

IBM Spectrum Protect V8.1.3 delivers simplified deployment and intelligent cloud storage integration

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At a glance

IBM Spectrum Protect™ V8.1.3 delivers:

- Simplified deployments and lower administration costs with centralized and automated client updates from the Operations Center
- Lower pricing for data stored in IBM^(R) Cloud Object Storage
- Tiering to cloud by age
- More resilient backups to cloud with self-throttling of data ingest
- Spectrum Protect server support for Linux™ x86_64 for Ubuntu

Overview

IBM Spectrum Protect V8.1.3 simplifies deployment and expands cloud storage integration with the following capabilities:

- Simplified deployments and lower administration costs with centralized and automated client updates from the Operations Center
- IBM Spectrum Protect Suite --IBM Cloud Object Storage Tier offering is a lower priced option for storing data in IBM Cloud Object Storage
- Tier to cloud by age for container pools enables leveraging of high-speed storage for operational recoveries and lower-cost cloud storage for long term retention
- More resilient backups to cloud with self-throttling of data ingest enables Spectrum Protect to automatically manage inconsistent bandwidth when writing to cloud storage
- Spectrum Protect server support for Linux x86_64 for Ubuntu

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.

For complete details, see the [Software requirements](#) section.

Planned availability date

September 29, 2017

Refer to the [Availability of national languages](#) section for national language availability.

Description

Automated client updates from the Spectrum Protect Operations Center

Simplify client updates and lower administration costs with centralized and automated client updates from within the Spectrum Protect Operations Center. Administrators can centrally manage, automate, and schedule upgrades to Spectrum Protect Backup Archive clients.

IBM Spectrum Protect Suite -IBM Cloud Object Storage Tier

IBM Spectrum Protect Suite -IBM Cloud Object Storage Tier is a new offering that has lower pricing when choosing IBM Cloud Object Storage as a target for your backup and archive data. It applies to the IBM Spectrum Protect Suite back-end, capacity-based pricing and can be leveraged for both on-premises IBM Cloud Object Storage devices or public-based IBM Cloud Object Storage. Details can be found in the **Pricing examples** listed in the [Charge metric](#) section.

Cloud Object Storage Tiering

This feature enables administrators to set up two tiers of storage for container pools. The first tier is a fast, disk-based directory-container storage pool to meet fast ingest requirements at backup time, as well as stringent recovery time objectives for operational recovery. The second tier is an object storage cloud-container storage pool that enables a cost-effective storage target for longer-term retention requirements. The tiering is based on age of the data.

Resilient backups to cloud with self-throttling cloud storage streaming

When storing data in cloud storage, line impairment and latency can cause inconsistent write speeds. This can sometimes cause backup failures when storing data on cloud storage. With this new feature, Spectrum Protect can mitigate this problem by automatically throttling the ingest of data up or down to reduce the number of backup failures caused by variable write speeds to cloud storage.

Spectrum Protect server support for Linux x86_64 for Ubuntu

Running the Spectrum Protect server on the Linux x86_64 for Ubuntu 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 virtual or physical tape.

Availability of national languages

There is only electronic availability. There is no physical media.

Description	Availability date	Language
Electronic	September 29, 2017	Brazilian, Portuguese, Spanish, English

Translation information, if available, can be found at the [Translation Reports](#) website.

Program number

Program number	VRM	Program name
5725-W98	8.1.3	IBM Spectrum Protect
5725-X11	8.1.3	IBM Spectrum Protect Entry
5725-W99	8.1.3	IBM Spectrum Protect Extended Edition
5725-X15	8.1.3	IBM Spectrum Protect for Data Retention
5725-X01	8.1.2	IBM Spectrum Protect for Databases
5725-X03	8.1.1	IBM Spectrum Protect for Enterprise Resource Planning
5725-X02	8.1.2	IBM Spectrum Protect for Mail
5725-X18	8.1.3	IBM Spectrum Protect for SAN
5725-X04	8.1.2	IBM Spectrum Protect for Space Management
5725-X00	8.1.2	IBM Spectrum Protect for Virtual Environments
5725-X12	8.1.2	IBM Spectrum Protect for Workstations
5725-X13	8.1.2	IBM Spectrum Protect for Workstations-Starter Edition
5725-Z10	8.1.0	IBM Spectrum Protect High Speed Data Transfer
5725-X14	8.1.2	IBM Spectrum Protect HSM for Windows
5725-X05	8.1.3	IBM Spectrum Protect Suite
5725-X07	8.1.3	IBM Spectrum Protect Suite-Front End
5725-X06	8.1.3	IBM Spectrum Protect Suite Entry
5725-X08	8.1.3	IBM Spectrum Protect Suite Entry-Front End (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-site or multisite disk 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 for Databases](#)

[IBM Spectrum Protect for Enterprise Resource Planning](#)

[IBM Spectrum Protect for Mail](#)

[IBM Spectrum Protect for SAN](#) (previously known as IBM Tivoli[®] Storage Manager for Storage Area Networks)

[IBM Spectrum Protect for Space Management](#)

[IBM Spectrum Protect HSM for Windows](#)

[IBM Spectrum Protect for Workstations](#)

[IBM Spectrum Protect for Virtual Environments](#)

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[®] 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 Entry (5725-X11), go to the [IBM Spectrum Protect Entry information portals](#) 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 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.

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

Charge metric

For IBM Spectrum Protect, the quantity to be specified for the Passport Advantage part numbers is in the following tables. To order for Passport Advantage, specify the desired part number and quantity.

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect (see note 1)	5725-W98	
IBM Spectrum Protect 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IQHLL	10 PVU
IBM Spectrum Protect 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LVGLL	10 PVU
IBM Spectrum Protect 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IQJLL	10 PVU
IBM Spectrum Protect 10 Processor Value Units (PVUs) Monthly License	D1IMALL	10 PVU
IBM Spectrum Protect per zEnterprise ^(R) Blade Center Extension and Linux on z Systems™ 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1ISJLL	10 PVU
IBM Spectrum Protect per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LVJLL	10 PVU
IBM Spectrum Protect per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1ISKLL	10 PVU
IBM Spectrum Protect per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) Monthly License	D1IMBLL	10 PVU
IBM Spectrum Protect Client Device License + SW Subscription & Support 12 Months	D1IWLLL	Client device
IBM Spectrum Protect Client Device Annual SW Subscription & Support Renewal	E0LWFLL	Client device
IBM Spectrum Protect Client Device SW Subscription & Support Reinstatement 12 Months	D1IWMLL	Client device

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect (see note 1)	5725-W98	
IBM Spectrum Protect Client Device Monthly License	D1IMELL	Client device

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Extended Edition (see note 1)	5725-W99	
IBM Spectrum Protect Extended Edition 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IWNLL	10 PVU
IBM Spectrum Protect Extended Edition 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LWGLL	10 PVU
IBM Spectrum Protect Extended Edition 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IWPLL	10 PVU
IBM Spectrum Protect Extended Edition 10 Processor Value Units (PVUs) Trade Up from IBM Spectrum Protect License + SW Subscription & Support 12 Months	D1IWQLL	10 PVU
IBM Spectrum Protect Extended Edition 10 Processor Value Units (PVUs) Monthly License	D1IMFLL	10 PVU
IBM Spectrum Protect Extended Edition per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IWXLL	10 PVU
IBM Spectrum Protect Extended Edition per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LWKLL	10 PVU
IBM Spectrum Protect Extended Edition per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IWYLL	10 PVU
IBM Spectrum Protect Extended Edition per zEnterprise Blade Center	D1INWLL	10 PVU

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Extended Edition (see note 1)	5725-W99	
Extension and Linux on z Systems 10 Processor Value Units (PVUs) Monthly License		
IBM Spectrum Protect Extended Edition Client Device License + SW Subscription & Support 12 Months	D1IWZLL	Client device
IBM Spectrum Protect Extended Edition Client Device Annual SW Subscription & Support Renewal	E0LWLLL	Client device
IBM Spectrum Protect Extended Edition Client Device SW Subscription & Support Reinstatement 12 Months	D1IX0LL	Client device
IBM Spectrum Protect Extended Edition Client Device Monthly License	D1INXLL	Client device

Preview Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for Data Retention	5725-X15	
IBM Spectrum Protect for Data Retention Terabyte (1-12) License + SW Subscription & Support 12 Months	D1IWFL	Per Terabyte (1-12)
IBM Spectrum Protect for Data Retention Terabyte (1-12) Annual SW Subscription & Support Renewal	E0LWCLL	Per Terabyte (1-12)
IBM Spectrum Protect for Data Retention Terabyte (1-12) SW Subscription & Support Reinstatement 12 Months	D1IWGLL	Per Terabyte (1-12)
IBM Spectrum Protect for Data Retention Terabyte (1-12) Monthly License	D1IP8LL	Per Terabyte (1-12)
IBM Spectrum Protect for Data Retention Terabyte (13-32) License + SW Subscription & Support 12 Months	D1IWHLL	Per Terabyte (13-32)
IBM Spectrum Protect for Data Retention Terabyte (13-32) Annual SW Subscription & Support Renewal	E0LWDLL	Per Terabyte (13-32)
IBM Spectrum Protect for Data Retention Terabyte (13-32) SW Subscription & Support Reinstatement 12 Months	D1IWill	Per Terabyte (13-32)
IBM Spectrum Protect for Data Retention Terabyte (13-32) Monthly License	D1IP9LL	Per Terabyte (13-32)

