



IBM Tivoli Storage Manager V6.4.1 products deliver backup enhancements

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At a glance

IBM® Tivoli® Storage Manager V6.4.1, Tivoli Storage Manager Extended Edition V6.4.1, and IBM System Storage® Archive Manager V6.4.1 now contain:

- Tivoli Storage Manager Operations Center V6.4.1, a new graphical user interface (GUI), available as a separately installable component
 - A consolidated backup and recovery dashboard
 - Monitoring from anywhere, with any browser-enabled device
 - Detailed view of the protected environments
 - A time-based view of client backups
 - Highlighting of essential problem information
 - A summary status for key assets along with a detailed alert list
 - A common look and feel with IBM storage products providing unified user interface experience
- Tivoli Monitoring for Tivoli Storage Manager
 - Improved installation
 - Enhanced monitoring and reporting through IBM Cognos®
 - Predefined reports related to client status, storage summary, storage trends, and virtual environment reporting

IBM Tivoli Storage Manager for Enterprise Resource Planning V6.4.1 integrates with the Backint for SAP HANA API for simplified protection of SAP HANA in-memory databases.

For ordering, contact Your IBM representative or an IBM Business Partner.
For more information contact the Americas Call Centers at
800-IBM-CALL (426-2255).

Reference: YE001

Overview

Backup is one of the oldest IT processes. IT organizations spend too much time fixing failed backups and maintaining their backup infrastructures. Administration takes more time as backup systems grow. The ability to successfully manage information and data has become an imperative. The IBM Tivoli Storage Manager family of products (referred to as Tivoli Storage Manager) helps businesses successfully gain better control and efficiently manage their data in increasingly

complex IT environments with significant enhancements in multiple facets of data protection.

From its inception, Tivoli Storage Manager has been a highly scalable and feature rich data protection solution. With the release of a new graphical user interface, IBM Tivoli Storage Manager Operations Center, Tivoli Storage Manager V6.4.1 helps manage more backups with less complexity and better results.

IBM Tivoli Storage Manager Operations Center V6.4.1, a new component of the Tivoli Storage Manager product, is available free of charge to all Tivoli Storage Manager customers. It simplifies administrative functions by dramatically enhancing the visibility of the entire Tivoli Storage Manager environment by providing the ability to quickly assess status via an integrated dashboard view and to drill down on individual elements to troubleshoot problems more effectively. It also includes an integrated command line interface (CLI) function that provides a bridge for Tivoli Storage Manager users to query the Tivoli Storage Manager Server and take corrective actions from within the new user interface using familiar commands.

Highlights of Tivoli Storage Manager Operations Center V6.4.1:

- Has a consolidated backup and recovery dashboard that provides an at-a-glance visibility to the entire backup environment
- Can monitor from anywhere, with any browser-enabled device and includes iPad support
- Is able to drill down for detailed view of the protected environments
- Has greatly improved usability and reduces complexity of managing Tivoli Storage Manager
- Contains centralized view of backup problems across multiple Tivoli Storage Manager servers
- Includes time-based view of client backups
- Includes essential problem information that is highlighted, eliminating diagnostic steps
- Includes summary status for key assets along with a detailed alert list so corrective actions are taken
- Delivers integrated CLI that gives Tivoli Storage Manager experts the same advanced dashboard view as other administrators
- Has a common look and feel with IBM storage products providing a unified user interface experience

Tivoli Monitoring for Tivoli Storage Manager improves installation and adds new reports on virtual environments, client status, storage summary, and trends.

IBM Tivoli Storage Manager for Enterprise Resource Planning V6.4.1 simplifies and improves the performance of backup and restore operations for SAP HANA in-memory relational databases by eliminating an interim copy to disk. The former two-step process for these operations is replaced by a one-step process, leveraging the new Backint for SAP HANA Application Programming Interface (API) available in the SAP HANA Support Package Stack 05 (SPS 05). By leveraging the new Backint interface, Tivoli Storage Manager for Enterprise Resource Planning can now support any SAP HANA appliance that meets the requirements defined by the SAP HANA level in use with, and supported by, Tivoli Storage Manager for Enterprise Resource Planning.

