



IBM System Storage SAN Volume Controller V6.1.0 delivers performance and enhancements

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At a glance

Are your storage requirements growing too fast? Are the costs of managing this growth taking more and more of your IT budget? IBM® System Storage® SAN Volume Controller V6.1 can help solve these problems and get you on the road towards a more flexible, responsive, and efficient storage environment. IBM System Storage SAN Volume Controller is designed to deliver the benefits of storage virtualization in environments from large enterprises to small businesses and midmarket companies.

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

Overview

IBM System Storage SAN Volume Controller (SVC) V6.1.0 has been designed to provide significant new capabilities to assist storage administrators in their responsibilities, enabling them to manage even broader and more complex storage infrastructures and to get increased performance out of their storage. V6.1.0 is designed to deliver enhancements to SVC in the areas of performance, volume management, system scalability, and includes a redesigned user interface. SVC delivers IBM System Storage Easy Tier which is designed to automate data placement throughout the SVC managed disk group onto two tiers of storage to intelligently align the system with current workload requirements. While accommodating manual control, Easy Tier supports the ability to automatically and nondisruptively relocate data (at the extent level) from one tier to the other in either direction to achieve the best storage performance available.

Customers can benefit from a newly designed user interface that not only delivers many more functional enhancements and greater ease of use, but can be accessed from anywhere on the network with a web browser. Enhancements to the user interface include greater flexibility of views, increased number of characters allowed for naming objects, display of the command lines being executed, and improved user customization. Customers using Tivoli® Storage Productivity Center and IBM System Director can take advantage of greater integration points with the new SVC Console.

SVC interoperability now supports additional storage products including the EMC Symmetrix VMAX and Compellent Fluid Data Storage Series 20.

Customers attaching IBM XIV® Storage Systems to SAN Volume Controller can also benefit from the introduction of a new way to license SAN Volume Controller that will

better accommodate the XIV attachment and achieve better price efficiencies under the 5639-SX1 license.

Users of solid-state devices (SSDs) on the SAN Volume Controller 2145-CF8 can not install SVC 6.1.0 at this time.

Key prerequisites

IBM System Storage SAN Volume Controller Entry Edition Software, 5639-VW2, has the same prerequisites as IBM System Storage SAN Volume Controller Software V6, 5639-VC6.

Note: If the IBM System Storage Productivity Center (SSPC) is not yet installed at the site, it must be ordered with the SVC V6.1 order. SSPC must be ordered via AAS, whether the SVC Software is ordered via AAS or Passport Advantage®.

Refer to the [Hardware requirements](#), [Software requirements](#), and [Ordering information](#) sections.

Planned availability date

November 12, 2010: SAN Volume Controller Software V6 AAS and Passport Advantage new order shipments begin

Note: If the IBM System Storage Productivity Center (SSPC) is not yet installed at the site, it must be ordered with the SVC V6.1. SSPC must be ordered via AAS, whether the SVC Software is ordered via AAS or Passport Advantage. Refer to the [Software requirements](#) and [Ordering information](#) sections.

Description

IBM System Storage Easy Tier

IBM System Storage Easy Tier is designed to help automate data placement throughout the SVC MDisk group (including drive tiers) to intelligently align the system with current workload requirements. This includes the ability for the system to automatically and nondisruptively relocate data (at the extent level) or to model the recommended migration and allow the user to decide which ones to perform. The benefit is to align performance of the system with the appropriate application workloads. SSDs can be managed whether they are internal or external to SVC.

Storage is divided into two tiers within the MDisk group, typically SSD and HDD, though other divisions and definitions are permitted. Volumes in a MDisk group with SSD and HDD will be monitored and can be managed automatically or manually by moving hot extents to SSD and cold extents to HDD.