Preview Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for Data Retention	5725-X15	
IBM Spectrum Protect for Data Retention Terabyte (33-64) License + SW Subscription & Support 12 Months	D1IWJLL	Per Terabyte (33-64)
IBM Spectrum Protect for Data Retention Terabyte (33-64) Annual SW Subscription & Support Renewal	E0LWELL	Per Terabyte (33-64)
IBM Spectrum Protect for Data Retention Terabyte (33-64) SW Subscription & Support Reinstatement 12 Months	D1IWKLL	Per Terabyte (33-64)
IBM Spectrum Protect for Data Retention Terabyte (33-64) Monthly License	D1IPALL	Per Terabyte (33-64)
IBM Spectrum Protect for Data Retention Terabyte (65-100) License + SW Subscription & Support 12 Months	D1IWRL	Per Terabyte (65-100)
IBM Spectrum Protect for Data Retention Terabyte (65-100) Annual SW Subscription & Support Renewal	E0LWHLL	Per Terabyte (65-100)
IBM Spectrum Protect for Data Retention Terabyte (65-100) SW Subscription & Support Reinstatement 12 Months	D1IWSLL	Per Terabyte (65-100)
IBM Spectrum Protect for Data Retention Terabyte (65-100) Monthly License	D1IQCLL	Per Terabyte (65-100)
IBM Spectrum Protect for Data Retention Terabyte (101-250) License + SW Subscription & Support 12 Months	D1IWTLL	Per Terabyte (101-250)
IBM Spectrum Protect for Data Retention Terabyte (101-250) Annual SW Subscription & Support Renewal	E0LWILL	Per Terabyte (101-250)
IBM Spectrum Protect for Data Retention Terabyte (101-250) SW Subscription & Support Reinstatement 12 Months	D1IWULL	Per Terabyte (101-250)
IBM Spectrum Protect for Data Retention Terabyte (101-250) Monthly License	D1IQDLL	Per Terabyte (101-250)
IBM Spectrum Protect for Data Retention Terabyte (251+) License + SW Subscription & Support 12 Months	D1I WVLL	Per Terabyte (251+)
IBM Spectrum Protect for Data Retention Terabyte (251+) Annual SW Subscription & Support Renewal	E0LWJLL	Per Terabyte (251+)

Preview Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for Data Retention	5725-X15	
IBM Spectrum Protect for Data Retention Terabyte (251+) SW Subscription & Support Reinstatement 12 Months	D1IWWLL	Per Terabyte (251+)
IBM Spectrum Protect for Data Retention Terabyte (251+) Monthly License	D1IRBLL	Per Terabyte (251+)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for Databases	5725-X01	
IBM Spectrum Protect for Databases 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IWELL	10 PVU
IBM Spectrum Protect for Databases 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LWBLL	10 PVU
IBM Spectrum Protect for Databases 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IWDLL	10 PVU
IBM Spectrum Protect for Databases 10 Processor Value Units (PVUs) Monthly License	D1IRCLL	10 PVU
IBM Spectrum Protect for Databases per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IWBLL	10 PVU
IBM Spectrum Protect for Databases per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LWALL	10 PVU
IBM Spectrum Protect for Databases per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IWCLL	10 PVU
IBM Spectrum Protect for Databases per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) Monthly License	D1IRDLL	10 PVU

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for Enterprise Resource Planning	5725-X03	
IBM Spectrum Protect for Enterprise Resource Planning 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IV9LL	10 PVU
IBM Spectrum Protect for Enterprise Resource Planning 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LVULL	10 PVU
IBM Spectrum Protect for Enterprise Resource Planning 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IVALL	10 PVU
IBM Spectrum Protect for Enterprise Resource Planning 10 Processor Value Units (PVUs) Monthly License	D1IRELL	10 PVU

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for Mail	5725-X02	
IBM Spectrum Protect for Mail 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IVBLL	10 PVU
IBM Spectrum Protect for Mail 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LVVLL	10 PVU
IBM Spectrum Protect for Mail 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IVCLL	10 PVU
IBM Spectrum Protect for Mail 10 Processor Value Units (PVUs) Monthly License	D1IRTLL	10 PVU
IBM Spectrum Protect for Mail per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IVDLL	10 PVU
IBM Spectrum Protect for Mail per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LVWLL	10 PVU

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for Mail	5725-X02	
IBM Spectrum Protect for Mail per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IVELL	10 PVU
IBM Spectrum Protect for Mail per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) Monthly License	D1ISCLL	10 PVU

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for Workstations	5725-X12	
IBM Spectrum Protect for Workstations 25 Client Devices License + SW Subscription & Support 12 Months	D1IVFLL	Client device
IBM Spectrum Protect for Workstations 25 Client Devices Annual SW Subscription & Support Renewal	E0LVXLL	Client device
IBM Spectrum Protect for Workstations 25 Client Devices SW Subscription & Support Reinstatement 12 Months	D1IVGLL	Client device
IBM Spectrum Protect for Workstations 25 Client Devices Monthly License	D1ISHLL	Client device

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for Workstations Starter Edition	5725-X13	
IBM Spectrum Protect for Workstations - Starter Edition Client Device License + SW Subscription & Support 12 Months	D1IVHLL	Client device
IBM Spectrum Protect for Workstations - Starter Edition Client Device Annual SW Subscription & Support Renewal	E0LVYLL	Client device
IBM Spectrum Protect for Workstations - Starter Edition Client Device SW Subscription & Support Reinstatement 12 Months	D1IVILL	Client device
IBM Spectrum Protect for Workstations - Starter Edition Client Device Monthly License	D1ISILL	Client device

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for SAN	5725-X18	
IBM Spectrum Protect for SAN 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IVJLL	10 PVU
IBM Spectrum Protect for SAN 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LVZLL	10 PVU
IBM Spectrum Protect for SAN 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IVKLL	10 PVU
IBM Spectrum Protect for SAN 10 Processor Value Units (PVUs) Monthly License	D1IUHLL	10 PVU
IBM Spectrum Protect for SAN Client Device License + SW Subscription & Support 12 Months	D1IVLLL	Client device
IBM Spectrum Protect for SAN Client Device Annual SW Subscription & Support Renewal	E0LW0LL	Client device
IBM Spectrum Protect for SAN Client Device SW Subscription & Support Reinstatement 12 Months	D1IVMLL	Client device
IBM Spectrum Protect for SAN Client Device Monthly License	D1IUILL	Client device
IBM Spectrum Protect for SAN per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IVNLL	10 PVU
IBM Spectrum Protect for SAN per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LW1LL	10 PVU
IBM Spectrum Protect for SAN per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IVPLL	10 PVU
IBM Spectrum Protect for SAN per zEnterprise Blade Center Extension and Linux on z Systems 10 Processor Value Units (PVUs) Monthly License	D1IUULL	10 PVU

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for Virtual Environments	5725-X00	
IBM Spectrum Protect for Virtual Environments 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IVQLL	10 PVU
IBM Spectrum Protect for Virtual Environments 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LW2LL	10 PVU
IBM Spectrum Protect for Virtual Environments 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IVRLL	10 PVU
IBM Spectrum Protect for Virtual Environments 10 Processor Value Units (PVUs) Monthly License	D1IUPLL	10 PVU

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect for Space Management	5725-X04	
IBM Spectrum Protect for Space Management 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D1IVSLL	10 PVU
IBM Spectrum Protect for Space Management 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E0LW3LL	10 PVU
IBM Spectrum Protect for Space Management 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D1IVTLL	10 PVU
IBM Spectrum Protect for Space Management 10 Processor Value Units (PVUs) Monthly License	D1IUQLL	10 PVU

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect High Speed Data Transfer	5725-Z10	
IBM Spectrum Protect High Speed Data Transfer per Install License + SW Subscription & Support 12 Months	D1LBGLL	per Install
IBM Spectrum Protect High Speed Data Transfer per Install Annual SW	E0MEWLL	per Install

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect High Speed Data Transfer	5725-Z10	
Subscription & Support Renewal		
IBM Spectrum Protect High Speed Data Transfer per Install SW Subscription & Support Reinstatement 12 Months	D1LBHLL	per Install
IBM Spectrum Protect High Speed Data Transfer per Install Monthly License	D1LBKLL	per Install

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite	5725-X05	
IBM Cloud Object Storage Tier Managed Terabyte		
IBM Spectrum Protect Suite -IBM Cloud Object Storage Tier Managed Terabyte License + SW Subscription & Support 12 Months	D1V8ILL	Managed Terabyte
IBM Spectrum Protect Suite -IBM Cloud Object Storage Tier Managed Terabyte SW Subscription & Support Reinstatement 12 Months	D1V8JLL	Managed Terabyte
IBM Spectrum Protect Suite -IBM Cloud Object Storage Tier Managed Terabyte Monthly License	D1V8KLL	Managed Terabyte
IBM Spectrum Protect Suite -IBM Cloud Object Storage Tier Managed Terabyte Annual SW Subscription & Support Renewal	E0NWCLL	Managed Terabyte
IBM Spectrum Protect Suite -IBM Cloud Object Storage Tier per Linux on z Systems Managed Terabyte License + SW Subscription & Support 12 Months	D1V8LLL	Managed Terabyte
IBM Spectrum Protect Suite -IBM Cloud Object Storage Tier per Linux on z Systems Managed Terabyte SW Subscription & Support Reinstatement 12 Months	D1V8MLL	Managed Terabyte
IBM Spectrum Protect Suite -IBM Cloud Object Storage Tier per Linux on z Systems Managed Terabyte Monthly License	D1V8NLL	Managed Terabyte
IBM Spectrum Protect Suite -IBM Cloud Object Storage Tier per Linux on z Systems Managed Terabyte Annual SW Subscription & Support Renewal	E0NWDLL	Managed Terabyte

