



IBM Tivoli Storage Manager V7.1 and IBM Tivoli Storage FlashCopy Manager V4.1 products deliver significant enhancements in scalability, improved backup and recovery management for virtual environments, and simplified user experiences

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At a glance

IBM® Tivoli® Storage Manager V7.1 products offer the following new capabilities:

- IBM Tivoli Storage Manager and IBM Tivoli Storage Manager Extended Edition V7.1 help reduce backup windows by helping optimize deduplication, node replication, and reclamation processes. A single Tivoli Storage Manager server improves scalability with up to ten times improvement for daily ingest of deduplicated and replicated data over previously published rates, and new reference architectures optimized for data deduplication.
- IBM Tivoli Storage Manager for Virtual Environments V7.1 improves backup and recovery management in VMware environments
- Tivoli Storage Manager Operations Center V7.1 adds integrated administrative actions, improved visibility, and server diagnostics
- Tivoli Storage Manager for Mail V7.1 adds support for Microsoft™ Exchange 2013, and helps improve responsiveness of the mailbox restore browser

IBM Tivoli Storage FlashCopy® Manager V4.1 includes the following new features:

- VMware instant restore for Virtual Machine File System datastores, co-existence with Site Recovery Manager, and NetApp network attached storage (NAS) support for applications on UNIX™ and Linux™
- Central GUI management for distributed Microsoft Windows™ agents

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: YE001).

Overview

IBM Tivoli Storage Manager

Tivoli Storage Manager has been a scalable and available data protection solution since its inception. Tivoli Storage Manager V7.1 introduces both new and improved data protection and management capabilities, and provides IT administrators with the tools to help meet more stringent service level requirements and help reduce the overall costs of maintaining and protecting the data in these complex environments.

Tivoli Storage Manager and Tivoli Storage Manager Extended Edition V7.1 help reduce backup windows and enhance resilience with the following features:

- Increased scalability for daily ingest of deduplicated and replicated data; with up to ten times improvement over previous published daily ingest rates and new reference architectures optimized for data deduplication
- Automatic redirect recovery operations from a replication server

The enhancements noted above for Tivoli Storage Manager and Tivoli Storage Manager Extended Edition V7.1 are also in IBM System Storage® Archive Manager V7.1.

Tivoli Storage Manager for Virtual Environments V7.1 helps to improve backup and recovery management for VMware environments with the following new features:

- VMware full virtual machine instant access and recovery for improved recovery time objectives, including restore verification.
- Item level recovery for Microsoft Exchange Server from a virtual machine backup, database-level recovery for Microsoft SQL Server from a virtual machine backup, and recovery of VMware virtual machines domain controllers hosting Active Directory.
- Data protection for VMware vCloud Director Tenant vApps.
- Additional status and application coverage reporting of VMware environments in the VMware management GUI.
- Simplified installation and configuration consolidates various components into one package and optionally enables configuration of the data mover.

IBM Tivoli Storage Manager for Storage Area Networks V7.1 includes updates necessary to support new capabilities in other Tivoli Storage Manager V7.1 products.

The Tivoli Storage Manager Operations Center V7.1 component that adds integrated administrative actions, improved visibility, and server diagnostics.

The Tivoli Storage Manager V7.1 Backup-Archive Client component provides resiliency and security enhancements for NetApp snapshot-assisted progressive incremental backup, as well as secure socket layer (SSL) support for Macintosh.

Tivoli Storage Manager for Mail V7.1 adds support for Microsoft Exchange 2013, helps improve responsiveness of the mailbox restore browser, and adds remote GUI support, which enables you to manage data protection for Microsoft Exchange agents from a single GUI.

The enhancements noted above are also included in these capacity-priced, bundled offerings:

- IBM Tivoli Storage Manager Suite for Unified Recovery
- IBM Tivoli Storage Manager Suite for Unified Recovery Entry

IBM Tivoli Storage FlashCopy Manager V4.1

Tivoli Storage FlashCopy Manager V4.1 includes the following new features:

- VMware instant restore for Virtual Machine File System (VMFS) datastores, NetApp network attached storage support for applications on UNIX and Linux, and coexistence with VMware vCenter Site Recovery Manager
- Central GUI management for distributed Microsoft Windows agents
- Support for IBM DB2® pureScale® and Microsoft Exchange 2013
- Enhanced responsiveness of, and multilanguage support for, the Exchange mailbox restore browser GUI
- Support for Exchange mailbox restore to PST files larger than 2 GB, and to Unicode PST files
- Enhanced usability of instant restore

Key prerequisites

Refer to the [Technical information](#) section.

Planned availability date

- December 13, 2013: Electronic
- January 17, 2014: DVD media

Description

IBM Tivoli Storage Manager V7.1 family of products (referred to as Tivoli Storage Manager V7.1)

Tivoli Storage Manager is a family of software offerings supporting backup and recovery, space management, archiving, business resilience, and disaster recovery. Tivoli Storage Manager helps you more effectively meet the data protection and recovery objectives across the enterprise, ranging from laptop to mainframe, and from remote office to the data center. The Tivoli Storage Manager family of offerings can optimize backups for physical, virtual, and cloud environments, all from a single management console.

Tivoli Storage Manager and Tivoli Storage Manager Extended Edition V7.1 help reduce backup windows and enhance resilience:

- A single Tivoli Storage Manager server can handle up to ten times daily ingest of deduplicated and replication data over previously published rates. The total time required for Tivoli Storage Manager server to ingest, deduplicate, replicate, expire, and reclaim data is reduced significantly between Tivoli Storage Manager V6.3 and Tivoli Storage Manager V7.1.
- Tivoli Storage Manager is able to process large objects of sizes 10 GB, or larger, more efficiently.
- Node replication for data access, with automated client redirection in case of lack of a server availability.
- Improved installer with integrated installation of Tivoli Storage Manager server and Tivoli Storage Manager Operations Center.

Tivoli Storage Manager for Virtual Environments V7.1 helps to improve backup and recovery management for VMware environments with the following new features:

- VMware full virtual machine instant access and recovery for improved recovery time objective, including restore verification
- Item level recovery for Microsoft Exchange Server from a virtual machine backup; database-level recovery for Microsoft SQL Server from a virtual machine backup; recovery of VMware virtual machines domain controllers hosting Active Directory
- Data protection for VMware vCloud Director tenant vApps
- Additional status and application coverage reporting of VMware environments in the VMware management GUI
- More simplified installation and configuration that reduces various components to a single package and extends the configuration wizard for data mover configuration
- Ability to collocate virtual machine backups by groups to optimize tape usage
- Granular retention policy and management at a virtual machine level

With the Tivoli Storage Manager Operations Center component, you are able to perform administrative actions within the GUI. There is improved visibility for server diagnostics with these capabilities:

- Drive backup or failed backup actions, cancel sessions or processes, register new clients, as well as kick off server maintenance tasks
- Additional visibility to Tivoli Storage Manager server history and logs, better filtering of Tivoli Storage Manager clients needing attention, and advanced filtering options for usability improvements

The Tivoli Storage Manager V7.1 Backup-Archive Client component offers the following new features:

- Resiliency enhancements for NetApp snapshot-assisted progressive incremental backup processing
- HTTPS protocol support for NetApp snapshot-assisted progressive incremental backup
- Secure socket layer (SSL) support for the Macintosh backup-archive client
- Microsoft Windows backup-archive client support for Automated System Recovery (ASR) for Unified Extensible Firmware Interface (UEFI) or Extensible Firmware Interface (EFI) hardware
- Linux backup-archive client support for B-Tree File System

Tivoli Storage Manager for Mail V7.1 adds support and new features, which include:

- Support for 64-bit IBM Domino® 9 Servers running on 64-bit Linux hardware
- Support for Microsoft Exchange 2013
- Remote GUI support, which enables you to manage Data Protection for Microsoft Exchange agents from a single GUI
- Multiple Microsoft Exchange support enhancements including:
 - Improved responsiveness of, and multilanguage support for, the mailbox restore browser GUI
 - Mailbox restore to PST files greater than 2 GB, as well as to Unicode PST files
 - New Powershell cmdlet interface
 - Enhanced usability of instant restore

Tivoli Storage Manager for Databases V7.1 adds support and new features, which include:

- Support for Oracle 12c
- Remote GUI support, which enables you to manage Data Protection for Microsoft SQL agents from a single GUI
- Improved usability of SQL AlwaysOn Availability Group (AAG) backups through added filtering options

Tivoli Storage Manager Fastback for Workstations V7.1 can help enable continuous data protection functionality and instant recovery for up to 25 Windows desktops and laptops. Tivoli Storage Manager Fastback for Workstations Starter Edition V7.1, previously known as IBM Tivoli Continuous Data Protection for Files Starter Edition, can help enable continuous data protection functionality and instant recovery for one Windows desktop or laptop computer.

