Protect for Virtual Environments](#)
- [IBM Spectrum Protect Snapshot](#)

See the [IBM Spectrum Protect Suite information](#) portals for additional information and documentation about the suite offerings.

Technical information

Specified operating environment

Software requirements

IBM Spectrum Protect supported devices

See the specific websites for the list of devices that are supported by IBM Spectrum Protect (5725-W98), IBM Spectrum Protect Extended Edition (5725-W99), and IBM Spectrum Protect for Data Retention (5725-X15). Libraries that have more than four drives or more than 48 tape slots require a license for IBM Spectrum Protect Extended Edition.

For IBM Spectrum Protect supported devices for AIX^(R) and Microsoft Windows, go to the [IBM Spectrum Protect Supported Devices for AIX and Windows](#) website.

For IBM Spectrum Protect supported devices for Linux, go to the [IBM Spectrum Protect Supported Devices for Linux](#) website.

Hardware and software requirements for IBM Spectrum Protect V8.1 products are available at the individual product websites listed below.

For IBM Spectrum Protect (5725-W98), IBM Spectrum Protect Extended Edition (5725-W99), and IBM Spectrum Protect for Data Retention (5725-X15)¹, go to the [Overview -Tivoli Storage Manager Supported Operating Systems](#) website.

For IBM Spectrum Protect for Databases (5725-X01), go to the [IBM Spectrum Protect for Databases - All Requirements Documents](#) website.

For IBM Spectrum Protect for Enterprise Resource Planning (5725-X03), go to the [IBM Spectrum Protect for Enterprise Resource Planning - All Requirements Documents](#) website.

For IBM Spectrum Protect for Mail (5725-X02), go to the [IBM Spectrum Protect for Mail - All Requirements Documents](#) website.

For IBM Spectrum Protect for Space Management (5725-X04), go to the [IBM Spectrum Protect for Space Management \(HSM\) - All Requirements Documents](#) website.

For IBM Spectrum Protect for SAN (5725-X18), go to the [IBM Spectrum Protect for SAN](#) website.

For IBM Spectrum Protect for Virtual Environments (5725-X00), go to the [IBM Spectrum Protect for Virtual Environments - All Requirements Doc](#) website.

For IBM Spectrum Protect High Speed Data Transfer (5725-Z10), go to [IBM Spectrum Protect High Speed Data Transfer Version 8.1.0](#) website.

For IBM Spectrum Protect for Workstations (5725-X12) and IBM Spectrum Protect for Workstations Starter Edition (5725-X13), go to the [IBM Spectrum Protect for Workstations V8.1.X Hardware and Software Requirements](#) website.

For IBM Spectrum Protect HSM for Windows (5725-X14), go to the [Hardware and software requirements for IBM Spectrum Protect HSM for Windows](#) website.

For IBM Spectrum Protect Snapshot (5725-X22 (PPA) 5608-AB8 (AAS)), go to the [IBM Spectrum Protect Snapshot](#) website.

For technical requirements for IBM Spectrum Protect Suite (5725-X05), IBM Spectrum Protect Suite-Front End (5725-X07), IBM Spectrum Protect Suite Entry (5725-X06), and IBM Spectrum Protect Suite Entry-Front End (5725-X08), see the individual product websites listed above.

¹ IBM Spectrum Protect V8.1, IBM Spectrum Protect Extended Edition V8.1 and IBM Spectrum Protect for Data Retention V8.1 have the same hardware, software, and supported device requirements.

Companion products

Organizations that have a SAN environment might consider purchasing IBM Spectrum Control™ in addition to IBM Spectrum Protect. The organization can benefit from the ability to more fully manage their storage environment, including backup and recovery, management of disk performance, management of the physical network of the SAN, and logical connections between the devices.

Planning information

Packaging

IBM Spectrum Protect products are distributed with:

- *International Program License Agreement* (Z125-3301)
- License Information document

This offering is delivered through the internet as an electronic download. There is no physical media.