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite	5725-X05	
Per terabyte		
IBM Spectrum Protect Suite Terabyte (1-100) License + SW Subscription & Support 12 Months	D1IVULL	Per Terabyte (1-100)
IBM Spectrum Protect Suite Terabyte (1-100) Annual SW Subscription & Support Renewal	E0LW4LL	Per Terabyte (1-100)
IBM Spectrum Protect Suite Terabyte (1-100) SW Subscription & Support Reinstatement 12 Months	D1IVVLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite Terabyte (1-100) Trade Up from IBM Spectrum Protect Suite - Entry License + SW Subscription & Support 12 Months	D1IVWLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite Terabyte (1-100) Monthly License	D1IM1LL	Per Terabyte (1-100)
IBM Spectrum Protect Suite Terabyte (101-250) License + SW Subscription & Support 12 Months	D1IVXLL	Per Terabyte (101-250)
IBM Spectrum Protect Suite Terabyte (101-250) Annual SW Subscription & Support Renewal	E0LW5LL	Per Terabyte (101-250)
IBM Spectrum Protect Suite Terabyte (101-250) SW Subscription & Support Reinstatement 12 Months	D1IVYLL	Per Terabyte (101-250)
IBM Spectrum Protect Suite Terabyte (101-250) Monthly License	D1IM2LL	Per Terabyte (101-250)
IBM Spectrum Protect Suite Terabyte (251-500) License + SW Subscription & Support 12 Months	D1IVZLL	Per Terabyte (251-500)
IBM Spectrum Protect Suite Terabyte (251-500) Annual SW Subscription & Support Renewal	E0LW6LL	Per Terabyte (251-500)
IBM Spectrum Protect Suite Terabyte (251-500) SW Subscription & Support Reinstatement 12 Months	D1IW0LL	Per Terabyte (251-500)
IBM Spectrum Protect Suite Terabyte (251-500) Monthly License	D1IM3LL	Per Terabyte (251-500)
IBM Spectrum Protect Suite Terabyte (501-750) License + SW Subscription & Support 12 Months	D1IW1LL	Per Terabyte (501-750)
IBM Spectrum Protect Suite Terabyte (501-750) Annual SW Subscription & Support Renewal	E0LW7LL	Per Terabyte (501-750)
IBM Spectrum Protect Suite Terabyte (501-750)	D1IW2LL	Per Terabyte (501-750)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite	5725-X05	
SW Subscription & Support Reinstatement 12 Months		
IBM Spectrum Protect Suite Terabyte (501-750) Monthly License	D1IM4LL	Per Terabyte (501-750)
IBM Spectrum Protect Suite Terabyte (751-1250) License + SW Subscription & Support 12 Months	D1IW3LL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite Terabyte (751-1250) Annual SW Subscription & Support Renewal	E0LW8LL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite Terabyte (751-1250) SW Subscription & Support Reinstatement 12 Months	D1IW4LL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite Terabyte (751-1250) Monthly License	D1IM5LL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite Terabyte (1251-2000) License + SW Subscription & Support 12 Months	D1IW5LL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite Terabyte (1251-2000) Annual SW Subscription & Support Renewal	E0LW9LL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite Terabyte (1251-2000) SW Subscription & Support Reinstatement 12 Months	D1IW6LL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite Terabyte (1251-2000) Monthly License	D1IMCLL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite Terabyte (2001+) License + SW Subscription & Support 12 Months	D1IMYLL	Per Terabyte (2001+)
IBM Spectrum Protect Suite Terabyte (2001+) Annual SW Subscription & Support Renewal	E0LUMLL	Per Terabyte (2001+)
IBM Spectrum Protect Suite Terabyte (2001+) SW Subscription & Support Reinstatement 12 Months	D1IMZLL	Per Terabyte (2001+)
IBM Spectrum Protect Suite Terabyte (2001+) Monthly License	D1IMDLL	Per Terabyte (2001+)
Per Linux on z Systems terabyte		
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (1-100) License + SW Subscription & Support 12 Months	D1INOLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (1-100)	E0LUNLL	Per Terabyte (1-100)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite	5725-X05	
Annual SW Subscription & Support Renewal		
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (1-100) SW Subscription & Support Reinstatement 12 Months	D1IN1LL	Per Terabyte (1-100)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (1-100) Monthly License	D1IMGLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (101-250) License + SW Subscription & Support 12 Months	D1IN2LL	Per Terabyte (101-250)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (101-250) Annual SW Subscription & Support Renewal	E0LUPLL	Per Terabyte (101-250)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (101-250) SW Subscription & Support Reinstatement 12 Months	D1IN3LL	Per Terabyte (101-250)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (101-250) Monthly License	D1IMHLL	Per Terabyte (101-250)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (251-500) License + SW Subscription & Support 12 Months	D1IN4LL	Per Terabyte (251-500)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (251-500) Annual SW Subscription & Support Renewal	E0LUQLL	Per Terabyte (251-500)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (251-500) SW Subscription & Support Reinstatement 12 Months	D1IN5LL	Per Terabyte (251-500)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (251-500) Monthly License	D1IMILL	Per Terabyte (251-500)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (501-750) License + SW Subscription & Support 12 Months	D1IN6LL	Per Terabyte (501-750)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (501-750) Annual SW	E0LURLL	Per Terabyte (501-750)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite	5725-X05	
Subscription & Support Renewal		
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (501-750) SW Subscription & Support Reinstatement 12 Months	D1IN7LL	Per Terabyte (501-750)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (501-750) Monthly License	D1IMJLL	Per Terabyte (501-750)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (751-1250) License + SW Subscription & Support 12 Months	D1IN8LL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (751-1250) Annual SW Subscription & Support Renewal	E0LUSLL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (751-1250) SW Subscription & Support Reinstatement 12 Months	D1IN9LL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (751-1250) Monthly License	D1IMPLL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (1251-2000) License + SW Subscription & Support 12 Months	D1INALL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (1251-2000) Annual SW Subscription & Support Renewal	E0LUTLL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (1251-2000) SW Subscription & Support Reinstatement 12 Months	D1INBLL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (1251-2000) Monthly License	D1IMQLL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (2001+) License + SW Subscription & Support 12 Months	D1INCLL	Per Terabyte (2001+)
IBM Spectrum Protect Suite per Linux on z	E0LUULL	Per Terabyte (2001+)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite	5725-X05	
Systems Terabyte (2001+) Annual SW Subscription & Support Renewal		
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (2001+) SW Subscription & Support Reinstatement 12 Months	D1INDLL	Per Terabyte (2001+)
IBM Spectrum Protect Suite per Linux on z Systems Terabyte (2001+) Monthly License	D1IMRLL	Per Terabyte (2001+)
ProtectTIER^(R) option		
IBM Spectrum Protect Suite -ProtectTIER Option Terabyte License + SW Subscription & Support 12 Months	D1IMKLL	Per Terabyte
IBM Spectrum Protect Suite -ProtectTIER Option Terabyte Annual SW Subscription & Support Renewal	E0LUKLL	Per Terabyte
IBM Spectrum Protect Suite -ProtectTIER Option Terabyte SW Subscription & Support Reinstatement 12 Months	D1IMLLL	Per Terabyte
IBM Spectrum Protect Suite -ProtectTIER Option Terabyte Monthly License	D1INELL	Per Terabyte
Archive option		
IBM Spectrum Protect Suite - Archive Option Terabyte License + SW Subscription & Support 12 Months	D1IMMLL	Per Terabyte
IBM Spectrum Protect Suite - Archive Option Terabyte Annual SW Subscription & Support Renewal	E0LULLL	Per Terabyte
IBM Spectrum Protect Suite - Archive Option Terabyte SW Subscription & Support Reinstatement 12 Months	D1IMNLL	Per Terabyte
IBM Spectrum Protect Suite - Archive Option Terabyte Monthly License	D1INVLL	Per Terabyte
IBM Spectrum Protect Suite - Archive Option per Linux on z Systems Terabyte License + SW Subscription & Support 12 Months	D1INTLL	Per Terabyte
IBM Spectrum Protect Suite - Archive Option per Linux on z Systems Terabyte Annual SW Subscription & Support Renewal	E0LV1LL	Per Terabyte
IBM Spectrum Protect Suite - Archive Option	D1INULL	Per Terabyte