IBM Tivoli Storage FlashCopy Manager V4.1 includes the following new features:

- VMware instant restore for Virtual Machine File System (VMFS) datastores, NetApp NAS support for applications on UNIX and Linux, and coexistence with Site Recovery Manager (SRM)
- Support for IBM DB2 pureScale and Microsoft Exchange 2013
- Central GUI management for distributed Window agents
- New calendar widget for entering dates in MMC GUI
- Multiple Microsoft Exchange support enhancements including:
 - Improved responsiveness of, and multilanguage support for, the mailbox restore browser GUI

- Mailbox restore to PST files greater than 2 GB, as well as to Unicode PST files
- New Powershell cmdlet interface
- Enhanced usability of instant restore
- Exchange mailbox and item level restores from disk files
- Improved usability of SQL AAG backups through more filtering options

Accessibility by people with disabilities

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

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

Business Partner information

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

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=213-447>

Reference information

For more information about support for IBM Tivoli Storage Manager for Storage Area Networks platform, refer to Software Announcement [211-372](#), dated October 11, 2011.

Program number

Program number	VR	Program name
5608-E01	7.1	IBM Tivoli Storage Manager
5608-E02	7.1	IBM Tivoli Storage Manager Extended Edition
5608-E03	7.1	IBM System Storage Archive Manager
5608-E04	7.1	IBM Tivoli Storage Manager for Databases
5608-E06	7.1	IBM Tivoli Storage Manager for Mail
5608-E07	7.1	IBM Tivoli Storage Manager for Storage Area Networks
5608-E12	7.1	IBM Tivoli Storage Manager for Space Management
5608-E13	7.1	IBM Tivoli Storage Manager HSM for Windows
5725-A44	7.1	IBM Tivoli Storage Manager for Virtual Environments
5724-Z12	7.1	IBM Tivoli Storage Manager Suite for Unified Recovery
5725-H25	7.1	IBM Tivoli Storage Manager Suite for Unified Recovery Entry
5724-Y96	7.1	IBM Tivoli Storage Manager FastBack® for Workstations
5724-S64	7.1	IBM Tivoli Storage Manager FastBack for Workstations Starter Edition
5724-X94	4.1	IBM Tivoli Storage FlashCopy Manager (for Passport Advantage)
5608-ACB	4.1	IBM Tivoli Storage FlashCopy Manager (for AAS)

Product identification number

Program	SW Subscription and Support 1 Year PID no charge registration
PID number	number
5608-ACB	5608-FCY
	SW Subscription and Support 2 Year PID

registration number

5608-R16

SW Subscription and
Support 3 Year PID
registration number

5608-R13

SW Subscription and
Support 4 Year PID
registration number

5608-R17

SW Subscription and
Support 5 Year PID
registration number

5608-R18

Education support

Comprehensive education for IBM Tivoli products is offered through Worldwide Tivoli Education Delivery Services. A wide range of training options are available, including classes led by instructors, learning on demand, on-site training, and blended learning solutions.

For additional information, visit

<http://www-306.ibm.com/software/tivoli/education/>

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage® website

<http://www.ibm.com/software/passportadvantage>

Publications

Documentation will be available in English at the following information center on the general availability date

<http://pic.dhe.ibm.com/infocenter/tsminfo/v7r1/index.jsp>

All available translated documentation will be available within 60 days of the English general availability date. You can download PDFs of the publications from the information center.

Technical information

Specified operating environment

Hardware and software requirements

Tivoli Storage Manager supported devices

Refer to the following websites for the list of devices that are supported by Tivoli Storage Manager (5608-E01), Tivoli Storage Manager Extended Edition (5608-E02),

and IBM System Storage Archive Manager (5608-E03). Libraries that have more than 4 drives or more than 48 tape slots require a license for Tivoli Storage Manager Extended Edition.

For Tivoli Storage Manager supported devices for AIX®, HP-UX, Solaris, and Microsoft Windows, visit

http://www.ibm.com/software/sysmgmt/products/support/IBM_TSM_Supported_Devices_for_AIXH_PSUNWIN.html

For Tivoli Storage Manager supported devices for Linux, visit

http://www.ibm.com/software/sysmgmt/products/support/IBM_TSM_Supported_Devices_for_Linux.html

Hardware and software requirements for the Tivoli Storage Manager V7.1 products are available at the website listed with each product below.

IBM Tivoli Storage Manager V7.1 (refer to Note 1)

<http://www.ibm.com/support/docview.wss?uid=swg21243309>

IBM Tivoli Storage Manager Extended Edition V7.1 (refer to Note 1)

<http://www.ibm.com/support/docview.wss?uid=swg21243309>

IBM System Storage Archive Manager V7.1 (refer to Note 1)

<http://www.ibm.com/support/docview.wss?uid=swg21243309>

IBM Tivoli Storage Manager for Mail V7.1

<http://www.ibm.com/support/docview.wss?uid=swg21219345>

IBM Tivoli Storage Manager for Storage Area Networks V7.1

<http://www.ibm.com/support/docview.wss?uid=swg21321214>

IBM Tivoli Storage Manager for Space Management V7.1

<http://www.ibm.com/support/docview.wss?uid=swg21321200>

IBM Tivoli Storage Manager for HSM for Windows V7.1

<http://www.ibm.com/support/docview.wss?uid=swg21319299>

IBM Tivoli Storage Manager for Databases V7.1

<http://www.ibm.com/support/docview.wss?uid=swg21218747>

IBM Tivoli Storage Manager for Virtual Environments V7.1

<http://www.ibm.com/support/docview.wss?uid=swg21505139>

IBM Tivoli Storage Manager FastBack for Workstations V7.1

<http://www-01.ibm.com/support/docview.wss?uid=swg21643334>

IBM Tivoli Storage Manager FastBack for Workstations Starter Edition V7.1

<http://www-01.ibm.com/support/docview.wss?uid=swg21643334>

For technical requirements for Tivoli Storage Manager Suite for Unified Recovery V7.1 and Tivoli Storage Manager Suite for Unified Recovery Entry V7.1, refer to the individual product websites listed above.

Note 1: Tivoli Storage Manager V7.1, Tivoli Storage Manager Extended Edition V7.1, and IBM System Storage Archive Manager V7.1 have the same hardware, software, and supported device requirements.

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

Companion products

Customers who have a SAN environment may consider purchasing IBM Tivoli Storage Productivity Center in addition to Tivoli Storage Manager. The customer 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, logical connections between the devices, and capacity management of file systems and databases. Additionally, IBM Tivoli Storage Productivity Center complements Tivoli Storage Manager. The customer who leverages these products can benefit from the ability to extend policies and file reports to directly initiate a Tivoli Storage Manager's backup or archive when certain threshold conditions are met, or in the case of file reports, if conditions deem it necessary.

Performance considerations

The Tivoli Storage Manager product's performance will vary depending upon your particular configuration, the client and server options, and customization.

IBM Electronic Support

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement, at no additional charge.

Read about the Electronic Support portfolio of tools

<http://ibm.com/electronicssupport>

Access the IBM Support Portal

<http://ibm.com/support>

Access the online Service Request tool

<http://ibm.com/support/servicerequest>

Planning information

Direct customer support

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

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

<http://www.ibm.com/support>

Packaging

Tivoli Storage Manager V7.1 products are distributed with:

- International Program License Agreement (Z125-3301)

- License Information document
- DVD media
- Publications (refer to the [Publications](#) section)

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

Security, auditability, and control

Tivoli Storage Manager V7.1 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.