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

Security, auditability, and control

IBM Spectrum Protect products use the security and auditability features of the operating system software.

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

Ordering information

Product group: IBM Spectrum Protect

Product: IBM Spectrum Protect 5725-W98

Product category: IBM Spectrum Protect

Passport Advantage

Program name/Description	Part number
IBM Spectrum Protect Plus	5737-F11
IBM Spectrum Protect Plus Capacity per Terabyte License + SW Subscription & Support 12 Months	D1X27LL
IBM Spectrum Protect Plus Capacity per Terabyte Annual SW Subscription & Support Renewal	E0P83LL
IBM Spectrum Protect Plus Capacity per Terabyte SW Subscription & Support Reinstatement 12 Months	D1X28LL
IBM Spectrum Protect Plus Capacity per Terabyte Monthly License	D1X29LL
IBM Spectrum Protect Plus 10 Managed Virtual Servers License + SW Subscription & Support 12 Months	D1VBTLL
IBM Spectrum Protect Plus 10 Managed Virtual Servers SW Subscription & Support Reinstatement 12 Months	D1VBULL
IBM Spectrum Protect Plus 10 Managed Virtual Servers Monthly License	D1VBVLL
IBM Spectrum Protect Plus 10 Managed Virtual Servers Annual SW Subscription & Support Renewal	E0NXKLL

The following products have new electronic download media; there is no physical media:

- 5737-F11 V10.1.1 IBM Spectrum Protect Plus (PPA)
- 5725-W98 V8.1.5 IBM Spectrum Protect (PPA)
- 5725-W99 V8.1.5 IBM Spectrum Protect Extended Edition (PPA)
- 5725-X15 V8.1.5 IBM Spectrum Protect for Data Retention (PPA)
- 5725-X18 V8.1.5 IBM Spectrum Protect for SAN (PPA)
- 5725-X05 V8.1.5 IBM Spectrum Protect Suite (PPA)
- 5725-X06 V8.1.5 IBM Spectrum Protect Suite Entry (PPA)
- 5725-X07 V8.1.5 IBM Spectrum Protect Suite-Front End (PPA)
- 5725-X08 V8.1.5 IBM Spectrum Protect Suite Entry-Front End (PPA)

Charge metric

Pricing examples

IBM Spectrum Protect V8.1.5 suites include entitlement for IBM Spectrum Protect Plus. IBM Spectrum Protect Plus is measured on a per managed virtual server, or virtual machine (VM), metric when backing up VMs. 1 TB of IBM Spectrum Protect Suite or IBM Spectrum Protect Suite Entry entitles a customer to protect ten VMs with IBM Spectrum Protect Plus. 1 TB of IBM Spectrum Protect Suite - Front End

or IBM Spectrum Protect Suite Entry - Front End entitles a customer to protect 15 VMs with IBM Spectrum Protect Plus. When using IBM Spectrum Protect Plus for block-level, incremental backup for applications residing on physical machines, IBM Spectrum Protect Plus is measured per terabyte.

When consuming IBM Spectrum Protect Plus through IBM Spectrum Protect Suite licensing, offload of data from IBM Spectrum Protect Plus to IBM Spectrum Protect Server is included in IBM Spectrum Protect Plus entitlement. In this case, the capacity of the data offloaded is not required to be measured nor does it require additional capacity entitlement.

Example 1: IBM Spectrum Protect Plus protecting physical database servers

A customer wishes to purchase IBM Spectrum Protect Plus to protect one 400 GB (.4 TB) Microsoft SQL Server database and one 3 TB Oracle database. Each database runs on its own physical server and is stored on multiple disk volumes. Transaction log files are consuming additional space. IBM Spectrum Protect Plus is configured to keep seven backup versions for each database in its repository for recovery purposes. The customer wishes to protect 3.4 TB of front-end database capacity, calculated as 0.4 TB for the Microsoft SQL Server database plus 3 TB for the Oracle database. The customer will require 4 TB of capacity entitlements. Capacity entitlements need to be rounded up to the next whole number.