SVC Console

The SVC Console has a newly designed graphical user interface (GUI) which now runs on the SVC and can be accessed from anywhere on the network using a web browser. While the new design provides many advantages over the former SVC Console, enhancements include greater flexibility of views, increased number of characters allowed for naming objects, display of the command lines being executed, and improved user customization within the GUI. Customers using Tivoli Storage Productivity Center and IBM System Director can take advantage of integration points with the new SVC Console. As with managing the SVC under Tivoli Storage Productivity Center, IBM System Director will be enabled to perform most common day to day activities for SVC without ever needing to leave the IBM System Director user interface. SVC Console users on SVC V5.1 and prior releases will need to migrate from their present user interface to the new user interface when upgrading to SVC V6.1. Refer to the SVC documentation for further instructions.

SVC for XIV (5639-SX1)

The new PID 5639-SX1, IBM SAN Volume Controller for XIV Software V6, is priced by the number of storage devices (also referred to as modules or enclosures). For example, six-module XIV system behind SVC would require a quantity six storage devices of the appropriate feature code under 5639-SX1. There are unique feature codes for the two different drive size offerings from XIV (1 TB and 2 TB). There are no unique feature codes for FlashCopy® and Metro/Global Mirror under 5639-SX1. Use of FlashCopy and Metro/Global Mirror is covered for the capacity of the storage devices licensed under 5639-SX1.

Customers can determine how many enclosures of 5639-SX1 to order by the size of the XIV system configuration. For example, a 12-module XIV configuration has 61 TB usable capacity* for 1TB drives and 125 TB usable capacity* for 2 TB. For more information about the usable capacity, refer to the product fact sheet for XIV available from this web site:

<http://www.ibm.com/systems/storage/disk/xiv/>

A customer managing heterogeneous storage with XIV systems would calculate the remaining storage to virtualize under a 5639-VC6 license, by subtracting the usable capacity of the XIV configuration. Customers will use a similar methodology to enter what capacity they are entitled to by adding up the usable capacity of the XIV systems managed under the 5639-SX1 license with the remaining capacity under the 5639-VC6 license. In every other way, other than those points described herein, the 5639-SX1 license is like the 5639-VC6 license (same code prerequisites, same hardware limitations, etc.) which is described in the license information. There is no conversion of 5639-VC6 licenses to 5639-SX1. For existing SAN Volume Controller customers, changes to licensing should be addressed with an IBM sales representative.

* Usable capacity after factoring in disk space used by mirroring for redundancy, spares, and metadata

8 GB extents

SVC V6.1 provides administrators greater flexibility for managed storage by introducing an extent size of 8 GB.

Service Assistant

SVC V6.1 introduces a new method for performing service tasks on the system. In addition to performing service tasks from the front panel you can also service a node through an Ethernet connection using either a web browser or command line interface. The web browser runs a new service application called the Service Assistant. All function that was previously available through the front panel are now available from the Ethernet connection, with the advantages of an easier to use interface and remote access from the cluster.

Added interoperability

SVC now supports many more heterogeneous data center environments with the addition of interoperability support for:

- VMware vSphere 4.1
- EMC Symmetrix VMAX
- Compellent Series 20 Storage Controller
- Fujitsu Eternus models DX60, DX80, DX90, DX410, DX8100, DX8300, DX9700
- IBM DS8800
- IBM Storwize V7000

For all the specific models and host environments supported, visit

<http://www.ibm.com/storage/support/2145>

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

Section 508 of the U.S. Rehabilitation Act

IBM System Storage SAN Volume Controller Software V6 is capable, as of October 15, 2010, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act provided that any assistive technology used with the product properly interoperates with it.

Product positioning

IBM System Storage SAN Volume Controller is a virtualization offering designed to virtualize storage within the data center. It is intended to complement other IBM virtualization offerings, such as IBM Power Systems™ and IBM System z® logical partitions (LPARs) and VMware vSphere Server.

The newly introduced IBM Storwize V7000 is targeted to meet the storage and storage virtualization needs of small and medium and businesses, and midmarket customers with SAS-attached storage, while allowing greater expansion capabilities with SAN-attached storage. Together, IBM Storwize V7000 and SAN Volume Controller offerings address virtualization requirements for a wide range of customers from small and medium businesses through midsized to large enterprises.