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite	5725-X05	
per Linux on z Systems Terabyte SW Subscription & Support Reinstatement 12 Months		
IBM Spectrum Protect Suite - Archive Option per Linux on z Systems Terabyte Monthly License	D1IPBLL	Per Terabyte
Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite Entry	5725-X06	
IBM Spectrum Protect Suite Entry Terabyte (1-100) License + SW Subscription & Support 12 Months	D1INFLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite Entry Terabyte (1-100) Annual SW Subscription & Support Renewal	E0LUVLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite Entry Terabyte (1-100) SW Subscription & Support Reinstatement 12 Months	D1INGLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite Entry Terabyte (1-100) Monthly License	D1IPCLL	Per Terabyte (1-100)
Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite - Front End	5725-X07	
IBM Spectrum Protect Suite - Front End Terabyte (1-100) License + SW Subscription & Support 12 Months	D1INHLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite - Front End Terabyte (1-100) Annual SW Subscription & Support Renewal	E0LUWLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite - Front End Terabyte (1-100) SW Subscription & Support Reinstatement 12 Months	D1INILL	Per Terabyte (1-100)
IBM Spectrum Protect Suite - Front End Terabyte (1-100) Trade Up from IBM Spectrum Protect Suite Entry - Front End License + SW Subscription & Support 12 Months	D1INJLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite - Front End Terabyte (1-100) Monthly License	D1IPGLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite - Front End Terabyte (101-250) License + SW	D1INKLL	Per Terabyte (101-250)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite - Front End	5725-X07	
Subscription & Support 12 Months		
IBM Spectrum Protect Suite - Front End Terabyte (101-250) Annual SW Subscription & Support Renewal	E0LUXLL	Per Terabyte (101-250)
IBM Spectrum Protect Suite - Front End Terabyte (101-250) SW Subscription & Support Reinstatement 12 Months	D1INLLL	Per Terabyte (101-250)
IBM Spectrum Protect Suite - Front End Terabyte (101-250) Monthly License	D1IPHLL	Per Terabyte (101-250)
IBM Spectrum Protect Suite - Front End Terabyte (251-500) License + SW Subscription & Support 12 Months	D1INMLL	Per Terabyte (251-500)
IBM Spectrum Protect Suite - Front End Terabyte (251-500) Annual SW Subscription & Support Renewal	E0LUYLL	Per Terabyte (251-500)
IBM Spectrum Protect Suite - Front End Terabyte (251-500) SW Subscription & Support Reinstatement 12 Months	D1INNLL	Per Terabyte (251-500)
IBM Spectrum Protect Suite - Front End Terabyte (251-500) Monthly License	D1IPILL	Per Terabyte (251-500)
IBM Spectrum Protect Suite - Front End Terabyte (501-750) License + SW Subscription & Support 12 Months	D1INPLL	Per Terabyte (501-750)
IBM Spectrum Protect Suite - Front End Terabyte (501-750) Annual SW Subscription & Support Renewal	E0LUZLL	Per Terabyte (501-750)
IBM Spectrum Protect Suite - Front End Terabyte (501-750) SW Subscription & Support Reinstatement 12 Months	D1INQLL	Per Terabyte (501-750)
IBM Spectrum Protect Suite - Front End Terabyte (501-750) Monthly License	D1IPJLL	Per Terabyte (501-750)
IBM Spectrum Protect Suite - Front End Terabyte (751-1250) License + SW Subscription & Support 12 Months	D1INRLL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite - Front End Terabyte (751-1250) Annual SW Subscription & Support Renewal	E0LVOLL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite - Front End Terabyte (751-1250) SW	D1INSL	Per Terabyte (751-1250)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite - Front End	5725-X07	
Subscription & Support Reinstatement 12 Months		
IBM Spectrum Protect Suite - Front End Terabyte (751-1250) Monthly License	D1IPKLL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite - Front End Terabyte (1251-2000) License + SW Subscription & Support 12 Months	D1IPNLL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite - Front End Terabyte (1251-2000) Annual SW Subscription & Support Renewal	E0LV4LL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite - Front End Terabyte (1251-2000) SW Subscription & Support Reinstatement 12 Months	D1IPPLL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite - Front End Terabyte (1251-2000) Monthly License	D1IPLLL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite - Front End Terabyte (2001+) License + SW Subscription & Support 12 Months	D1IPQLL	Per Terabyte (2001+)
IBM Spectrum Protect Suite - Front End Terabyte (2001+) Annual SW Subscription & Support Renewal	E0LV5LL	Per Terabyte (2001+)
IBM Spectrum Protect Suite - Front End Terabyte (2001+) SW Subscription & Support Reinstatement 12 Months	D1IPRLL	Per Terabyte (2001+)
IBM Spectrum Protect Suite - Front End Terabyte (2001+) Monthly License	D1IPMLL	Per Terabyte (2001+)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (1-100) License + SW Subscription & Support 12 Months	D1IPSLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (1-100) Annual SW Subscription & Support Renewal	E0LV6LL	Per Terabyte (1-100)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (1-100) SW Subscription & Support Reinstatement 12 Months	D1IPTLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (1-100) Monthly License	D1IS4LL	Per Terabyte (1-100)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite - Front End	5725-X07	
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (101-250) License + SW Subscription & Support 12 Months	D1IPULL	Per Terabyte (101-250)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (101-250) Annual SW Subscription & Support Renewal	E0LV7LL	Per Terabyte (101-250)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (101-250) SW Subscription & Support Reinstatement 12 Months	D1IPVLL	Per Terabyte (101-250)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (101-250) Monthly License	D1ISELL	Per Terabyte (101-250)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (251-500) License + SW Subscription & Support 12 Months	D1IPWLL	Per Terabyte (251-500)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (251-500) Annual SW Subscription & Support Renewal	E0LV8LL	Per Terabyte (251-500)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (251-500) SW Subscription & Support Reinstatement 12 Months	D1IPXLL	Per Terabyte (251-500)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (251-500) Monthly License	D1ISFLL	Per Terabyte (251-500)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (501-750) License + SW Subscription & Support 12 Months	D1IPYLL	Per Terabyte (501-750)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (501-750) Annual SW Subscription & Support Renewal	E0LV9LL	Per Terabyte (501-750)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (501-750) SW Subscription & Support Reinstatement 12 Months	D1IPZLL	Per Terabyte (501-750)
IBM Spectrum Protect Suite - Front End per Linux	D1IUULL	Per Terabyte (501-750)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite - Front End	5725-X07	
on z Systems Terabyte (501-750) Monthly License		
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (751-1250) License + SW Subscription & Support 12 Months	D1IQ0LL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (751-1250) Annual SW Subscription & Support Renewal	E0LVALL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (751-1250) SW Subscription & Support Reinstatement 12 Months	D1IQ1LL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (751-1250) Monthly License	D1IV6LL	Per Terabyte (751-1250)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (1251-2000) License + SW Subscription & Support 12 Months	D1IQ2LL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (1251-2000) Annual SW Subscription & Support Renewal	E0LVBLL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (1251-2000) SW Subscription & Support Reinstatement 12 Months	D1IQ3LL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (1251-2000) Monthly License	D1IV7LL	Per Terabyte (1251-2000)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (2001+) License + SW Subscription & Support 12 Months	D1IQ4LL	Per Terabyte (2001+)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (2001+) Annual SW Subscription & Support Renewal	E0LVCLL	Per Terabyte (2001+)
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (2001+) SW Subscription	D1IQ5LL	Per Terabyte (2001+)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite - Front End	5725-X07	
& Support Reinstatement 12 Months		
IBM Spectrum Protect Suite - Front End per Linux on z Systems Terabyte (2001+) Monthly License	D1IV8LL	Per Terabyte (2001+)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Suite Entry - Front End	5725-X08	
IBM Spectrum Protect Suite Entry - Front End Terabyte (1-100) License + SW Subscription & Support 12 Months	D1IQ6LL	Per Terabyte (1-100)
IBM Spectrum Protect Suite Entry - Front End Terabyte (1-100) Annual SW Subscription & Support Renewal	E0LVDLL	Per Terabyte (1-100)
IBM Spectrum Protect Suite Entry - Front End Terabyte (1-100) SW Subscription & Support Reinstatement 12 Months	D1IQ7LL	Per Terabyte (1-100)
IBM Spectrum Protect Suite Entry - Front End Terabyte (1-100) Monthly License	D1IPDLL	Per Terabyte (1-100)

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect Entry	5725-X11	
IBM Spectrum Protect Entry Managed Virtual Server License + SW Subscription & Support 12 Months	D1UDULL	Per Managed Virtual Server
IBM Spectrum Protect Entry Managed Virtual Server SW Subscription & Support Reinstatement 12 Months	D1UDVLL	Per Managed Virtual Server
IBM Spectrum Protect Entry Managed Virtual Server Annual SW Subscription & Support Renewal	E0NS8LL	Per Managed Virtual Server
IBM Spectrum Protect Entry Managed Virtual Server Monthly License	D1UDWLL	Per Managed Virtual Server

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect HSM for Windows	5725-X14	
IBM Spectrum Protect HSM for Windows Terabyte License + SW Subscription & Support 12 Months	D1IQALL	Per Terabyte

Program name	Part number or PID number	Charge metric
IBM Spectrum Protect HSM for Windows	5725-X14	
IBM Spectrum Protect HSM for Windows Terabyte Annual SW Subscription & Support Renewal	E0LVFLL	Per Terabyte
IBM Spectrum Protect HSM for Windows Terabyte SW Subscription & Support Reinstatement 12 Months	D1IQBLL	Per Terabyte

Note 1: Client licenses are interchangeable between IBM Spectrum Protect and IBM Spectrum Protect Extended Edition

Licensing metric definitions

IBM Spectrum Protect for Data Retention (formerly IBM Tivoli System Storage^(R) Archive Manager) terabyte capacity

IBM Spectrum Protect for Data Retention terabyte capacity includes primary disk storage pool size combined with the amount of utilized primary removable media storage used by the IBM Spectrum Protect for Data Retention server.

Capacity does not include:

- Copy storage pools for the space-managed data that reside on disk.
- Copy storage pools for the space-managed data that reside on removable media.
- Space used on the IBM Tivoli Storage Manager server for any purpose other than the primary storage of space-managed data.
- Disk on the host being space managed.

A virtual tape library (VTL) is considered a removable media device, so capacity is based on utilization.

The minimum amount of capacity that can be purchased is 1 terabyte.

Partial capacity will be rounded up to the next whole number of terabytes.

Additional capacity must be added in increments of 1 terabyte.