Licensing	Aggregated size of databases on physical servers	Required license entitlements
IBM Spectrum Protect Plus Capacity (per TB)	3.4 TB	4 TB
IBM Spectrum Protect Suite	3.4 TB	4 TB
IBM Spectrum Protect Entry Suite	3.4 TB	4 TB
IBM Spectrum Protect Suite -- Front End	3.4 TB	4 TB
IBM Spectrum Protect Entry Suite -- Front End	3.4 TB	4 TB

Example 2: IBM Spectrum Protect Plus protecting physical database servers and protecting virtual machines

A customer wishes to purchase IBM Spectrum Protect Plus to protect one 400 GB (.4 TB) Microsoft SQL Server database and one 3 TB Oracle database. Each database runs on its own physical server and is stored on multiple disk volumes. Transaction log files are consuming additional space. IBM Spectrum Protect Plus is configured to keep seven versions for each database in its repository for recovery purposes. The customer wishes to protect 3.4 TB of front-end database capacity, calculated as 0.4 TB for the Microsoft SQL Server database, plus 3 TB for the Oracle database. In addition, the client wishes to protect 150 virtual machines, 30 of them run virtualized Microsoft SQL Server. The customer will require 4 TB of capacity entitlements for the protection of the physical database servers plus entitlements for 150 virtual machines.

Licensing	Aggregated size of databases on physical servers	Required entitlements for protected VMs	Required license entitlements
IBM Spectrum Protect Plus Capacity (per TB) and IBM Spectrum Protect Plus (per 10 VMs)	3.4 TB	15 packs of 10	4 TB plus 15 packs of 10
IBM Spectrum Protect Suite	3.4 TB	150/10=15 TB	19 TB

Licensing	Aggregated size of databases on physical servers	Required entitlements for protected VMs	Required license entitlements
IBM Spectrum Protect Entry Suite	3.4 TB	150/10=15 TB	19 TB
IBM Spectrum Protect Suite -- Front End	3.4 TB	150/15=10 TB	14 TB
IBM Spectrum Protect Entry Suite -- Front End	3.4 TB	150/15=10 TB	14 TB

Comments:

- IBM Spectrum Protect Plus standalone is sold per pack of ten VMs for data protection and per terabyte for incremental, block-level backup of applications on physical systems
- 1 TB license of IBM Spectrum Protect Suites entitles the customer to protect ten VMs, regardless of their size
- 1 TB license of IBM Spectrum Protect Suites - Front End entitles the customer to protect 15 VMs, regardless of their size

For additional charge metric information, see Software Announcement [LP17-0509](#), dated September 26, 2017.

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. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Subscription and Support (also referred to as 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. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available. 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.