Software Services

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

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

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

Licensing metric definitions and pricing examples

Licensing metric definitions

Client Device

Client Device is a unit of measure by which the program can be licensed. A Client Device is a single user computing device or special purpose sensor or telemetry device that requests the execution of or receives for execution a set of commands, procedures, or applications from or provides data to another computer system that is typically referred to as a server or is otherwise managed by the server. Multiple Client Devices may share access to a common server. A Client Device may have some processing capability or be programmable to allow a user to do work. Examples include, but are not limited to actuators, appliances, automated teller machines, automatic meter readers, cash registers, disk drives, desktop computers, kiosks, notebook computers, personal digital assistant, point-of-sale terminals, sensors, smart meters, tape drives, and technical workstations. Licensee must obtain entitlements for every Client Device which runs, provides data to, uses services provided by, or otherwise accesses the program and for every other computer or server on which the program is installed.

Processor Value Unit (PVU)

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU Table by processor value, brand, type, and model number at

http://www.ibm.com/software/lotus/passportadvantage/pvu_licensing_for_customers.html

and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores.

Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (refer to the webpage below). If using full capacity licensing, licensee must obtain PVU entitlements sufficient to cover all activated processor cores* in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using virtualization capacity licensing, licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules at

http://www.ibm.com/software/lotus/passportadvantage/Counting_Software_licenses_using_sp ecific_virtualization_technologies.html

* An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Instead of the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores for the systems on which the resources managed or processed by the program reside.

Terabyte

Terabyte is a unit of measure by which the program can be licensed. A terabyte is 2 to the 40th power bytes. Licensee must obtain an entitlement for each terabyte of storage available to the program.

IBM System Storage Archive Manager terabyte capacity

IBM System Storage Archive Manager terabyte capacity includes primary disk storage pool size combined with the amount of utilized primary removable media storage used by the IBM System Storage Archive Manager 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 Terabytes (1-12), (13-32), (33-64), (65-100), (101-250), (251+)

Terabyte (1-12), Terabyte (13-32), Terabyte (33-64), Terabyte (65-100), Terabyte (101-250), and Terabyte (251+) is a unit of measure by which the program can be licensed. Proofs of Entitlement (PoEs) 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 Tivoli Storage Manager Suite for Unified Recovery terabyte capacity

Tiered Terabytes (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 (751-1,250), Terabyte (1,251-2,000), Terabyte (2,001+) is a unit of measure by which the program can be licensed. PoEs 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.

For Tivoli Storage Manager Suite for Unified Recovery, licensee must obtain sufficient entitlements required for all data stored in the designated Tivoli Storage Manager primary storage pool volumes and for all data stored in the designated Tivoli Storage Manager FastBack repository volumes.

IBM Tivoli Storage Manager Suite for Unified Recovery - Archive Option terabyte capacity

Entitlements for the new Tivoli Storage Manager Suite for Unified Recovery - Archive Option component apply only to data classified as archive data within Tivoli Storage Manager 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 via the Tivoli Storage Manager's user interface itself or through Tivoli Storage Manager's application programming interface (API). Data stored on virtual tape appears to Tivoli Storage Manager as physical tape. The Tivoli Storage Manager Suite for Unified Recovery - Archive Option price applies to the capacity level recognized by Tivoli Storage Manager (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 Tivoli Storage Manager.

IBM Tivoli Storage Manager Suite for Unified Recovery - ProtecTIER® Option Terabyte capacity

Licensee must obtain sufficient entitlements for the total aggregate usable physical capacity of all the IBM ProtecTIER repositories that are available to the IBM Tivoli Storage Manager primary storage pool, excluding the capacity for Disaster Recovery sites used for replication only.

Pricing examples

Pricing examples for Tivoli Storage Manager

The following examples are provided to illustrate the customer'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 Tivoli Storage Manager or IBM Tivoli Storage Manager 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 is offered.
- A PoE for IBM Tivoli Storage Manager 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.
- An IBM Tivoli Storage Manager Extended Edition server can only be used to manage IBM Tivoli Storage Manager Extended Edition components or clients.
- A Tivoli Storage Manager Extended Edition server can act as a target server for disaster recovery purposes, with the exception of node replication, for Tivoli Storage Manager servers.
- The use of node replication (REPLICATE NODE command) requires the same end-user entitlements for both the server that sends the data (source server) and the server that receives the data (target server).
- Tivoli Storage Manager or Tivoli Storage Manager Extended Edition licensing requirements for General Parallel File System (GPFS™) and IBM SONAS require Tivoli Storage Manager license entitlements for each node performing data movement.
- Entitlement conversions to Tivoli Storage Manager Suite for Unified Recovery require entitlement of Tivoli Storage Manager Extended Edition. If there is entitlement of Tivoli Storage Manager, then a trade up to Tivoli Storage Manager 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 Tivoli Storage Manager or IBM Tivoli Storage Manager Extended Edition. If NDMP is used, then entitlement for IBM Tivoli Storage Manager Extended Edition is required. If a proxy server or data mover is being used, then that server does not require additional entitlement.
- An IBM Tivoli Storage Manager for Storage Area Networks entitlement is required for each IBM Tivoli Storage Manager server that is sharing a library where an IBM Tivoli Storage Manager acts as the library manager. An entitlement is required for each library client and library manager. An IBM Tivoli Storage Manager for Storage Area Networks license entitlement is required for each system that performs LAN-free operations.

Go to the [Reference information](#) section for more information about IBM Tivoli Storage Manager for Storage Area Networks.

- Client Device entitlements for IBM Tivoli Storage Manager and IBM Tivoli Storage Manager Extended Edition are interchangeable.

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

- 20 Client devices (laptops)
- 10 4-way servers
- Five 8-way mail servers
- Five 16-way database servers
- One 32-way server
- One 8-way managing server

The customer must obtain the following entitlements for IBM Tivoli Storage Manager or IBM Tivoli Storage Manager Extended Edition:

systems managed	Quantity in customer	Total client device
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	environment	entitlements required
Client devices	20	20
Total client device entitlements		20
Systems managed	Quantity in customer environment	Processor 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 Tivoli Storage Manager for Databases:

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

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

The customer must obtain the following additional entitlements for IBM Tivoli Storage Manager for Mail:

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

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

Scenario 2: VMware environment with VMware vStorage APIs for Data Protection

The customer 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 vStorage APIs from a proxy server.
- Each virtual machine is assigned one processor core.
- The customer is backing up only the file servers.

Notes :

- IBM Tivoli Storage Manager or IBM Tivoli Storage Manager 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 Tivoli Storage Manager or IBM Tivoli Storage Manager 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 Tivoli Storage Manager, Tivoli Storage Manager Extended Edition, or Tivoli Storage Manager 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
TSM or TSM 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
TSM or TSM 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 customer does not back up the fourth virtual machine.

Scenario 3: VMware environment with IBM Tivoli Storage Manager or IBM Tivoli Storage Manager Extended Edition backup agent installed inside a virtual machine and the customer is backing up Oracle and Microsoft Exchange

The customer 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 Tivoli Storage Manager or IBM Tivoli Storage Manager Extended Edition entitlement requirement is based on physical system cores and not virtual cores.
- The sub-capacity IBM Tivoli Storage Manager or IBM Tivoli Storage Manager 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
TSM or TSM Extended Edition	4	4	8
TSM for Databases	4	0	4
TSM 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 Tivoli Storage Manager Extended Edition, IBM Tivoli Storage Manager for Databases, and IBM Tivoli Storage Manager 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
TSM or TSM Extended Edition	4	4	8
TSM for Databases	1	0	1
TSM 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 Tivoli Storage Manager or IBM Tivoli Storage Manager Extended Edition backup agent running inside a virtual machine

The customer 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.

Notes :

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

Full capacity requirements

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

Sub-capacity requirements

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

Scenario 5: Network Attached Storage (NAS) device backup

The customer environment consists of the following:

- The NAS device is being backed up using NDMP.
- One 4-way NAS device.
- One 4-way server (acting as a data mover).
- One 8-way Tivoli Storage Manager Server.