Tiered Decimal Terabytes (1-12), (13-32), (33-64), (65-100), (101-250), (251+)

Decimal Terabyte (1--12), Decimal Terabyte (13--32), Decimal Terabyte (33--64), Decimal Terabyte (65--100), Decimal Terabyte (101--250), and Decimal Terabyte (251+) is a unit of measure by which the Program can be licensed. Proofs of Entitlement are based on the number of Decimal Terabytes available to the Program. A Decimal Terabyte is 10 to the 12th power bytes. Licensee must obtain sufficient entitlements required for Licensee's environment. The entitlements are specific to the Program and may not be exchanged, interchanged or aggregated with entitlements of another program.

Instead of the entitlements required for the Program directly, Licensee must obtain Terabyte entitlements for the Program sufficient to cover the storage managed by the Program.

Tiered Terabytes (large) (1-100), (101-250), (251-500), (501-750), (751-1,250), (1,251-2,000), (2001+)

Terabyte (1--100), Terabyte (101--250), Terabyte (251--500), Terabyte (501--750), Terabyte (751--1250), Terabyte (1251--2000) and Terabyte (2000+) is a unit of measure by which the Program can be licensed. Proofs of Entitlement are based on the number of Terabytes available to the Program. A Terabyte is 2 to the 40th power bytes. Licensee must obtain sufficient entitlements required for

Licensee's environment. The entitlements are specific to the Program and may not be exchanged, interchanged or aggregated with entitlements of another program.

Instead of the entitlements required for the program directly, Licensee must obtain Terabyte entitlements for the Program sufficient to cover the storage managed by the Program.

IBM Spectrum Protect Suite (formerly IBM Tivoli Storage Manager Suite for Unified Recovery) Tiered Terabytes (large) capacity

For IBM Spectrum Protect Suite, Licensee must obtain sufficient entitlements required for all data stored in the designated IBM Spectrum Protect primary storage pool volumes and for all data stored in the designated Tivoli Storage Manager FastBack[®] repository volumes and for all data managed by the IBM Spectrum Protect Snapshot.

IBM Spectrum Protect Suite - Front End (formerly IBM Tivoli Storage Manager Suite for Unified Recovery - Front End) Tiered Terabytes (large) capacity

For IBM Spectrum Protect Suite - Front End, licensee must obtain sufficient entitlements required for the aggregate amount of data protected by the program.

IBM Spectrum Protect Suite - Archive Option terabyte capacity

Entitlements for the IBM Spectrum Protect Suite - Archive Option component apply only to data classified as archive data within IBM Spectrum Protect that results from running an archive operation, and the data must reside on tape or VTL within the primary storage pool. An archive operation is designated either through IBM Spectrum Protect's user interface itself or through IBM Spectrum Protect's application programming interface (API). Data stored on virtual tape appears to IBM Spectrum Protect as physical tape. The IBM Spectrum Protect Suite - Archive Option price applies to the capacity level recognized by IBM Spectrum Protect (which equates to the amount of data sent to the virtual tape). Subsequent deduplication of data within a VTL does not reduce the capacity level recognized by IBM Spectrum Protect.

Licensee must obtain sufficient entitlements required for all data stored in the designated IBM Spectrum Protect primary storage pool volumes and for all data stored in the designated IBM Tivoli Storage Manager Fastback repository volumes and for all data managed by the IBM Spectrum Protect Snapshot.

IBM Spectrum Protect Suite --IBM Cloud Object Storage Tier terabyte capacity

Entitlements for the Spectrum Protect Suite --IBM Cloud Object Storage Tier component apply only to data stored either on-premises IBM Cloud Object Storage device or public-based IBM Cloud Object Storage. The Spectrum Protect Suite --IBM Cloud Object Storage Tier price applies to the capacity level recognized by Spectrum Protect.

IBM Spectrum Protect Suite -ProtectTIER Option terabyte capacity

Licensee must obtain sufficient entitlements for the total aggregate usable physical capacity of all the IBM ProtectTIER repositories that are available to the IBM Spectrum Protect primary storage pool, excluding the capacity for disaster recovery sites used for replication only.

Standby or backup systems

For programs running or resident on backup machines, IBM defines three types of situations: cold, warm, and hot. In cold and warm situations, a separate entitlement for the copy on the backup machine is normally not required and typically no additional charge applies. In a hot backup situation, the customer needs to acquire other license or entitlements sufficient for that server. All programs running in

backup mode must be solely under the customer's control, even if running at another enterprise's location.

As a practice, the following are definitions and allowable actions concerning the copy of the program used for backup purposes.

- **Cold:** A copy of the program may reside, for backup purposes, on a machine as long as the program is not started. There is no additional charge for this copy.
- **Warm:** A copy of the program may reside for backup purposes on a machine and is started, but is idling, and is not doing any work of any kind. There is no additional charge for this copy.
- **Hot:** A copy of the program may reside for backup purposes on a machine, is started, and is doing work. The customer must acquire a license or entitlements for this copy and there will generally be an additional charge.

Doing work includes, for example, production, development, program maintenance, and testing. It also could include other activities such as mirroring of transactions, updating of files, synchronization of programs, data, or other resources (for example, active linking with another machine, program, database or other resource, and so on), or any activity or configurations that would allow an active hot switch or other synchronized switch over between programs, databases, or other resources to occur. In the case of a program or system configuration that is designed to support a high availability environment by using various techniques (for example, duplexing, mirroring of files, or transactions, maintaining a heartbeat, active linking with another machine, program, database, or other resource), the program is considered to be doing work in the hot situation and a license or entitlement must be purchased.

High availability and disaster recovery (HADR)

To use HADR to replicate from one IBM Spectrum Protect server (with IBM Db2 included) to another IBM Spectrum Protect server (with Db2 included), no additional Db2 licensing is required.

To use HADR to replicate from a IBM Spectrum Protect server (with bundled Db2) to a nonbundled Db2 instance, the licensee must purchase 100 Processor Value Units (PVUs) to obtain a license for Db2 Enterprise Edition (bundled).

Pricing examples

Pricing example for IBM Spectrum Protect Suite --IBM Cloud Object Storage Tier

Scenario 1

A client has Spectrum Protect Suite --IBM Cloud Object Storage Tier with 5 TB of data stored on-premises IBM Cloud Object Storage device. The client must purchase 5 TB of Spectrum Protect Suite --IBM Cloud Object Storage Tier.

Scenario 2

A client has Spectrum Protect Suite --IBM Cloud Object Storage Tier with 20 TB of data stored on a public-cased IBM Cloud Object Storage. The client must purchase 20 TB of Spectrum Protect Suite --IBM Cloud Object Storage Tier.

Pricing examples for IBM Spectrum Protect

The following examples are provided to illustrate the client's licensing requirements.

References to processor-based licensing **do not** represent the actual number of entitlements required. Entitlement requirements are Value Unit based. Processors referenced in these examples represent the designated measurement on which the required number of Value Unit entitlements will be calculated. The number of Value Units required per processor will depend on the processor type.

Notes:

- When using Processor Value Unit based licensing, license entitlements for IBM Spectrum Protect or IBM Spectrum Protect Extended Edition are required for all managed servers, including the managing server. Licensing entitlement is Processor Value Unit based and both full capacity and sub-capacity licensing are offered.
- A Proof of Entitlement (PoE) for IBM Spectrum Protect Extended Edition is required to use any of the following functions: node replication (and the use of REPLICATE NODE command as a target server), disaster recovery manager, Network Data Management Protocol (NDMP), support of tape libraries (including virtual tape libraries) with more than 4 drives or more than 48 slots.
- A IBM Spectrum Protect Extended Edition server can only be used to manage IBM Spectrum Protect Extended Edition components or clients.
- A IBM Spectrum Protect Extended Edition server can act as a target server for disaster recovery purposes, with the exception of node replication, for IBM Spectrum Protect servers.
- The use of node replication (REPLICATE NODE command) requires the same user entitlements for both the server that sends the data (source server) and the server that receives the data (target server).
- IBM Spectrum Protect or IBM Spectrum Protect Extended Edition licensing requirements for General Parallel File System (GPFS™) and IBM Scale Out Network Attached Storage require IBM Spectrum Protect entitlements for each node performing data movement.
- Entitlement conversions to one of the IBM Spectrum Protect Suites requires entitlement of IBM Spectrum Protect Extended Edition. If there is entitlement of IBM Spectrum Protect, then a trade up to IBM Spectrum Protect Extended Edition is required as a precondition to the entitlement conversion.
- All Network Attached Storage (NAS) devices that are being backed up require entitlement for IBM Spectrum Protect or IBM Spectrum Protect Extended Edition. If NDMP is used, then entitlement for IBM Spectrum Protect Extended Edition is required. If a proxy server or data mover is being used, then that server does not require additional entitlement.
- A IBM Spectrum Protect for SAN entitlement is required for each IBM Spectrum Protect server that is sharing a library where a IBM Spectrum Protect acts as the library manager. An entitlement is required for each library client and library manager. A IBM Spectrum Protect for SAN license entitlement is required for each system that performs LAN-free operations.

Go to the [Software requirements](#) for more information about IBM Spectrum Protect for SAN.

- Client Device entitlements for IBM Spectrum Protect and IBM Spectrum Protect Extended Edition are interchangeable.