These new enhancements are also available in the following product bundles: IBM Tivoli Storage Manager Suite for Unified Recovery V6.4.1 and IBM Tivoli Storage Manager Suite for Unified Recovery Entry V6.4.1.

Key prerequisites

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

Planned availability date

- June 14, 2013: Electronic general availability (eGA)
- July 05, 2013: Physical general availability (pGA)

Description

IBM Tivoli Storage Manager V6.4.1 family of products helps businesses manage and control their business data by dramatically enhancing the visibility of the entire Tivoli Storage Manager environment, providing the ability to quickly assess status via an integrated dashboard view, and to drill down on individual elements to troubleshoot problems more effectively. This advanced, highly scalable product can help increase the efficiency of your IT operations and cut costs related to storage management by providing a wide range of data protection, recovery management, movement, retention, reporting, and monitoring capabilities using policy-based automation.

You are entitled to IBM Tivoli Storage Manager Operations Center V6.4.1 free of charge if you have one of the following products installed:

- IBM Tivoli Storage Manager V6.4.1 (5608-E01)
- IBM Tivoli Storage Manager Extended Edition V6.4.1 (5608-E02)
- IBM System Storage Archive Manager V6.4.1 (5608-E03)
- IBM Tivoli Storage Manager Suite for Unified Recovery V6.4.1 (5724-Z12)
- IBM Tivoli Storage Manager Suite for Unified Recovery Entry V6.4.1 (5725-H25)

Note: Tivoli Storage Manager Operations Center V6.4.1 graphical user interface components require Tivoli Storage Manager server V6.3.4, or later.

Tivoli Monitoring for Tivoli Storage Manager adds the following reports about virtual environments, client status, storage summary, and trends:

- Client Storage Summary and Details
- Client Storage Usage Trends
- Server Database Growth Trends
- Server Storage Growth Trends
- Client Backup Currency
- Client Backup Status
- Client Schedule Status
- Current Client Occupancy Summary
- Server Schedule Status
- VE Activity Status
- VE Current Occupancy Summary
- VE Backup Type Summary

IBM Tivoli Storage Manager for Enterprise Resource Planning V6.4.1 new features include:

- Support for all SAP HANA appliances that meet the requirements defined by HANA Support Package Stack (SPS) 05
- Support for the Backint for SAP HANA API that eliminates the intermediate copy to disk for backup and restore actions

Also included are the following familiar features applied to new SAP HANA SPS 05 support:

- Management of all files per backup as a logical entity

- Running of multiple parallel sessions to Tivoli Storage Manager
- Exploitation of multiple network paths

Accessibility by people with disabilities

A U.S. 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

Statement of direction

IBM Tivoli Storage Manager Operations Center, a next-generation graphical user interface (GUI) included with IBM Tivoli Storage Manager, provides advanced end-to-end visibility of the entire data protection environment. IBM is building upon the current capabilities in the Tivoli Storage Manager Operations Center with enhancements that extend visibility, control, and automation to dramatically simplify daily management and operational tasks for any data protection user.

IBM's intention is to deliver an intuitive user experience with built-in analytics that appeals to both experienced backup administrators and novice users in any size environment.

IBM's statements regarding its plans, directions, and intent are subject to change or withdrawal without notice at IBM's sole discretion. Information regarding potential future products is intended to outline our general product direction and it should not be relied on in making a purchasing decision. The information mentioned regarding potential future products is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. Information about potential future products may not be incorporated into any contract. The development, release, and timing of any future features or functionality described for our products remains at our sole discretion.

Reference information

For more information about support for IBM Tivoli Storage Manager V6.4 products, refer to Software Announcement [212-382](#), dated October 03, 2012 .