Reference information

For information about the IBM Tivoli Storage FlashCopy Manager V2.1, refer to Software Announcement [209-297](#), dated October 20, 2009.

For IBM System Storage Productivity Center ordering information, refer to:

- Hardware Announcement [109-730](#), dated October 20, 2009
- Hardware Announcement [108-317](#), dated May 13, 2008
- Hardware Announcement [707-043](#), dated October 23, 2007
- Hardware Announcement [107-609](#), dated October 23, 2007
- Hardware Announcement [207-263](#), dated October 23, 2007

For the previous IBM System Storage SAN Volume Controller Software V5.1 announcement, refer to Software Announcement [209-261](#), dated October 20, 2009.

For the previous IBM System Storage SAN Volume Controller Storage Engine announcement of 2145-CF8, refer to Software Announcement [109-536](#), dated October 20, 2009.

For the previous IBM System Storage SAN Volume Controller Software V4.3.1 announcement, introducing Entry Edition, refer to Software Announcement [208-326](#), dated October 28, 2008.

For the previous IBM System Storage SAN Volume Controller Software V4.3 announcement, including space-efficient functions, refer to Software Announcement [208-114](#), dated May 13, 2008.

For the previous IBM System Storage SAN Volume Controller Software V4.2.1 announcement, refer to Software Announcement [207-264](#), dated October 23, 2007.

For the previous IBM System Storage SAN Volume Controller Software V4.2.0 announcement, refer to Software Announcement [207-105](#), dated May 22, 2007.

For the previous IBM System Storage SAN Volume Controller Storage Engine announcement of 2145-8G4, refer to Hardware Announcement [107-296](#), dated May 22, 2007.

For the previous IBM System Storage SAN Volume Controller Software V4.1 announcement, refer to Software Announcement [206-121](#), dated May 23, 2006.

Program number

Program number	VRM	Program name
5639-VC6	6.1.0	IBM System Storage SAN Volume Controller Software V6.1
5725-B99	6.1.0	IBM System Storage SAN Volume Controller Software V6.1 (for Passport Advantage)
5639-SX1	6.1.0	IBM System Storage SAN Volume Controller for XIV Software V6

Product identification number

PID numbers for SAN Volume Controller Software V6 are:

Program PID number	Maintenance 1 year PID number	Maintenance 3 year PID number
5639-VC6	5639-SST reg	5639-SSC reg
Maintenance 2 year PID number	Maintenance 4 year PID number	Maintenance 5 year PID number
5639-SSF reg	5639-SSG reg	5639-SSH reg

PID numbers for SAN Volume Controller for XIV Software V6 are:

Program PID number	Maintenance 1 year PID number	Maintenance 3 year PID number
5639-SX1	5639-SXA reg	5639-SXC reg
Maintenance 2 year PID number	Maintenance 4 year PID number	Maintenance 5 year PID number
5639-SXF reg	5639-SXG reg	5639-SXH reg

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=210-350>

Education support

The following courses are available:

Web Lecture Courses - available to IBM and Business Partners

Storage Technical Online Education courses on the IBM System Storage SAN Volume Controller product will be available to IBM and Business Partners on the IBM Systems College (formerly STG SMART Zone) site at Announce:

- IBM
<http://lt.be.ibm.com/smartzone/storagetech>
- Business Partners
<http://www.ibm.com/services/weblectures/dlv/smartzone/storagetech>

Classroom Courses - available to IBM, Business Partners and Customers

One new classroom hands-on course will be available worldwide to all audiences for SVC 6.1 with sessions beginning in November/December 2010:

Course number	Course title
SNT0	SAN Volume Controller (SVC) v6 update and Transition

For more information and course schedules, go to IBM training website

http://www.ibm.com/services/learning/ites.wss/zz/en?pageType=tp_search

Search on the course number - 'SNT0'

SNT0 course information, visit

http://www.ibm.com/services/learning/ites.wss/tp/en?pageType=tp_search_results&rowStart=0&rowsToReturn=20&searchString=snt0

Additional courses that will be updated for SVC 6.1.0 SW:

- SAN Volume Controller Planning and Implementation (course code SN82G)
- SAN Volume Controller Planning and Implementation Workshop (course code SN83G)

The Tivoli Storage Productivity Center Hands-on Workshop (course code SN856) also contains material specific to managing SAN Volume Controller storage configurations using TotalStorage® Productivity Center for Disk and related tools.