Scenario 1: The client wants to do basic archiving and retrieval for all of the LAN-connected servers in its network. The customer environment consists of the following:

- Twenty client devices (laptops)
- Ten 4-way servers
- Five 8-way mail servers
- Five 16-way database servers
- One 32-way server
- One 8-way managing server

The client must obtain the following entitlements for IBM Spectrum Protect or IBM Spectrum Protect Extended Edition:

Systems managed	Quantity in customer environment	Total client device entitlements required
Client devices	20	20
Total client device entitlements		20

Systems managed	Quantity in customer environment	Total client device entitlements required
4-way	10	40
8-way	5	40
16-way	5	80
32-way	1	32
8-way (managing server)	1	8
Total processor entitlements		200

The customer must obtain the following additional entitlements for IBM Spectrum Protect for Databases:

Systems managed	Quantity in customer environment	Total client device entitlements required
16-way	5	80
Total processor entitlements		80

Note: This example is valid for any database application supported by IBM Spectrum Protect for Databases. IBM Spectrum Protect or IBM Spectrum Protect Extended Edition is required for each system with a database managed by IBM Spectrum Protect for Databases.

The client must obtain the following additional entitlements for IBM Spectrum Protect for Mail:

Systems managed	Quantity in customer environment	Total client device entitlements required
8-way	5	40
Total processor entitlements		40

Note: This example is valid for any mail application supported by IBM Spectrum Protect for Mail. IBM Spectrum Protect or IBM Spectrum Protect Extended Edition is required for each system with a mail server managed by IBM Spectrum Protect for Mail.

Scenario 2: VMware environment with VMware vStorage APIs for data protection

The client environment consists of the following:

- ESX server 1 with four virtual servers, three running as file servers, and the fourth running as a Microsoft SQL server.
- ESX server 2 with four virtual servers, three running as file servers, and the fourth running as a Microsoft Exchange server.
- Both ESX servers are backed up using the VMware vStorage APIs from a proxy server.
- Each virtual machine is assigned one processor core.
- The client is backing up only the file servers.

Notes:

- IBM Spectrum Protect or IBM Spectrum Protect Extended Edition full-capacity entitlement requires that all physical system cores on VMware ESX servers, being backed up by the proxy server, are to be entitled.
- IBM Spectrum Protect or IBM Spectrum Protect Extended Edition sub-capacity entitlement requires that the virtual cores, assigned to virtual machines on VMware ESX servers being backed up by the proxy server, are to be entitled.
- VMware vStorage API for Data Protection proxy server does not require entitlement for IBM Spectrum Protect, IBM Spectrum Protect Extended Edition, or IBM Spectrum Protect for Virtual Environments.

Full-capacity requirement

Quantity of processor core entitlements required	ESX 1 (4 way)	ESX 2 (4 way)	Proxy server (4 way)	Total
IBM Spectrum Protect or IBM Spectrum Protect Extended Edition	4	4	0	8

Sub-capacity requirement

Quantity of processor core entitlements required	ESX 1 (4 way)	ESX 2 (4 way)	Proxy server (4 way)	Total
IBM Spectrum Protect or IBM Spectrum Protect Extended Edition	3	3	0	6

Note: Only the virtual machines running as file servers require entitlement. Since these are the only machines being backed up, the client does not back up the fourth virtual machine.

Scenario 3: VMware environment with IBM Spectrum Protect or IBM Spectrum Protect Extended Edition backup agent installed inside a virtual machine and the client is backing up Oracle and Microsoft Exchange.

The client environment consists of the following:

- ESX server 1 with four virtual servers, three running as file servers, and the fourth running as an Oracle server.
- ESX server 2 with four virtual servers, three running as file servers, and the fourth running as a Microsoft Exchange server.
- Each virtual machine is assigned one processor core.

Notes:

- The full-capacity IBM Spectrum Protect or IBM Spectrum Protect Extended Edition entitlement requirement is based on physical system cores and not virtual cores.
- The sub-capacity IBM Spectrum Protect or IBM Spectrum Protect Extended Edition entitlement requirement is based on virtual cores.

Full-capacity requirements

Quantity of processor core entitlements required	ESX 1 (4 way)	ESX 2 (4 way)	Total
IBM Spectrum Protect or IBM Spectrum Protect Extended Edition	4	4	8
IBM Spectrum Protect for Databases	4	0	4
IBM Spectrum Protect for Mail	0	4	4

Note: If VMware vMotion is running across all ESX servers, enabling migration of virtual machines between the two ESX servers, then the ESX cluster is treated as

the server at full capacity, which requires all cores on all ESX servers to be entitled. If VMotion is running in the above scenario, then IBM Spectrum Protect Extended Edition, IBM Spectrum Protect for Databases, and IBM Spectrum Protect for Mail will each require eight cores to be entitled.

Sub-capacity requirements

Quantity of processor core entitlements required	ESX 1 (4 way)	ESX 2 (4 way)	Total
IBM Spectrum Protect or IBM Spectrum Protect Extended Edition	4	4	8
IBM Spectrum Protect for Databases	1	0	1
IBM Spectrum Protect for Mail	0	1	1

Note: If VMware VMotion is running across all ESX servers, enabling migration of virtual machines between the two ESX servers, entitlement requirements would not change from the above required entitlements.

Scenario 4: VMware environment with IBM Spectrum Protect or IBM Spectrum Protect Extended Edition backup agent running inside a virtual machine.

The client environment consists of one ESX server 1 with four virtual servers, three running as file servers, and the fourth running as an Oracle server.

Notes:

- The full capacity IBM Spectrum Protect or IBM Spectrum Protect Extended Edition entitlement requirement is based on physical system cores and not virtual cores.
- The sub-capacity IBM Spectrum Protect or IBM Spectrum Protect Extended Edition entitlement requirement is based on virtual cores.

Full-capacity requirements

Quantity of processor core entitlements required	ESX 1 (4 way)	Total
IBM Spectrum Protect or IBM Spectrum Protect Extended Edition	4	4
IBM Spectrum Protect for Databases	4	4

Sub-capacity requirements

Quantity of processor core entitlements required	ESX 1 (4 way)	Total
IBM Spectrum Protect or IBM Spectrum Protect Extended Edition	4	4
IBM Spectrum Protect for Databases	1	1

Scenario 5: Network Attached Storage (NAS) device backup

The customer environment consists of the following:

- The NAS device is being backup using NDMP
- One 4-way NAS device

- One 4-way server (acting as a data mover)
- One 8-way IBM Spectrum Protect Server

The client must obtain the following entitlements for IBM Spectrum Protect Extended Edition:

	Customer environment	Entitlements required
4-way NAS Device	4	4
4-way Data Mover	4	0
8-way IBM Spectrum Protect Server	8	8
Total processor entitlements		12

If in addition to the NAS device being backed up, the data mover has locally attached data that is being backed up to the IBM Spectrum Protect server, the client must obtain the following entitlements for IBM Spectrum Protect Extended Edition.

	Customer environment	Entitlements required
4-way NAS Device	4	4
4-way Data Mover	4	4
8-way Server	8	8
Total processor entitlements		16

Pricing examples for IBM Spectrum Protect for Data Retention

Scenario 1

A customer has a IBM Spectrum Protect for Data Retention server with a 5 TB primary disk storage pool and a removable media storage pool that will store 4 TB of data within the next 12 months. The data in the primary storage pools will be copied for off-site protection to a copy pool. The client has designated 10 TB of removable media for a copy storage pool.

The client needs to purchase 9 TB of IBM Spectrum Protect for Data Retention.

Primary disk storage pool	Removable media storage pool	Capacity	Required entitlements
5 TB	4 TB	9 TB	9 TB of IBM Spectrum Protect for Data Retention for Windows

Scenario 2 (additional capacity)

A customer had purchased 9 TB of IBM Spectrum Protect for Data Retention. Twelve months after that initial purchase, the customer is managing 9 TB of data. Over the next 12 months, the client estimates they will need to manage an additional 2.4 TB worth of data.

The client should purchase an additional 3 TB of IBM Spectrum Protect for Data Retention.

Primary disk storage pool	Removable media storage pool	Capacity	Required entitlements
5 TB	6.4 TB	11.4 TB	12 TB of IBM Spectrum Protect for Data Retention for Windows

Pricing examples for IBM Spectrum Protect HSM for Windows

Entitlement for IBM Spectrum Protect HSM for Windows is based on the terabyte capacity being space managed (migrated). Capacity is defined as the primary HSM

disk storage pool size combined with the amount of utilized HSM removable media storage pool. Storage pools are configured on the IBM Spectrum Protect server. The minimum amount of capacity that can be purchased is 1 TB. Partial capacity will be rounded up to the next whole number of terabyte. Additional capacity must be added in multiples of 1 TB. Capacity does not include:

- Copy storage pools for the space-managed data that reside on disk.
- Copy storage pools for the space-managed data that reside on removable media .

Scenario 1

A client wants to space manage 4.25 TB of files from six Microsoft Windows file servers. This means 4.25 TB of files will be migrated from their current location to the IBM Spectrum Protect server's primary HSM storage pools. The migrated files will be replaced with references to the original file. The data in the primary HSM storage pools will be copied for off-site protection to a copy pool. The customer has designated 0.25 TB of disk for an HSM disk storage pool, 4 TB for a HSM removable media storage pool, and 6 TB of removable media for a copy storage pool.

The client needs to purchase 5 TB of IBM Spectrum Protect HSM for Windows.

HSM disk storage pool	HSM removable media storage pool	Capacity	Required entitlements
0.25 TB	4 TB	4.25 TB	5 TB of IBM Spectrum Protect HSM for Windows

Scenario 2 (additional capacity)

Client had purchased 5 TB of IBM Spectrum Protect HSM for Windows. Over the last 12 months, the client consumed the 5 TB of HSM capacity they purchased initially in addition to an additional 1 TB. Over the next 12 months, they expect the amount of space managed data will grow to 9 TB total. They will continue to keep the 0.25 TB for the HSM disk storage pool and, therefore, store the remaining 8.75 TB in the removable media storage pool.