Program number

Program number	VRM	Program name
5608-E01	6.4.1	IBM Tivoli Storage Manager
5608-E02	6.4.1	IBM Tivoli Storage Manager Extended Edition
5608-E03	6.4.1	IBM System Storage Archive Manager
5608-E05	6.4.1	IBM Tivoli Storage Manager for Enterprise Resource Planning
5724-Z12	6.4.1	IBM Tivoli Storage Manager Suite for Unified Recovery
5725-H25	6.4.1	IBM Tivoli Storage Manager Suite for Unified Recovery Entry

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

The publications listed below have been updated. They are available in English and can be downloaded from the following website on the general availability unless otherwise stated. Translated copies in selected languages will be available for download within 60 days of the general availability date unless otherwise stated.

For Publications go to the following website

<http://pic.dhe.ibm.com/infocenter/tsminfo/v6r4/index.jsp>

Order number	Title of publications that were updated to support IBM Tivoli Storage Manager V6.4.1 products
GC27-4017-02	IBM Tivoli Storage Manager Upgrade and Migration Guide for V5 Servers
GC23-9781-05	IBM Tivoli Storage Manager for AIX® Installation Guide
GC23-9782-05	IBM Tivoli Storage Manager for HP-UX Installation Guide
GC23-9783-05	IBM Tivoli Storage Manager for Linux™ Installation Guide
GC23-9784-05	IBM Tivoli Storage Manager for Oracle Solaris Installation Guide
GC23-9785-05	IBM Tivoli Storage Manager for Windows™ Installation Guide
SC23-9769-05	IBM Tivoli Storage Manager for AIX Administrator's Guide
SC23-9770-05	IBM Tivoli Storage Manager for HP-UX Administrator's Guide
SC23-9771-05	IBM Tivoli Storage Manager for Linux Administrator's Guide
SC23-9772-05	IBM Tivoli Storage Manager for Oracle Solaris Administrator's Guide
SC23-9773-05	IBM Tivoli Storage Manager for Windows Administrator's Guide
SC23-9775-05	IBM Tivoli Storage Manager for AIX Administrator's Reference
SC23-9776-05	IBM Tivoli Storage Manager for HP-UX Administrator's Reference
SC23-9777-05	IBM Tivoli Storage Manager for Linux Administrator's Reference
SC23-9778-05	IBM Tivoli Storage Manager for Oracle Solaris Administrator's Reference
SC23-9779-05	IBM Tivoli Storage Manager for Windows Administrator's Reference
SC27-2877-04	IBM Tivoli Storage Manager Server Messages and Error Codes
GC23-9788-06	IBM Tivoli Storage Manager Optimizing Performance

The IBM Publications Center

<http://www.ibm.com/shop/publications/order>

The IBM Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge, where IBM does business.

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 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 V6.4 products are available at the website listed with each product below.

IBM Tivoli Storage Manager V6.4 (refer to Note 1)

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

IBM Tivoli Storage Manager Extended Edition V6.4 (refer to Note 1)

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

IBM System Storage Archive Manager V6.4 (refer to Note 1)

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

IBM Tivoli Storage Manager for Enterprise Resource Planning

<http://www.ibm.com/support/docview.wss?uid=swg21219410>

For technical requirements for Tivoli Storage Manager Suite for Unified Recovery V6.4 and Tivoli Storage Manager Suite for Unified Recovery Entry V6.4, refer to the individual product websites listed above.

Note 1: Tivoli Storage Manager V6.4, Tivoli Storage Manager Extended Edition V6.4, and IBM System Storage Archive Manager V6.4 have the same hardware, software, and supported device requirements.

Tivoli Storage Manager Operations Center V6.4.1 graphical user interface components require Tivoli Storage Manager Server V6.3.4, or later. Tivoli Storage Manager Server component V6.3.4 delivers support for Microsoft™ Windows Server 2012.

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

Tivoli Storage Manager customers may consider purchasing IBM Tivoli Storage Manager FastBack® for Workstations. Tivoli Storage Manager FastBack for Workstations is a real-time, continuous data protection solution specifically designed for laptops and desktops. Tivoli Storage Manager can be used with Tivoli Storage Manager FastBack for Workstations to provide off-machine protection when a user is connected, so real-time backups still occur. Tivoli Storage Manager provides off-site copies of backup data for vaulting, auditable disaster recovery plan, and tape and media management.