More information is available at

<http://www.ibm.com/services/learning/>

or

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

Search on the course codes previously given and on SN82* and SN83*.

IBM Global Services, IT Education Services, provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM IT Education Services website

<http://www.ibm.com/services/learning/>

Refer to the IBM IT Education Services website for information on course locations and availability dates.

(426-8322) For catalogs, schedules, and enrollments visit

<http://www.ibm.com/products/finder/us/finders?pg=trfinder>

Offering Information

Product information is available via the Offering Information Web site

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

Also, visit the Passport Advantage Web site

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

Publications

The following DVD ships with new IBM System Storage SAN Volume Controller Software V6 orders:

Title	Order number
IBM System Storage SAN Volume Controller Customer Documentation and Information Center DVD	SK5T-8811

The following publications can be downloaded in PDF format from the Web sites that follow this list:

Title	Order number
IBM System Storage SAN Volume Controller Model 2145-CF8 Hardware Installation Guide	GC27-2282
IBM System Storage SAN Volume Controller Hardware Maintenance Guide	GC27-2226
IBM System Storage SAN Volume Controller Troubleshooting Guide	GC27-2284
IBM System Storage SAN Volume Controller Software Installation and Configuration Guide	GC27-2286
IBM System Storage SAN Volume Controller and Storwize V7000 Command-Line Interface User's Guide	GC27-2287
IBM System Storage SAN Volume Controller CIM Agent Developer's Guide	SG27-2288
IBM System Storage SAN Volume Controller Safety Notices	GA32-0844
IBM System Storage Multipath Subsystem Device Driver User's Guide	GC52-1309

Additional copies of all publications are available on October 15, 2010. You can use the following options to order or download additional copies:

- To view online information and link to a download site, visit the IBM SAN Volume Controller Information Center

<http://publib.boulder.ibm.com/infocenter/svc/ic/index.jsp>

- To order additional selected hardcopy publications for a fee or download free PDF format publications, visit the IBM Publications Center Web site
<http://www.ibm.com/shop/publications/order>
- To directly download publications in PDF format, visit the IBM product support Web site
<http://www.ibm.com/storage/support/2145>
- Call the Publications Support Group at 800-879-2755, and select option 1.
- Contact your IBM representative.

The IBM Publications Center

Hardcopies of selected SAN Volume Controller publications are available for a fee from the IBM Publications Center, as well as free softcopy publications. The 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. Payment options for orders are via credit card or customer number. A large number of publications are available online in various file formats, and they can all be downloaded free of charge.

Publications may also be obtained on DVD via use of media feature 5809.

Technical information

Specified operating environment

Hardware requirements

This program requires at least one pair of IBM System Storage SAN Volume Controller 2145-CF8, 2145-8A4, 2145-8G4, 2145-8F4, or 2145-8F2 storage engines with dual uninterruptible power supplies, and a System Storage Productivity Center for installation.

As with SVC V5, SVC V6 software cannot be loaded or run on SVC hardware engine model 2145-4F2.

Unless the Tivoli Storage Productivity Center is already being used with the SVC site, all new SAN Volume Controller installations require the System Storage Productivity Center, which comes with Tivoli Storage Productivity Center Basic Edition.

Current support summaries, including specific software, hardware, and firmware levels supported, are maintained at the SAN Volume Controller Support website

<http://www.ibm.com/storage/support/2145>

For information on how to order System Storage Productivity Center, refer to Hardware Announcement [109-730](#), dated October 20, 2009.

For further hardware requirements with new 2145-CF8 clusters, refer to Hardware Announcement [109-536](#), dated October 20, 2009.

For further hardware requirements with new 2145-8A4 clusters, refer to Hardware Announcement [108-805](#), dated October 28, 2008.