The customer must obtain the following entitlements for IBM Tivoli Storage Manager Extended Edition

	Customer environment	Entitlements required
4-way NAS Device	4	4
4-way Data Mover	4	0
8-way TSM 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 Tivoli Storage Manager Server, the customer must obtain the following entitlements for IBM Tivoli Storage Manager Extended Edition.

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

Pricing examples for IBM System Storage Archive Manager

Scenario 1

A customer has an IBM System Storage Archive Manager server with a 5 terabytes (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 customer has designated 10 TB of removable media for a copy storage pool.

The customer needs to purchase 9 TB of IBM System Storage Archive Manager.

Primary disk storage pool	Removable media storage pool	Capacity	Required entitlements
5 TB	4 TB	9 TB	9 TB of IBM System Storage Archive Manager for windows

Scenario 2 (additional capacity)

A customer had purchased 9 TB of IBM System Storage Archive Manager. 12 months after that initial purchase, the customer is managing 9 TB of data. Over the next 12 months, the customer estimates they will need to manage an additional 2.4 TB worth of data.

The customer should purchase an additional 3 TB of IBM System Storage Archive Manager.

Primary disk storage pool	Removable media storage pool	Capacity	Required entitlements
5 TB	6.4 TB	11.4 TB	12 TB of IBM System Storage Archive Manager for windows

Pricing examples for Tivoli Storage Manager HSM for Windows

Entitlement for Tivoli Storage Manager HSM for Windows is based on the TB 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 Tivoli Storage Manager 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 TB. 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 customer 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 Tivoli Storage Manager 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 customer needs to purchase 5 TB of Tivoli Storage Manager 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 Tivoli Storage Manager HSM for Windows

Scenario 2 (additional capacity):

A customer had purchased 5 TB of Tivoli Storage Manager HSM for Windows. Over the last 12 months, the customer 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 thus store the remaining 8.75 TB in the removable media storage pool.

The customer should purchase an additional 4 TB of Tivoli Storage Manager 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 Tivoli Storage Manager HSM for Windows

Pricing examples for Tivoli Storage Manager for Virtual Environments

Protecting VMware environments using Tivoli Storage Manager for Virtual Environments

The customer 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 Tivoli Storage Manager for Virtual Environments V6.2.

Notes :

- Either IBM Tivoli Storage Manager or IBM Tivoli Storage Manager Extended Edition are prerequisite products for Tivoli Storage Manager for Virtual Environments and require entitlement on all physical system cores on the vSphere hosts. This entitlement applies only to the vSphere hosts protected by Tivoli Storage Manager for Virtual Environments.
- Tivoli Storage Manager for Virtual Environments is physically installed on a centralized vStorage backup server, which is a secondary or proxy machine that is used to perform the backup using the vStorage application programming interface (API). This secondary or proxy machine can be either a physical machine or a virtual machine. A single vStorage backup server can be used to protect one or more virtual machines that reside on one or more vSphere servers. The customer can use one or more vStorage backup servers.
- Entitlements for Tivoli Storage Manager for Virtual Environments, Tivoli Storage Manager, and Tivoli Storage Manager Extended Edition are not required on the vStorage backup server. Tivoli Storage Manager for Virtual Environment, Tivoli Storage Manager, and Tivoli Storage Manager Extended Edition entitlements are only required for the managed environment, which is the processor cores on the vSphere hosts running the virtual machines being protected.
- Tivoli Storage Manager 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).

Full capacity requirement

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

Quantity of processor core entitlements required	vSphere host 1 (4 way)	vSphere host 2 (8 way)	vStorage backup server (2 way)	Total
Tivoli Storage Manager or Tivoli Storage Manager Extended Edition	4	8	0	12
Tivoli Storage Manager for Virtual Environments	4	8	0	12

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

Quantity of processor core entitlements required	vSphere host 1 (4 way)	vSphere host 2 (8 way)	vStorage backup server 1 (2 way)	vStorage backup server 2 (2 way)	Total
Tivoli Storage Manager or Tivoli Storage Manager Extended Edition	0	8	0	0	8
Tivoli Storage Manager for Virtual Environments	0	8	0	0	8

Pricing example for Tivoli Storage Manager Suite for Unified Recovery

Tivoli Storage Manager Suite for Unified recovery uses a tiered TB 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 TB.

Based on the actual TB 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	$(x * 50 \text{ TB})$
150 TB	$(x * 100 \text{ TB}) + (y * 50 \text{ TB})$
500 TB	$(x * 100 \text{ TB}) + (y * 150 \text{ TB}) + (z * 250 \text{ TB})$
1,200 TB	$(x * 100 \text{ TB}) + (y * 150 \text{ TB}) + (z * 250 \text{ TB}) + (a * 250 \text{ TB}) + (b * 450 \text{ TB})$
1,800 TB	$(x * 100 \text{ TB}) + (y * 150 \text{ TB}) + (z * 250 \text{ TB}) + (a * 250 \text{ TB}) + (b * 500 \text{ TB}) + (c * 550 \text{ TB})$
2,500 TB	$(x * 100 \text{ TB}) + (y * 150 \text{ TB}) + (z * 250 \text{ TB}) + (a * 250 \text{ TB}) + (b * 500 \text{ TB}) + (c * 750 \text{ TB}) + (d * 500 \text{ TB})$

Pricing example for Tivoli Storage Manager Suite for Unified Recovery - Archive Option

Scenario 1

A client has Tivoli Storage Manager Suite for Unified Recovery - 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 Tivoli Storage Manager Suite for Unified Recovery - Archive Option.

Primary disk storage pool	Removable media storage pool	Capacity	Required entitlements
5 TB	4 TB	9 TB	9 TB of Tivoli Storage Manager Suite for Unified Recovery - Archive Option

Scenario 2 (additional capacity)

A client purchased 9 TB of Tivoli Storage Manager Suite for Unified Recovery - 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 Tivoli Storage Manager Suite for Unified Recovery - Archive Option.

Primary disk storage pool	Removable media storage pool	Capacity	Required entitlements
5 TB	6.4 TB	11.4 TB	12 TB of Tivoli Storage Manager Suite for Unified Recovery - Archive Option

Pricing example for Tivoli Storage Manager Suite for Unified Recovery - ProtecTIER Option

If a customer 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 Tivoli Storage Manager primary storage pool, they require PoEs of 20 TB of IBM Tivoli Storage Manager Suite for Unified Recovery ProtecTIER Option, regardless of the amount utilized. So for example, in the case where the IBM ProtecTIER has a total physical capacity available of 20 TB and the customer has 10 TB stored, the licensing requirement is for 20 TB.

Note: Entitlements for Tivoli Storage Manager Suite for Unified Recover - ProtecTIER Option and Tivoli Storage Manager Suite for Unified Recovery standard tiers are not interchangeable and are separately licensed.

Pricing example for Tivoli Storage Manager Suite for Unified Recovery Entry

Tivoli Storage Manager Suite for Unified Recovery Entry supports a combined maximum of 100 TB per enterprise in the designated Tivoli Storage Manager primary storage pool volumes and for all data stored in the designated Tivoli Storage Manager FastBack repository volumes. In addition, a maximum of two Tivoli Storage Manager servers are supported per enterprise.

If a customer has 10 TB in their Tivoli Storage Manager primary storage pool and 10 TB in their Tivoli Storage Manager FastBack repository, the customer requires PoEs of 20 TB of Tivoli Storage Manager Suite for Unified Recovery Entry.

If a customer reaches the maximum of 100 TB under management and foresees the need for more licenses, the customer will require a trade up to Tivoli Storage Manager Suite for Unified Recovery (5724-Z12).

If a customer requires more than two Tivoli Storage Manager servers, the customer will require a trade up to Tivoli Storage Manager Suite for Unified Recovery (5724-Z12).