The client should purchase an additional 4 TB of IBM Spectrum Protect HSM for Windows.

HSM disk storage pool	HSM removable media storage pool	Capacity	Required entitlements
0.25 TB	8.75 TB	9 TB	9 TB of IBM Spectrum Protect HSM for Windows

Pricing examples for IBM Spectrum Protect for Virtual Environments

Protecting VMware environments using IBM Spectrum Protect for Virtual Environments.

The client environment consists of the following:

- vSphere (host) 1 with 12 virtual machines (guests)
- vSphere (host) 2 with 19 virtual machines (guests)
- All of the guests on both vSphere servers (hosts) are protected using IBM Spectrum Protect for Virtual Environments

Notes:

- Either IBM Spectrum Protect or IBM Spectrum Protect Extended Edition are prerequisite products for IBM Spectrum Protect for Virtual Environments and require entitlement on all physical system cores on the vSphere hosts.

This entitlement applies only to the VMware vSphere hosts protected by IBM Spectrum Protect for Virtual Environments.

- IBM Spectrum Protect for Virtual Environments is physically installed on a centralized VMware vStorage backup server, which is a secondary or proxy machine that is used to perform the backup using the VMware vStorage application programming interface (API). This secondary or proxy machine can be either a physical machine or a virtual machine. A single VMware vStorage backup server can be used to protect one or more virtual machines that reside on one or more vSphere servers. The client can use one or more VMware vStorage backup servers.
- Entitlements for IBM Spectrum Protect for Virtual Environments, IBM Spectrum Protect, and IBM Spectrum Protect Extended Edition are not required on the VMware vStorage backup server. IBM Spectrum Protect for Virtual Environment, IBM Spectrum Protect, and IBM Spectrum Protect Extended Edition entitlements are only required for the managed environment, which is the processor cores on the VMware vSphere hosts running the virtual machines being protected.
- IBM Spectrum Protect for Virtual Environments can also be licensed under sub-capacity software licensing terms, if required. Processor Value Unit (PVU) sub-capacity licensing lets you license an eligible software product for less than the full capacity (or total number of processors) of your server or group of servers. It provides the licensing granularity needed to leverage various multicore chip and virtualization technologies. The sub-capacity software licensing terms are documented in the International Passport Advantage Agreement (IPAA) Attachment for Sub-capacity Licensing Terms (Sub-capacity Licensing Attachment).
- IBM Spectrum Protect for Virtual Environments sub-capacity entitlement requires that the virtual cores, assigned to virtual machines on VMware ESX servers being backed up by the proxy server, are to be entitled.

Full-capacity requirement

Scenario 1: Use a single VMware vStorage backup server to protect both VMware vSphere hosts

Quantity of processor core entitlements required	VMware vSphere host 1 (4 way)	VMware vSphere host 2 (8 way)	VMware vStorage backup server (2 way)	Total
IBM Spectrum Protect or IBM Spectrum Protect Extended Edition	4	8	0	12
IBM Spectrum Protect for Virtual Environments	4	8	0	12

Scenario 2: Use two (2 way) VMware vStorage backup servers to protect only the larger VMware Sphere host

Quantity of processor core entitlements required	VMware vSphere host 1 (4 way)	VMware vSphere host 2 (8 way)	VMware vStorage backup server 1 (2 way)	VMware vStorage backup server 2 (2 way)	Total
IBM Spectrum Protect or IBM Spectrum Protect Extended Edition	0	8	0	0	8

Quantity of processor core entitlements required	VMware vSphere host 1 (4 way)	VMware vSphere host 2 (8 way)	VMware vStorage backup server 1 (2 way)	VMware vStorage backup server 2 (2 way)	Total
IBM Spectrum Protect for Virtual Environments	0	8	0	0	8

Pricing example for IBM Spectrum Protect Suite and IBM Spectrum Protect Suite - Front End

IBM Spectrum Protect Suite and IBM Spectrum Protect Suite - Front End use the same tiered terabyte pricing model. The model consists of seven tiers that are to be used cumulatively. All tiers must be used in order (begin with the first tier and move on to the second tier, and so on) to arrive at the desired total amount of terabytes.

IBM Spectrum Protect Suite - Front End measures capacity on protected data at the source, instead of using capacity at IBM Spectrum Protect primary storage pool on the backend.

Based on the actual terabyte tiers, the following example is an illustration, using variables for prices, that shows how to calculate the prices:

Tier TB range (actual)	\$K/TB
1-100	x
101-250	y
251-500	z
501-750	a
751-1,250	b
1,251-2,000	c
2,001+	d

Total TB ordered	How it is charged
50 TB	(x * 50 TB)
150 TB	(x * 100 TB) + (y * 50 TB)
500 TB	(x * 100 TB) + (y * 150 TB) + (z * 250 TB)
1,200 TB	(x * 100 TB) + (y * 150 TB) + (z * 250 TB) + (a * 250 TB) + (b * 450 TB)
1,800 TB	(x * 100 TB) + (y * 150 TB) + (z * 250 TB) + (a * 250 TB) + (b * 500 TB) + (c * 550 TB)
2,500 TB	(x * 100 TB) + (y * 150 TB) + (z * 250 TB) + (a * 250 TB) + (b * 500 TB) + (c * 750 TB) + (d * 500 TB)

Pricing example for IBM Spectrum Protect Suite Archive Option

Scenario 1

A client has IBM Spectrum Protect Suite Archive Option with a 5 TB primary disk storage pool and a removable media storage pool that will store 4 TB of data within the next 12 months. The data in the primary storage pools will be copied for off-site protection to a copy pool. The client has designated 10 TB of removable media for a copy storage pool.

The client must purchase 9 TB of IBM Spectrum Protect Suite Archive Option.

Primary disk storage pool	Removable media storage pool	Capacity	Required entitlements
5 TB	4 TB	9 TB	9 TB of IBM Spectrum Protect

Primary disk storage pool	Removable media storage pool	Capacity	Required entitlements
			Suite Archive Option

Scenario 2 (additional capacity)

A client purchased 9 TB of IBM Spectrum Protect Suite Archive Option. Twelve months after that initial purchase, the client is managing 9 TB of data. Over the next 12 months, the client estimates they will need to manage an additional 2.4 TB worth of data.

The client should purchase an additional 3 TB of IBM Spectrum Protect Suite Archive Option.

Primary disk storage pool	Removable media storage pool	Capacity	Required entitlements
5 TB	6.4.TB	11.4 TB	12 TB of IBM Spectrum Protect Suite Archive Option

Pricing example for IBM Spectrum Protect Suite ProtecTIER Option

If a client has IBM ProtecTIER with a total aggregate usable physical capacity, excluding any capacity for disaster recovery sites used for replication only, of 20 TB that they will use as part of their IBM Spectrum Protect primary storage pool, they require Proof of Entitlements (PoEs) of 20 TB of IBM Spectrum Protect Suite ProtecTIER Option, regardless of the amount utilized. For example, in the case where the ProtecTIER has a total aggregate usable physical capacity of 20 TB and the client has 10 TB stored, the licensing requirement is for 20 TB.

Note: Entitlements for IBM Spectrum Protect Suite ProtecTIER Option and IBM Spectrum Protect Suite standard tiers are not interchangeable and are separately licensed.

Pricing example for IBM Spectrum Protect Suite Entry (formerly IBM Tivoli Storage Manager for Unified Recovery - Entry)

IBM Spectrum Protect Suite Entry supports a combined maximum of 100 TB per enterprise in the designated IBM Spectrum Protect primary storage pool volumes and for all data stored in the designated Tivoli Storage Manager FastBack repository volumes.

If a client has 10 TB in their IBM Spectrum Protect primary storage pool and 10 TB in their Tivoli Storage Manager FastBack repository, the client requires PoEs of 20 TB of IBM Spectrum Protect Suite Entry.

If a client reaches the maximum of 100 TB under management and foresees the need for more licenses, the client will require a trade up to IBM Spectrum Protect Suite (5725-X05).

Pricing example for IBM Spectrum Protect Suite Entry - Front End

IBM Spectrum Protect Suite Entry - Front End supports a maximum of 100 TB per enterprise for the aggregate amount of data protected by the program.

If a client has 10 TB protected data, the client requires PoEs of 10 TB of IBM Spectrum Protect Entry - Front End.

If a client reaches the maximum of 100 TB under management and foresees the need for more licenses, the client will require a trade up to IBM Spectrum Protect Suite - Front End (5725-X07).

Pricing example for IBM Spectrum Protect High Speed Data Transfer

IBM Spectrum Protect High Speed Data Transfer is sold on a per install license.

The High Speed Data Transfer capability is included in IBM Spectrum Protect Extended Edition server, therefore, also included in the IBM Spectrum Protect servers that are in the IBM Spectrum Protect Suites (back end and front end), however it is licensed and sold separately from IBM Spectrum Protect Extended Edition server and the servers included in the Suites.

- License key is required to activate, which is supplied upon purchase.
- Support only for Linux x86.

Scenario 1

The customer has remote location in Los Angeles that has a IBM Spectrum Protect managing server. The customer's main data center is in New York. The customer wants to do replication from a server in Los Angeles to a server in New York.

The customer environment consists of the following:

- Two managing servers (one in Los Angeles and one in New York)
- Five 4-way file servers
- Three 8-way mail servers

Entitlements for the above environment are:

- IBM Spectrum Protect High Speed Data Transfer requires 2 entitlements, one install for each IBM Spectrum Protect managing server (Los Angeles and New York).

Note: Other IBM Spectrum Protect products in the environment require entitlement per the offering's licensing requirements.