License Information number

PID	Product name	VRM	License Information number
IBM Spectrum Protect V8.1.5 PPA Stacked license of:			L-FAMR-AV4GRS
5725-W98	IBM Spectrum Protect	8.1.5	
5725-W99	IBM Spectrum Protect Extended Edition	8.1.5	
5725-X15	IBM Spectrum Protect for Data Retention	8.1.5	
5725-X18	IBM Spectrum Protect for SAN	8.1.5	
5737-F11	IBM Spectrum Protect Plus	10.1.1	L-BEBY-AVRSBF
5725-W98	IBM Spectrum Protect	8.1.5	L-FAMR-AV4GRU
5725-W99	IBM Spectrum Protect Extended Edition	8.1.5	L-FAMR-AV4GRW
5725-Z10	IBM Spectrum Protect High Speed Data Transfer	8.1.0	L-BEBY-AAWRHK
5725-X15	IBM Spectrum Protect for Data Retention	8.1.5	L-FAMR-AV4GRZ
5725-X01	IBM Spectrum Protect for Databases	8.1.4	L-BEBY-AS4T9Z
5725-X03	IBM Spectrum Protect for Enterprise Resource Planning	8.1.4	L-BEBY-AS4TD2
5725-X02	IBM Spectrum Protect for Mail	8.1.4	L-BEBY-AS4THD
5725-X18	IBM Spectrum Protect for SAN	8.1.5	L-FAMR-AV4GS3
5725-X04	IBM Spectrum Protect for Space Management	8.1.4	L-BEBY-AS4TQ6
5725-X00	IBM Spectrum Protect for Virtual Environments	8.1.4	L-BEBY-AS4UBP
5725-X14	IBM Spectrum Protect HSM for Windows	8.1.4	L-BEBY-AS4U8Z
5725-X12	IBM Spectrum Protect for Workstations	8.1.2	L-FAMR-ANDCUC
5725-X13	IBM Spectrum Protect for Workstations Starter Edition	8.1.2	L-FAMR-ANDCWN
5725-X05	IBM Spectrum Protect Suite	8.1.5	L-FAMR-AV4HJ5

PID	Product name	VRM	License Information number
	IBM Spectrum Protect Suite - Archive Option	8.1.5	L-FAMR-AV4HJ2
	IBM Spectrum Protect Suite - ProtecTIER ^(R) Option	8.1.5	L-FAMR-AV4HHY
	IBM Spectrum Protect Suite - IBM Cloud Object Storage Option	8.1.5	L-FAMR-AV4HHW
5725-X06	IBM Spectrum Protect Suite Entry	8.1.5	L-FAMR-AV4HJ9
5725-X07	IBM Spectrum Protect Suite - Front End	8.1.5	L-FAMR-AV4HHT
5725-X22	IBM Spectrum Protect Snapshot (PPA)	8.1.4	L-BEBY-AS4UDD
5608-AB8	IBM Spectrum Protect Snapshot (AAS)	8.1.4	L-BEBY-AS4UDD
5725-X08	IBM Spectrum Protect Suite Entry - Front End (PPA)	8.1.5	L-FAMR-AV4HHR

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

Limited warranty applies

Yes

Limited warranty

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

IBM provides you with access to IBM databases containing information 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).

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 (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the

program and (2) 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

Yes, information is available on the [Passport Advantage and Passport Advantage Express](#) website.

Usage restrictions

Yes

Usage is limited to the quantity of Processor Value Units, client devices, and terabytes licensed.

See the [License Information documents](#) for details.

Software Subscription and Support applies

Yes. Software Subscription and Support, also referred to as Software Maintenance, is now included in the Passport Advantage Agreement. Installation and technical support for the products announced in this announcement is provided by the Software Subscription and Support offering of the IBM International Passport Advantage Agreement. This fee service enhances customer productivity by providing voice or electronic access into the IBM support organizations.

IBM includes one year of Software Subscription and Support with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option.

While your Software Subscription and Support is in effect, IBM provides you assistance for your routine, short duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance by telephone and, if available, electronic access, only to your information systems (IS) technical support personnel during the normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your users.) IBM provides Severity 1 assistance 24 hours a day, every day of the year. For additional details, see 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, or failures caused by products for which IBM is not responsible under this agreement.

For additional information about the Passport Advantage Agreement, go to the [Passport Advantage and Passport Advantage Express](#) website.

All distributed software licenses include Software Subscription and Support for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition, may be elected.

Variable charges apply

No

Educational allowance available

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

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.

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

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative. Additional information is also available on the [Passport Advantage and Passport Advantage Express](#) website.

For all local charges, contact your IBM representative.

Latin America distribution

All Latin American countries except Cuba.

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Linux is a registered trademark of Linus Torvalds in the United States, other countries, or both.

VMware vSphere is a trademark of VMware, Inc. in the U.S. and other countries. Other company, product, and service names may be trademarks or service marks of others.

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