Ordering information

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Product group: Tivoli Storage Management

Product category: Tivoli Storage Manager

Product Identifier Descriptions	PID number
IBM Tivoli Storage Manager	5608-E01
IBM Tivoli Storage Manager Extended Edition	5608-E02
IBM System Storage Archive Manager	5608-E03

IBM Tivoli Storage Manager for Databases	5608-E04
IBM Tivoli Storage Manager for Mail	5608-E06
IBM Tivoli Storage Manager for Storage Area Networks	5608-E07
IBM Tivoli Storage Manager for Space Management	5608-E12
IBM Tivoli Storage Manager HSM for Windows	5608-E13
IBM Tivoli Storage Manager for Virtual Environments	5725-A44
IBM Tivoli Storage Manager Suite for Unified Recovery	5724-Z12
IBM Tivoli Storage Manager Suite for Unified Recovery Entry	5725-H25
IBM Tivoli Storage Manager Fastback for Workstations	5724-Y96
IBM Tivoli Storage Manager Fastback for Workstations Starter Edition	5724-S64
IBM Tivoli Storage FlashCopy Manager	5724-X94 (for PPA)
IBM Tivoli Storage FlashCopy Manager	5724-ACB (for AAS)

Passport Advantage trade up

You must have previously acquired a license for the following precursor product to be eligible to acquire an equivalent license of the trade-up product.

Precursor product	Trade-up product	Trade-up part number
IBM Tivoli Storage Manager Express® License + SW S&S 12 Mo	IBM Tivoli Storage Manager 10 PVU License + SW S&S 12 Mo	D59V5LL
IBM Tivoli Storage Manager License + SW S&S 12 Mo	IBM Tivoli Storage Manager Extended Edition 10 PVU License + SW S&S 12 Mo	D56FILL
IBM Tivoli Storage Manager for Express License + SW S&S 12 Mo	IBM Tivoli Storage Manager Extended Edition 10 PVU License + SW S&S 12 Mo	D59V6LL
IBM Tivoli Storage Manager for SQL Microsoft License + SW S&S 12 Mo	IBM Tivoli Storage Manager for Databases 10 PVU License + SW S&S 12 Mo	D59V3LL
IBM Tivoli Storage Manager Express for Microsoft Exchange License + SW S&S 12 Mo	IBM Tivoli Storage Manager for Mail 10 PVU License + SW S&S 12 Mo	D59V4LL
IBM Tivoli Storage Manager Suite for Unified Recovery Entry Terabyte (1-100) License + SW S&S 12 Mo	IBM Tivoli Storage Manager Suite for Unified Recovery Terabyte (1-100) License + SW S&S 12 Mo	D0Q3ZLL

Consult your IBM representative if you have any questions.

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Media pack description and entitled Maintenance offerings description	Part number
IBM Tivoli Storage Manager V7.1 Multiplatform, ML Media Pack (5608-E01)	BJ142ML
IBM Tivoli Storage Manager Extended Edition V7.1 Multiplatform, ML Media Pack (5608-E02)	BJ143ML
IBM System Storage Archive Manager V7.1 Multiplatform, ML Media Pack (5608-E03)	BJ144ML
IBM Tivoli Storage Manager for Databases V7.1	BJ145ML

Multiplatform, ML Media Pack (5608-E04)	
IBM Tivoli Storage Manager for Mail V7.1	BJ146ML
Multiplatform, ML Media Pack (5608-E06)	
IBM Tivoli Storage Manager for Storage Area Network V7.1 Multiplatform, ML Media Pack (5608-E07)	BJ147ML
IBM Tivoli Storage Manager for Space Mgmt V7.1	BJ148ML
Multiplatform, ML Media Pack (5608-E12)	
IBM Tivoli Storage Manager for HSM Windows V7.1 Multiplatform, ML Media Pack (5608-E13)	BJ149ML
IBM Tivoli Storage Manager for Virtual Environments V7.1 Multiplatform, ML Media Pack (5725-A44)	BJ14CML
IBM Tivoli Storage Manager Suite for Unified Recovery V7.1 Multiplatform, ML Media Pack (5724-Z12)	BJ14BML
IBM Tivoli Storage Manager Suite for Unified Recovery Entry V7.1 Multiplatform, ML Media Pack (5725-H25)	BJ14DML
IBM Tivoli Storage Manager Fastback for workstations V7.1 Multiplatform, ML Media (5724-Y96)	BJ14AML
IBM Tivoli Storage Manager Fastback for workstations Starter Edition V7.1 Multiplatform, ML Media (5724-S64)	BJ14SML
IBM Tivoli Storage FlashCopy Manager V4.1 Multiplatform, ML Media Pack (5724-X94)	BJ13YML

Current licensees

Current licensees, with support in effect, will receive instructions on how to order this update.

New licensees

Orders for new licenses will be accepted now.

Shipment will begin on the planned availability date.

Basic license

Ordering information for Passport Advantage

Passport Advantage allows you to have a common anniversary date for Software Subscription and Support (SW S&S) renewals, which can simplify management and budgeting for eligible new versions and releases (and related technical support) for your covered products. The anniversary date, established at the start of your Passport Advantage Agreement, will remain unchanged while your Passport Advantage Agreement remains in effect. New software purchases will initially include twelve full months of Software Subscription and Support (also referred to as Software Maintenance). Software Subscription and Support in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all Software Subscription and Support (Software Maintenance) will renew at the common anniversary date for twelve full months of Software Subscription and Support (Software Maintenance).

Refer to the IBM International Passport Advantage Agreement and to the *IBM Software Support Handbook* for specific terms relating to, and a more complete description of, technical support provided through Software Subscription and Support (Software Maintenance).

Tivoli Storage Manager

The quantity to be specified for the Passport Advantage part numbers in the following tables is per 10 Processor Value Units, per client device, and per terabyte. To order for Passport Advantage, specify the desired part number and quantity.

Description	Part number
IBM Tivoli Storage Manager (5608-E01)	
10 Processor Value Units:	
License and SW S&S 12 Months (Refer to Note 1)	D56FULL
Annual SW S&S Renewal	E029KLL
SW S&S Reinstatement 12 Months	D56FWLL
Lnx on z - License and SW S&S 12 Months	D56Q5LL
Lnx on z - Annual SW S&S Renewal	E02B7LL
Lnx on z - SW S&S Reinstatement 12 Months	D56Q6LL
Client devices:	
License and SW S&S 12 Months	D5158LL
Annual SW S&S Renewal	E00AJLL
SW S&S Reinstatement 12 Months	D515ALL
IBM Tivoli Storage Manager Extended Edition (5608-E02)	
10 Processor Value Units:	
License and SW S&S 12 Months (Refer to Note 1)	D56FELL
Annual SW S&S Renewal	E029ELL
SW S&S Reinstatement 12 Months	D56FFLL
Lnx on z - License and SW S&S 12 Months	D56FJLL
Lnx on z - Annual SW S&S Renewal	E029GLL
Lnx on z - SW S&S Reinstatement 12 Months	D56FKLL
Tradeup from Tivoli Storage Manager	
License and SW S&S 12 Months	D56FILL
Client devices:	
License and SW S&S 12 Months	D51MKLL
Annual SW S&S Renewal	E00IALL
SW S&S Reinstatement 12 Months	D51MMLL
Note 1: Client licenses are interchangeable between IBM Tivoli Storage Manager and IBM Tivoli Storage Manager Extended Edition.	
IBM System Storage Archive Manager (5608-E03)	
Per Terabyte (1-12)	
License and SW S&S 12 Months	D61H2LL
Annual SW S&S Renewal	E040YLL
SW S&S Reinstatement 12 Months	D61H3LL
Per Terabyte (13-32)	
License and SW S&S 12 Months	D61G7LL
Annual SW S&S Renewal	E040ILL
SW S&S Reinstatement 12 Months	D61G8LL
Per Terabyte (33-64)	
License and SW S&S 12 Months	D61GHLL
Annual SW S&S Renewal	E040NLL
SW S&S Reinstatement 12 Months	D61GILL
Per Terabyte (65-100)	
License and SW S&S 12 Months	D61GJLL
Annual SW S&S Renewal	E040PLL
SW S&S Reinstatement 12 Months	D61GKLL
Per Terabyte (101-250)	
License and SW S&S 12 Months	D61GLLL
Annual SW S&S Renewal	E040QLL
SW S&S Reinstatement 12 Months	D61GMLL
Per Terabyte (251+)	
License and SW S&S 12 Months	D61GNLL
Annual SW S&S Renewal	E040RLL
SW S&S Reinstatement 12 Months	D61GPLL
IBM Tivoli Storage Manager for Databases (5608-E04)	
10 Processor Value Units:	
License and SW S&S 12 Months	D56D9LL
Annual SW S&S Renewal	E028WLL
SW S&S Reinstatement 12 Months	D56DALL
IBM Tivoli Storage Manager for Databases for zEnterprise BladeCenter® Extension and Linux on System z® 10	

Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E087QLL
IBM Tivoli Storage Manager for Databases for zEnterprise BladeCenter Extension and Linux on System z 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D0BTCLL
IBM Tivoli Storage Manager for Databases for zEnterprise BladeCenter Extension and Linux on System z 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D0BTDLL
IBM Tivoli Storage Manager for Mail (5608-E06)	
10 Processor Value Units:	
License and SW S&S 12 Months	D56Q3LL
Annual SW S&S Renewal	E02B6LL
SW S&S Reinstatement 12 Months	D56Q4LL
Lnx on z - License and SW S&S 12 Months	D56Q1LL
Lnx on z - Annual SW S&S Renewal	E02B5LL
Lnx on z - SW S&S Reinstatement 12 Months	D56Q2LL
IBM Tivoli Storage Manager for Storage Area Network (5608-E07)	
10 Processor Value Units:	
License and SW S&S 12 Months	D56FPLL
Annual SW S&S Renewal	E029ILL
SW S&S Reinstatement 12 Months	D56FQLL
Client devices:	
License and SW S&S 12 Months	D51MYLL
Annual SW S&S Renewal	E00IELL
SW S&S Reinstatement 12 Months	D51N0LL
IBM Tivoli Storage Manager Storage Area Networks for zEnterprise® BladeCenter Extension and Linux on System z 10 Processor Value Units (PVUs) Annual SW Subscription & Support Renewal	E07XCLL
IBM Tivoli Storage Manager Storage Area Networks for zEnterprise BladeCenter Extension and Linux on System z 10 Processor Value Units (PVUs) License + SW Subscription & Support 12 Months	D0BE7LL
IBM Tivoli Storage Manager Storage Area Networks for zEnterprise BladeCenter Extension and Linux on System z 10 Processor Value Units (PVUs) SW Subscription & Support Reinstatement 12 Months	D0BE8LL
IBM Tivoli Storage Manager for Space Management (5608-E12)	
10 Processor Value Units:	
License and SW S&S 12 Months	D56FLLL
Annual SW S&S Renewal	E029HLL
SW S&S Reinstatement 12 Months	D56FMLL
IBM Tivoli Storage Manager HSM for windows (5608-E13)	
Per terabytes:	
License and SW S&S 12 Months	D55H5LL
Annual SW S&S Renewal	E01ZBLL
SW S&S Reinstatement 12 Months	D55H6LL
IBM Tivoli Storage Manager for Virtual Environments (5725-A44)	
10 Processor Value Units:	
License and SW S&S 12 Months	D0I2SLL
Annual SW S&S Renewal	E0BI0LL
SW S&S Reinstatement 12 Months	D0I2TLL
IBM Tivoli Storage Manager Suite for Unified Recovery (5724-Z12)	
Per Terabyte (1-100)	
License and SW S&S 12 Months	D0BM1LL
Annual SW S&S Renewal	E084XLL
SW S&S Reinstatement 12 Months	D0BM2LL
Per Terabyte (101-250)	
License and SW S&S 12 Months	D0BM9LL
Annual SW S&S Renewal	E0851LL
SW S&S Reinstatement 12 Months	D0BMALL
Per Terabyte (251-500)	
License and SW S&S 12 Months	D0BMBLL
Annual SW S&S Renewal	E0852LL
SW S&S Reinstatement 12 Months	D0BMCLL

Per Terabyte (501-750)	
License and SW S&S 12 Months	D0BMJLL
Annual SW S&S Renewal	E0856LL
SW S&S Reinstatement 12 Months	D0BMLLL
Per Terabyte (751-1,250)	
License and SW S&S 12 Months	D0BMKLL
Annual SW S&S Renewal	E0857LL
SW S&S Reinstatement 12 Months	D0BMMLL
Per Terabyte (1,251-2,000)	
License and SW S&S 12 Months	D0BMULL
Annual SW S&S Renewal	E085BLL
SW S&S Reinstatement 12 Months	D0BMWLL
Per Terabyte (2,001+)	
License and SW S&S 12 Months	D0BMVLL
Annual SW S&S Renewal	E085CLL
SW S&S Reinstatement 12 Months	D0BMXLL
Archive Option Per Terabyte	
License and SW S&S 12 Months	D0PCMLL
Annual SW S&S Renewal	E0DMPLL
SW S&S Reinstatement 12 Months	D0PCNLL
Archive Option Per Terabyte for Linux on z	
License and SW S&S 12 Months	D11CNLL
Annual SW S&S Renewal	E0IBSLL
SW S&S Reinstatement 12 Months	D11CPLL
ProtectTIER Option Per Terabyte	
License and SW S&S 12 Months	D10XWLL
Annual SW S&S Renewal	E0I67LL
SW S&S Reinstatement 12 Months	D10XXLL
IBM Tivoli Storage Manager Suite for Unified Recover for Linux System z Terabyte (101-250) SW Subscription & Support Reinstatement 12 Months	D0QD0LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (1-100) Annual SW Subscription & Support Renewal 12 Months	E0E11LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (1-100) License + SW Subscription & Support 12 Months	D0QCXLL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (1-100) SW Subscription & Support Reinstatement 12 Months	D0QCYLL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (101-250) Annual SW Subscription & Support Renewal 12 Months	E0E12LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (101-250) License + SW Subscription & Support 12 Months	D0QCZLL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (1251-2000) Annual SW Subscription & Support Renewal 12 Months	E0E16LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (1251-2000) License + SW Subscription & Support 12 Months	D0QD7LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (1251-2000) SW Subscription & Support Reinstatement 12 Months	D0QD8LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (2001+) Annual SW	

Subscription & Support Renewal 12 Months	E0E17LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (2001+) License + SW Subscription & Support 12 Months	D0QD9LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (2001+) SW Subscription & Support Reinstatement 12 Months	D0QDALL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (251-500) Annual SW Subscription & Support Renewal 12 Months	E0E13LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (251-500) License + SW Subscription & Support 12 Months	D0QD1LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (251-500) SW Subscription & Support Reinstatement 12 Months	D0QD2LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (501-750) Annual SW Subscription & Support Renewal 12 Months	E0E14LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (501-750) License + SW Subscription & Support 12 Months	D0QD3LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (501-750) SW Subscription & Support Reinstatement 12 Months	D0QD4LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (751-1250) Annual SW Subscription & Support Renewal 12 Months	E0E15LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (751-1250) License + SW Subscription & Support 12 Months	D0QD5LL
IBM Tivoli Storage Manager Suite for Unified Recovery for Linux System z Terabyte (751-1250) SW Subscription & Support Reinstatement 12 Months	D0QD6LL
IBM Tivoli Storage Manager Suite for Unified Recovery Entry (5725-H25)	
Per Terabyte (1-100)	
License and SW S&S 12 Months	D0Q3XLL
Annual SW S&S Renewal	E0DYELL
SW S&S Reinstatement 12 Months	D0Q3YLL
IBM Tivoli Storage Manager Fastback for workstations (5724-Y96)	
Per 25 client devices	
License and SW S&S 12 Months	D0BYWLL
SW S&S Annual Renewal	E08A8LL
SW S&S Reinstatement 12 Months	D0BYXLL
IBM Tivoli Storage Manager Fastback for workstations Starter Edition (5724-S64)	
(previously known as IBM Tivoli Continuous Data Protection for Files Starter Edition)	
Per Single Client	
License and SW S&S 12 Months	D613ALL
SW S&S Annual Renewal	E03U5LL
SW S&S Reinstatement 12 Months	D613BLL