Scenario 2

The customer has remote locations in Los Angeles and Dallas. Each location has one IBM Spectrum Protect managing server. The customer's main data center is in New York. The customer wants to do replication from the server in Los Angeles to the server in New York and from the server in Dallas to the server in New York.

The customer environment consists of the following:

- Three managing servers (one in Los Angeles, one in Dallas and one in New York)
- Five 4-way file servers
- Three 8-way mail servers

Entitlements for the above environment are:

- IBM Spectrum Protect High Speed Data Transfer requires 3 entitlements, one install for each IBM Spectrum Protect managing server (Los Angeles, Dallas, and New York)

Note: Other IBM Spectrum Protect products in the environment require entitlement per the offering's licensing requirements.

Pricing example for IBM Spectrum Protect Entry products

- A Managed Virtual Server for IBM Spectrum Protect Entry is a server that is managed or protected by one of the components of this offering.
- Use is supported for up to 50 Managed Virtual Servers per enterprise, up to 25 of which can be virtual host servers.
- Use is supported with 100 or fewer nodes registered to IBM Spectrum Protect per enterprise. The replicated nodes do not count towards the 100 node count.
- IBM Spectrum Protect Entry is only supported on Microsoft Windows, Linux x86, and Linux on POWER^(R) platform.
- When using Per Managed Virtual Server licensing, entitlement for IBM Spectrum Protect Entry is required for all managed servers including the managing server.

- Clients who are entitled to IBM Spectrum Protect Entry are allowed to use node replication capability.

Scenario 1

The client wants to do backup and recovery operations for all LAN-connected servers in its network. The client environment consists of the following:

- One managing server
- Ten 4-way file servers
- Two 8-way mail servers

Entitlements required for the above environment are:

Product description	Quantity of entitlement required
IBM Spectrum Protect	1
IBM Spectrum Protect (Backup Assistant client)	10
IBM Spectrum Protect for Mail	2
Total IBM Spectrum Protect Entry Entitlement	13

Scenario 2

The client wants to do backup and recovery operations for all LAN-connected servers in its network. The client environment consists of the following:

- One 16-way managing server
- Two 16-way VMware ESX Host servers
- Six 8-way mail servers
- Six 16-way database servers

Entitlements required for the above environment are:

Product description	Quantity of entitlement required
IBM Spectrum Protect	1
IBM Spectrum Protect for Virtual Environments	2
IBM Spectrum Protect for Mail	6
IBM Spectrum Protect for Databases	6
Total IBM Spectrum Protect Entry entitlement	15

Scenario 3

The clients wants to do backup and recovery operations for all LAN-connected servers in its network. The client environment consists of the following:

- One managing server
- Two VMware ESX Host servers
- Eight mail servers; four of which are running in virtual machine hosted by one ESX host
- Nine database servers; two of which are running in virtual machines hosted by ESX host

Entitlements required for the above environment:

Product description	Quantity of entitlement required
IBM Spectrum Protect	1
IBM Spectrum Protect for Virtual Environments	2
IBM Spectrum Protect for Mail	8

Product description	Quantity of entitlement required
IBM Spectrum Protect for Databases	9
Total IBM Spectrum Protect Entry entitlement:	20

Examples for IBM Spectrum Protect Snapshot within the IBM Spectrum Protect Suites

Scenario	What is measured for entitlement	
IBM Spectrum Protect Suite - Front End capacity measurement	Scenario 1 offloads snapshots into IBM Spectrum Protect	Size of protected application on source volume
	Scenario 2 does not offload snapshots into IBM Spectrum Protect Suite	Size of protected application on source volume
IBM Spectrum Protect Suite - Back End capacity measurement	Scenario 3 offloads snapshots into IBM Spectrum Protect	Size of protected application on source volumes multiplied by the number of local snapshots managed and size of active/inactive objects in IBM Spectrum Protect Primary Storage Pools
	Scenario 4 does not offload snapshots into IBM Spectrum Protect	Size of protected application on source volumes multiplied by the number of local snapshots managed

Pricing example for IBM Spectrum Protect Suite - Front End with IBM Spectrum Protect Snapshot

Scenario 1

A client purchases IBM Spectrum Protect Suite - Front End to protect one 500 GB (.5 TB) Microsoft SQL server database and one Oracle 3 TB database. The client keeps two fully allocated snapshots on disk and four full, uncompressed versions in IBM Spectrum Protect server for both databases. The client protects 3.5 TB front-end database capacity.

$$0.5 \text{ TB} + 3 \text{ TB} = 3.5 \text{ TB}$$

The client must purchase 4 TB of IBM Spectrum Protect Suite - Front End.

Snapshots in array	IBM Spectrum Protect Primary Storage Pool	Capacity	Required entitlements
7 TB	14 TB	3.5 TB	4 TB of IBM Spectrum Protect Suite - Front End

Scenario 2

A client purchases IBM Spectrum Protect Suite - Front End to protect one 500 GB (.5 TB) Microsoft SQL server database and one Oracle 3 TB database. The client keeps two fully allocated snapshots on disk for both databases. No data is stored in IBM Spectrum Protect server, snapshots are being stored on disk only. The client protects 0.5 TB + 3 TB = 3.5 TB front-end database capacity.

The client must purchase 4 TB of IBM Spectrum Protect Suite - Front End.

Snapshots in array	IBM Spectrum Protect Primary Storage Pool	Capacity	Required entitlements
7 TB	0 TB	3.5 TB	4 TB of IBM Spectrum Protect Suite - Front End

Pricing example for IBM Spectrum Protect Suite with IBM Spectrum Protect Snapshot

Scenario 3

A client purchases IBM Spectrum Protect Suite to protect one 500 GB Microsoft SQL server database and one Oracle 3 TB database. The client keeps two fully allocated snapshots on disk and four full, uncompressed versions in IBM Spectrum Protect server for both database. The client protects 3.5 TB, which need to be multiplied by the snapshots on disk and the versions in IBM Spectrum Protect.

The client must purchase $(3.5 \text{ TB} \times 2) + (3.5 \text{ TB} \times 4) = 21 \text{ TB}$ of IBM Spectrum Protect Suite.

Snapshots in array	IBM Spectrum Protect Primary Storage Pool	Capacity	Required entitlements
7 TB	14 TB	21 TB	21 TB of IBM Spectrum Protect Suite

Scenario 4

A client purchases IBM Spectrum Protect Suite to protect one 500 GB Microsoft SQL server database and one Oracle 3 TB database. The client keeps two fully allocated snapshots on disk for both databases. No data is stored in IBM Spectrum Protect server, snapshots are being stored on disk only. The client protects 3.5 TB, which need to be multiplied by the snapshots on disk.

The client must purchase $3.5 \text{ TB} \times 2 = 7 \text{ TB}$ of IBM Spectrum Protect Suite.

Snapshots in array	IBM Spectrum Protect Primary Storage Pool	Capacity	Required entitlements
7 TB	0 TB	7 TB	7 TB of IBM Spectrum Protect Suite

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.

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License Information number

PID	Product name	VRM	License Information number
5725-W98	IBM Spectrum Protect	8.1.3	L-BEBY-AP2U6Q
	IBM Spectrum Protect- Std EE DR and SAN stacked license	8.1.3	L-BEBY-AP2U5A
5725-X11	IBM Spectrum Protect Entry	8.1.3	L-FAMR-APMAWF
5725-W99	IBM Spectrum Protect Extended Edition	8.1.3	L-BEBY-AP2UA6
5725-Z10	IBM Spectrum Protect High Speed Data Transfer	8.1.0	L-BEBY-AAWRHK
5725-X15	IBM Spectrum Protect for Data Retention	8.1.3	L-BEBY-AP2UCL
5725-X01	IBM Spectrum Protect for Databases	8.1.2	L-BEBY-AM2M4D
5725-X03	IBM Spectrum Protect for Enterprise Resource Planning	8.1.1	L-BEBY-AJ53EG
5725-X02	IBM Spectrum Protect for Mail	8.1.2	L-BEBY-AM2M5L
5725-X18	IBM Spectrum Protect for SAN	8.1.3	L-BEBY-AP2UEE
5725-X04	IBM Spectrum Protect for Space Management	8.1.2	L-BEBY-AM2M6P
5725-X00	IBM Spectrum Protect for Virtual Environments	8.1.2	L-BEBY-AM2M94
5725-X14	IBM Spectrum Protect HSM for Windows	8.1.2	L-BEBY-AM2M82
5725-X12	IBM Spectrum Protect for Workstations	8.1.2	L-FAMR-ANDCUC
5725-X13	IBM Spectrum Protect for	8.1.2	L-FAMR-ANDCWN

PID	Product name	VRM	License Information number
	Workstations Starter Edition		
5725-X05	IBM Spectrum Protect Suite	8.1.3	L-FAMR-APMAVY
	IBM Spectrum Protect Suite - Archive Option	8.1.3	L-FAMR-APMAW2
	IBM Spectrum Protect Suite - ProtecTIER Option	8.1.3	L-FAMR-APMAW3
	IBM Spectrum Protect Suite - IBM Cloud Object Storage Option	8.1.3	L-FAMR-APMAWD
5725-X06	IBM Spectrum Protect Suite Entry	8.1.3	L-FAMR-APMAVV
5725-X07	IBM Spectrum Protect Suite - Front End	8.1.3	L-FAMR-APMAWJ
5725-X08	IBM Spectrum Protect Suite Entry - Front End (PPA)	8.1.3	L-FAMR-APMAWL

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 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 restrictions

Yes

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

For additional information, see the License Information document that is available at the [IBM Software License Agreement](#) website.

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.

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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

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