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 V6.4 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 V6.4 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_spacific_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.

Notes :

- Some programs may require licenses for the program **and** what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- Some programs may be licensed on a managed basis **only** . In that case, the following applies: Instead of the entitlements required for the program directly, Licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

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.

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 :

- 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 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 licensing requirements for SONAS require entitlements for the interface nodes that perform the data movement.
- Tivoli Storage Manager licensing requirements for GPFS™ require entitlements for the nodes that perform the 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.
- If a NetApp Network Attached Storage (NAS) device is backed up using Common Internet File System (CIFS) or Network File System (NFS), entitlement for either IBM Tivoli Storage Manager or IBM Tivoli Storage Manager Extended Edition is required for that NAS device.
- 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.

- 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.
- 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 environment	Total client device 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

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 the 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 the 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 requirements

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
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TSM or TSM Extended Edition	4	4
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TSM for Databases	4	4
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Sub-capacity requirements

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

Tivoli Storage Manager Suite for Unified Recovery Entry supports a combined maximum of 100 terabytes (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.

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

For more information about IBM Software Value Plus, visit

http://www.ibm.com/partnerworld/page/svp_authorized_portfolio

To locate IBM Business Partners for Software Value Plus in your geography for a specific Software Value Plus portfolio, visit

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 Enterprise Resource Planning	5608-E05
IBM Tivoli Storage Manager Suite for Unified Recovery	5724-Z12
IBM Tivoli Storage Manager Suite for Unified Recovery Entry	5725-H25

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
(5608-E01) IBM Tivoli Storage Manager V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13FML
(5608-E02) IBM Tivoli Storage Manager Extended Edition V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13GML
(5608-E03) IBM System Storage Archive Manager V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13HML
(5608-E05) IBM Tivoli Storage Manager for Enterprise Resource Planning V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13IML
(5724-Z12) IBM Tivoli Storage Manager Suite for Unified Recovery V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13JML
(5725-H25) IBM Tivoli Storage Manager Suite for Unified Recovery Entry V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13KML

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 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 SW S&S. SW S&S in the second year (the first year of renewal) can be prorated to be coterminous with your common anniversary date. Thereafter, all SW S&S will renew at the common anniversary date for twelve full months of SW S&S.

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 SW S&S.

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 Tivoli Storage Manager for Enterprise Resource Planning (5608-E05)	
10 Processor Value Units:	
License and SW S&S 12 Months	D56F7LL
Annual SW S&S Renewal	E029CLL
SW S&S Reinstatement 12 Months	D56FBLL
IBM System Storage Archive Manager (5608-E03)	
Per Terabyte (1-12)	
License and SW S&S 12 Months	D61H2LL
Per Terabyte (1-12)	
Annual SW S&S Renewal	E040YLL
Per Terabyte (1-12)	
SW S&S Reinstatement 12 Months	D61H3LL
Per Terabyte (13-32)	
License and SW S&S 12 Months	D61G7LL
Per Terabyte (13-32)	
Annual SW S&S Renewal	E040ILL
Per Terabyte (13-32)	