To order a media pack for Passport Advantage, specify the part number in the desired quantity from the following table:

Media pack description and entitled Maintenance offerings description	Part number
IBM Tivoli Storage Manager V7.1 Multiplatform, ML Media Pack (5608-E01)	BJ142ML
IBM Tivoli Storage Manager Extended Edition	BJ143ML

V7.1 Multiplatform, ML Media Pack (5608-E02)	
IBM System Storage Archive Manager V7.1 Multiplatform, ML Media Pack (5608-E03)	BJ144ML
IBM Tivoli Storage Manager for Databases V7.1 Multiplatform, ML Media Pack (5608-E04)	BJ145ML
IBM Tivoli Storage Manager for Mail V7.1 Multiplatform, ML Media Pack (5608-E06)	BJ146ML
IBM Tivoli Storage Manager for Storage Area Network V7.1 Multiplatform, ML Media Pack (5608-E07)	BJ147ML
IBM Tivoli Storage Manager for Space Mgmt V7.1 Multiplatform, ML Media Pack (5608-E12)	BJ148ML
IBM Tivoli Storage Manager for HSM Windows V7.1 Multiplatform, ML Media Pack (5608-E13)	BJ149ML
IBM Tivoli Storage Manager for Virtual Environments V7.1 Multiplatform, ML Media Pack (5725-A44)	BJ14CML
IBM Tivoli Storage Manager Suite for Unified Recovery V7.1 Multiplatform, ML Media Pack (5724-Z12)	BJ14BML
IBM Tivoli Storage Manager Suite for Unified Recovery Entry V7.1 Multiplatform, ML Media Pack (5725-H25)	BJ14DML
IBM Tivoli Storage Manager Fastback for Workstations V7.1 Multiplatform, ML Media (5724-Y96)	BJ14AML
IBM Tivoli Storage Manager Fastback for Workstations Starter Edition V7.1 Multiplatform, ML Media (5724-S64)	BJ14SML

The products listed in the above tables are also available via web download from Passport Advantage.

Note 2: These DVDs are also included in the Tivoli Storage Manager and Tivoli Storage Manager Extended Edition packages.

FlashCopy Manager

The quantity to be specified for the Passport Advantage part numbers in the following table is per terabyte. To order for Passport Advantage, specify the desired part number and quantity.

Description	Part number
IBM Tivoli Storage FlashCopy Manager (5724-X94)	
Per Terabyte (1-12)	
License and SW S&S 12 Months	D0B5GLL
Annual SW S&S Renewal	E07TXLL
SW S&S Reinstatement 12 Months	D0B83LL
Per Terabyte (13-32)	
License and SW S&S 12 Months	D0B6YLL
Annual SW S&S Renewal	E07UBLL
SW S&S Reinstatement 12 Months	D0B84LL
Per Terabyte (33-64)	
License and SW S&S 12 Months	D0B85LL
Annual SW S&S Renewal	E07UTLL
SW S&S Reinstatement 12 Months	D0B86LL
Per Terabyte (65-100)	
License and SW S&S 12 Months	D0B87LL
Annual SW S&S Renewal	E07UULL
SW S&S Reinstatement 12 Months	D0B88LL
Per Terabyte (101-250)	
License and SW S&S 12 Months	D0B8CLL
Annual SW S&S Renewal	E07UXLL
SW S&S Reinstatement 12 Months	D0B8DLL
Per Terabyte (251+)	

License and SW S&S 12 Months	D0B8ELL
Annual SW S&S Renewal	E07UYLL
SW S&S Reinstatement 12 Months	D0B8FLL

To order a media pack for Passport Advantage, specify the part number in the desired quantity from the following table:

Description	Part number
IBM Tivoli Storage FlashCopy Manager V4.1 Multiplatform, ML Media Pack	BJ13YML

Ordering information for non-Passport Advantage (AAS ordering systems)

Order handling

IBM Tivoli Storage FlashCopy Manager V4.1 (5608-ACB) may be ordered through existing channels using the existing configurator and ordering tools. However, the fulfillment processes have been modified to improve customer records management associated with Software Subscription and Support (SW S&S), often referred to as Software Maintenance. SW S&S will be entitled through Passport Advantage.

5608-ACB, when selected during configuration process with each hardware system, will be enabled for electronic download for the system unit for which the product was ordered. Optionally, software and license only configurations can be created for 5608-ACB based on existing supported hardware system units in your business environment. 5608-ACB is available exclusively via electronic download.

After receipt of an order, you will be required to register for, and accept, Passport Advantage or Passport Advantage Express terms and conditions. Upon registration, you will be provided with a website for the electronic download.

Passport Advantage allows greater flexibility to help you manage software licenses and Subscription and Support renewals. You can now have a common anniversary date for Subscription and Support renewals. The anniversary date, established at the order ship date for the initial product acquisition, will remain unchanged while your Passport Advantage or Passport Advantage Express agreement remains in effect.

To order a basic license, specify the program number and the one-time charge feature number in the quantity desired (maximum quantity of 250).

The program is available via electronic download only. Physical media can be ordered via Passport Advantage once entitled.

The quantity to be specified for the feature numbers in the following tables is per terabyte.

Product number	Product name	Feature number
5608-ACB	IBM Tivoli Storage FlashCopy Manager V4.1	
	Per Terabyte (1-12) with 1 Year SW S&S	0001
	Per Terabyte (13-32) with 1 Year SW S&S	0002
	Per Terabyte (33-64) with 1 Year SW S&S	0003
	Per Terabyte (65-100) with 1 Year SW S&S	0004
	Per Terabyte (101-250) with 1 Year SW S&S	0005
	Per Terabyte (251+) with 1 Year SW S&S	0006
	Per 250 Terabyte (251+) with 1 Year SW S&S	0007

Rapid Application software bundle

To order a Rapid Application Storage Manager or a Rapid Application Backup bundle for program numbers 5608-ACB, 5608-FCY, 5608-R16, 5608-R13, 5608-R17, and 5608-R18, specify the desired no charge feature number below, where feature number 6398 applies only to RASM and feature number 6399 applies only to RAB.

Feature number	Description
6398	Unlimited users entitlement
6399	Unlimited external users entitlement

Software Subscription and Support (SW S&S)

This software license includes SW S&S, also referred to as Software Maintenance, for a period of 12 months from the date of acquisition. Extending coverage from two to five years from date of acquisition may be elected.

To order, specify the SW S&S program number and the desired registration feature number. With the exception of SW S&S 1 Year No Charge Registration, a one-time charge applies.

IBM Tivoli Storage FlashCopy Manager SW S&S Registration

SW S&S PID 1 Year: 5608-FCY

Description	Feature number
Per Terabyte (1-12)	
-- SW S&S 1 Year No Charge Registration	0001
Per Terabyte (13-32)	
-- SW S&S 1 Year No Charge Registration	0002
Per Terabyte (33-64)	
-- SW S&S 1 Year No Charge Registration	0003
Per Terabyte (65-100)	
-- SW S&S 1 Year No Charge Registration	0004
Per Terabyte (101-250)	
-- SW S&S 1 Year No Charge Registration	0005
Per Terabyte (251+)	
-- SW S&S 1 Year No Charge Registration	0006
Per 250 Terabyte (251+)	
-- SW S&S 1 Year No Charge Registration	0007

SW S&S PID 2 Year: 5608-R16

Description	Feature number
Per Terabyte (1-12)	
-- SW S&S 2 Year Registration	0001
Per Terabyte (13-32)	
-- SW S&S 2 Year Registration	0002
Per Terabyte (33-64)	
-- SW S&S 2 Year Registration	0003
Per Terabyte (65-100)	
-- SW S&S 2 Year Registration	0004
Per Terabyte (101-250)	
-- SW S&S 2 Year Registration	0005
Per Terabyte (251+)	
-- SW S&S 2 Year Registration	0006
Per 250 Terabyte (251+)	
-- SW S&S 2 Year Registration	0007

SW S&S PID 3 Year: 5608-R13

Description	Feature number
Per Terabyte (1-12)	
-- SW S&S 3 Year Registration	0001
Per Terabyte (13-32)	
-- SW S&S 3 Year Registration	0002
Per Terabyte (33-64)	
-- SW S&S 3 Year Registration	0003
Per Terabyte (65-100)	
-- SW S&S 3 Year Registration	0004

Per Terabyte (101-250)	
-- SW S&S 3 Year Registration	0005
Per Terabyte (251+)	
-- SW S&S 3 Year Registration	0006
Per 250 Terabyte (251+)	
-- SW S&S 3 Year Registration	0007

SW S&S PID 4 Year: 5608-R17

Description	Feature number
Per Terabyte (1-12)	
-- SW S&S 4 Year Registration	0001
Per Terabyte (13-32)	
-- SW S&S 4 Year Registration	0002
Per Terabyte (33-64)	
-- SW S&S 4 Year Registration	0003
Per Terabyte (65-100)	
-- SW S&S 4 Year Registration	0004
Per Terabyte (101-250)	
-- SW S&S 4 Year Registration	0005
Per Terabyte (251+)	
-- SW S&S 4 Year Registration	0006
Per 250 Terabyte (251+)	
-- SW S&S 4 Year Registration	0007

SW S&S PID 5 Year: 5608-R18

Description	Feature number
Per Terabyte (1-12)	
-- SW S&S 5 Year Registration	0001
Per Terabyte (13-32)	
-- SW S&S 5 Year Registration	0002
Per Terabyte (33-64)	
-- SW S&S 5 Year Registration	0003
Per Terabyte (65-100)	
-- SW S&S 5 Year Registration	0004
Per Terabyte (101-250)	
-- SW S&S 5 Year Registration	0005
Per Terabyte (251+)	
-- SW S&S 5 Year Registration	0006
Per 250 Terabyte (251+)	
-- SW S&S 5 Year Registration	0007

Subscription and Support

Subscription and Support must be ordered to receive voice technical support via telephone during normal business hours, and future releases and versions, at no additional charge. The capacity of Subscription and Support (for example, terabytes) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program product number and the appropriate license or charge option.

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

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

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

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.

This product is only available via Passport Advantage. It is not available as shrinkwrap.

Licensing

IBM International Program License Agreement including the License Information document and PoE govern your use of the program. PoEs are required for all authorized use. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

Agreement for Acquisition of Software Maintenance

The IBM Agreement for Acquisition of Software Maintenance (Z125-6011) applies for Subscription and Support (also referred to as Software Maintenance) and does not require customer signatures.

These programs are licensed under the IBM Program License Agreement (IPLA) and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of the program. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (also referred to as Software Maintenance) can be extended by the purchase of a renewal option, if available. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours), as well as access to updates, releases, and versions of the program as long as support is in effect.

License Information form number

- 5608-E01 - IBM Tivoli Storage Manager: L-BEBY-9ALS3J
- 5608-E02 - IBM Tivoli Storage Manager Extended Edition: L-BEBY-9ALTDQ
- 5608-E03 - IBM System Storage Archive Manager: L-BEBY-9ALTME
- 5608-E04 - IBM Tivoli Storage Manager for Databases: L-BEBY-9ALU43
- 5608-E06 - IBM Tivoli Storage Manager for Mail: L-BEBY-9AMP3C
- 5608-E07 - IBM Tivoli Storage Manager for Storage Area Networks: L-BEBY-9ALTTK
- 5608-E12 - IBM Tivoli Storage Manager for Space Management: L-BEBY-9AMP8Z
- 5608-E13 - IBM Tivoli Storage Manager HSM for Windows : L-BEBY-9AMPCZ
- 5725-A44 - IBM Tivoli Storage Manager for Virtual Environments: L-BEBY-9AMQUG
- 5725-H25 - IBM Tivoli Storage Manager Suite for Unified Recovery Entry: L-BEBY-9AMRPA
- 5724-Z12 - IBM Tivoli Storage Manager Suite for Unified Recovery: L-BEBY-9AMRZJ
- 5724-Z12 - IBM Tivoli Storage Manager Suite for Unified Recovery - Archive Option: L-BEBY-9AMS7M
- 5724-Z12 - IBM Tivoli Storage Manager Suite for Unified Recovery - ProtecTIER Option: L-BEBY-9AMSBE

- 5724-Y96 - IBM Tivoli Storage Manager FastBack for Workstations: L-BEBY-9AMRJK
- 5724-S64 - IBM Tivoli Storage Manager FastBack for Workstations Starter Edition: L-BEBY-9AMRJK
- 5724-X94 - IBM Tivoli Storage FlashCopy Manager (for Passport Advantage): L-BEBY-9AMQZ7
- 5608-ACB - IBM Tivoli Storage FlashCopy Manager (for AAS): L-BEBY-9AMQZ7

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

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

Limited warranty applies

Yes

Limited warranty

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

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

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

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

Program technical support

Technical support of a program product version or release will be available for a minimum of five years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect. This technical support allows you to obtain assistance (via telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, via announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

Money-back guarantee

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

For clarification, note that (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Other terms**Volume orders (IVO)**

No

IBM International Passport Advantage Agreement**Passport Advantage applies**

Yes, and through the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

Usage restriction

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

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

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

Software Subscription and Support applies

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

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

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

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

Software Subscription and Support does not include assistance for the design and development of applications, your use of programs in other than their specified operating environment, or failures caused by products for which IBM is not responsible under this agreement.

For additional information about the Passport Advantage Agreement, visit the Passport Advantage website at

<http://www.ibm.com/software/passportadvantage>

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

Variable charges apply

No

Educational allowance available

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

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered destroyed or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

IBM Electronic Services

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company's strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX V5.3, AIX V6.1, and AIX V7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type `smitty esa_main`, and select Configure Electronic Service Agent. In addition, ESA now includes a powerful Web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

<http://www.ibm.com/support/electronic>

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

Increased uptime: The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the symptoms, diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM. The customer's business applications or business data is never transmitted to IBM.

More accurate reporting: Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service request, customers are not required to find and send system information, decreasing the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data is run through a data knowledge management system and knowledge articles are appended to the problem record.

Customized support: Using the IBM ID entered during activation, customers can view system and support information in the My Systems and Premium Search sections of the Electronic Support website at

<http://www.ibm.com/support/electronic>

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with the customer's IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

<http://www.ibm.com/support/electronic>

Prices

Information on charges is available at website

<http://www.ibm.com/support>

In the Electronic tools category, select the option for Purchase/upgrade tools.

Passport Advantage

For Passport Advantage and charges, contact your IBM representative or your authorized IBM Business Partner. Additional information is also available at

<http://www.ibm.com/software/passportadvantage>

Business Partner information

If you are an IBM Business Partner -- Distributor for Workstation Software acquiring products from IBM, you may link to Passport Advantage Online for resellers where you can obtain Business Partner pricing information. An IBM ID and password are required.

<https://www.ibm.com/software/howtobuy/passportadvantage/paoreseller>

Authorization to resell IBM software products is achieved at the Reseller Authorization group level. You must be authorized in the Tivoli Storage Group to sell this product. To register an opportunity for this product in the Global Partner Portal, you may use Product Family - Software: Tivoli Storage. For information on how to become an Authorized Business Partner in IBM Software Value Plus, visit website

<https://www-304.ibm.com/partnerworld/wps/servlet/ContentHandler/svp>

Order now

To order, contact the Americas Call Centers or your local IBM representative, or your IBM Business Partner.

To identify your local IBM representative or IBM Business Partner, call 800-IBM-4YOU (426-4968).

Phone: 800-IBM-CALL (426-2255)
Fax: 800-2IBM-FAX (242-6329)
For IBM representative: callserv@ca.ibm.com
For IBM Business Partner: pwcs@us.ibm.com
Mail: IBM Teleweb Customer Support
ibm.com® Sales Execution Center, Americas North
3500 Steeles Ave. East, Tower 3/4
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The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

Note: Shipments will begin after the planned availability date.

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For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

<http://www.ibm.com/planetwide/us/>

Corrections

(Corrected on September 9, 2014)

Updated the Ordering information section.