SW S&S Reinstatement 12 Months	D61G8LL
Per Terabyte (33-64) License and SW S&S 12 Months	D61GHLL
Per Terabyte (33-64) Annual SW S&S Renewal	E040NLL
Per Terabyte (33-64) SW S&S Reinstatement 12 Months	D61GILL
Per Terabyte (65-100) License and SW S&S 12 Months	D61GJLL
Per Terabyte (65-100) Annual SW S&S Renewal	E040PLL
Per Terabyte (65-100) SW S&S Reinstatement 12 Months	D61GKLL
Per Terabyte (101-250) License and SW S&S 12 Months	D61GLLL
Per Terabyte (101-250) Annual SW S&S Renewal	E040QLL
Per Terabyte (101-250) SW S&S Reinstatement 12 Months	D61GMLL
Per Terabyte (251+) License and SW S&S 12 Months	D61GNLL
Per Terabyte (251+) Annual SW S&S Renewal	E040RLL
Per Terabyte (251+) SW S&S Reinstatement 12 Months	D61GPLL
IBM Tivoli Storage Manager Suite for Unified Recovery (5724-z12)	
Per Terabyte (1-100) License and SW S&S 12 Months	D0BM1LL
Per Terabyte (1-100) Annual SW S&S Renewal	E084XLL
Per Terabyte (1-100) SW S&S Reinstatement 12 Months	D0BM2LL
Per Terabyte (101-250) License and SW S&S 12 Months	D0BM9LL
Per Terabyte (101-250) Annual SW S&S Renewal	E0851LL
Per Terabyte (101-250) SW S&S Reinstatement 12 Months	D0BMALL
Per Terabyte (251-500) License and SW S&S 12 Months	D0BMBLL
Per Terabyte (251-500) Annual SW S&S Renewal	E0852LL
Per Terabyte (251-500) SW S&S Reinstatement 12 Months	D0BMCLL
Per Terabyte (501-750) License and SW S&S 12 Months	D0BMJLL
Per Terabyte (501-750) Annual SW S&S Renewal	E0856LL
Per Terabyte (501-750) SW S&S Reinstatement 12 Months	D0BMLLL
Per Terabyte (751-1,250) License and SW S&S 12 Months	D0BMKLL
Per Terabyte (751-1,250) Annual SW S&S Renewal	E0857LL
Per Terabyte (751-1,250) SW S&S Reinstatement 12 Months	D0BMMLL
Per Terabyte (1,251-2,000) License and SW S&S 12 Months	D0BMULL
Per Terabyte (1,251-2,000) Annual SW S&S Renewal	E085BLL
Per Terabyte (1,251-2,000) SW S&S Reinstatement 12 Months	D0BMWLL

Per Terabyte (2,001+)	
License and SW S&S 12 Months	D0BMVLL
Per Terabyte (2,001+)	
Annual SW S&S Renewal	E085CLL
Per Terabyte (2,001+)	
SW S&S Reinstatement 12 Months	D0BMXLL

IBM Tivoli Storage Manager Suite for Unified Recovery Entry (5725-H25)

Per Terabyte (1-100)	
License and SW S&S 12 Months	D0Q3XLL
Per Terabyte (1-100)	
Annual SW S&S Renewal	E0DYELL
Per Terabyte (1-100)	
SW S&S Reinstatement 12 Months	D0Q3YLL

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 Manager V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13FML
IBM Tivoli Storage Manager Extended Edition V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13GML
IBM System Storage Archive Manager V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13HML
IBM Tivoli Storage Manager for Enterprise Resource Planning V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13IML
IBM Tivoli Storage Manager Suite for Unified Recovery V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13JML
IBM Tivoli Storage Manager Suite for Unified Recovery Entry V6.4.1 Multiplatform Multilingual DVD Media Pack	BJ13KML

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

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License Information form number

- IBM Tivoli Storage Manager (5608-E01): L-BEBY-96VT4F
- IBM Tivoli Storage Manager Extended Edition (5608-E02): L-BEBY-96VVS3
- IBM System Storage Archive Manager (5608-E03): L-BEBY-96VWV8
- IBM Tivoli Storage Manager Suite for Unified Recovery (5724-Z12): L-BEBY-8VUU8F
- IBM Tivoli Storage Manager Suite for Unified Recovery Entry (5725-H25): L-BEBY-8VUUHS
- IBM Tivoli Storage Manager for Enterprise Resource Planning (5608-E05): L-BEBY-8WS2G5

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>

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Yes

Limited warranty

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Other terms**Volume orders (IVO)**

No

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

Yes, and through the Passport Advantage website at

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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

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IBM Operational Support Services - SoftwareXcel

No

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Not applicable.

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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.

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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 .

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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

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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

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Prices

Passport Advantage

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Information on charges is available at website

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

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<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>

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http://www.ibm.com/partnerworld/page/svp_authorized_portfolio_criteria

For questions regarding Software Value Plus, visit

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