Software requirements

Installation of SAN Volume Controller V6.1 software requires the current upgrade for SAN Volume Controller Software V5.1. See the [Installability](#) section for details.

Refer to the [Description](#) section for new storage system and host environment support added by this announcement.

For all current storage systems and host environments supported, refer to the support Web site

<http://www.ibm.com/storage/support/2145>

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

IBM SAN Volume Controller (SVC) Software Upgrade Services

These services are designed to assist existing IBM SVC customers with planning, skills transfer, and upgrade of their IBM SAN Volume Controller cluster and master console software.

These services can include:

- Conducting a remote planning session to:
 - Review SVC configuration information
 - Determine current version of SVC software
 - Review host, disk storage, SVC cluster, and master console code requirements and prerequisites
 - Define roles and responsibilities, identify tasks, and schedule the SVC software upgrade
- Assigning an on-site IBM services specialist to:
 - Upgrade the SVC cluster and master console software
 - Provide an updated SVC installation record for the new software version
 - Provide skills transfer to technical staff

For additional information or to request these services:

- Send an email to storsvcs@us.ibm.com
- Visit the following Web site and click on "Contact now" to submit your inquiry or request

http://www.ibm.com/systems/services/labservices/labservices_storage.html

Compatibility

For further information regarding currently supported environments and operating guidelines, visit the SAN Volume Controller Support website at

<http://www.ibm.com/storage/support/2145>

Limitations

This program operates on specified storage engine hardware only, currently defined by IBM 2145-CF8, 2145-8A4, 2145-8G4, 2145-8F4, and 2145-8F2 storage engines. Because SAN Volume Controller Software V6 requires 64-bit hardware, SVC V6 cannot run on the IBM 2145-4F2. Customers who want to migrate from currently installed 2145-4F2 models to the newer 2145-CF8 models that ship with SVC V6 software, will need to follow specific migration instructions available at the SAN Volume Controller Support Web Site at

<http://www.ibm.com/storage/support/2145>

For hardware-associated limitations, refer respectively to Hardware Announcement [109-536](#), dated October 20, 2009, and Hardware Announcement [108-805](#), dated October 28, 2008.

For additional information, refer to "Usage restriction" in the [Terms and conditions](#) section of this announcement, and to the License Information document that is available on the IBM Software License Agreement website

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

Additional information on configuration limitations and configuration guidelines is further documented in the README file accompanying the SAN Volume Controller Software Edition V6, in furnished publications for this product, or under the Plan/Upgrade tab in the IBM System Storage SAN Volume Controller Restrictions document at

<http://www.ibm.com/storage/support/2145>

Planning information

Planning considerations for the required IBM System Storage SAN Volume Controller Storage Engines apply. Refer to the announcements listed in the [Reference information](#) section and to the *IBM System Storage SAN Volume Controller information center*, which is available at:

<http://www.ibm.com/support/publications/us/library/>

Fee-based storage services are also available. For details, refer to the **Storage services** section.

Customer responsibilities

Planning for and provision of the power and environmental support of the required IBM System Storage SAN Volume Controller, including its storage engines, is a customer responsibility.

Refer to the announcements listed in the [Reference information](#) section.

Planning considerations for IBM System Storage SAN Volume Controller are listed in the *IBM System Storage SAN Volume Controller information center*, which is available at:

<http://www.ibm.com/support/publications/us/library/>

Service support for the IBM System Storage Productivity Center and its operating system, on which the SVC Console software runs, is a customer responsibility (and is separately ordered).

Customers with 5639-VC6 site licenses are responsible to combine the total terabytes managed for each function from individual SAN Volume Controller License Manager (cluster) reports, to ensure they are within site license entitlement for each function.

Installability

Clusters with SAN Volume Controller V5.1.0.7 (or whichever is the latest version of the code) can be upgraded directly to SAN Volume Controller V6.1. Previous levels of SAN Volume Controller V5.1 must be upgraded to the most recent 5.1 level before being upgraded to V6.1.

Customers running SAN Volume Controller V1 and V2 clusters must first acquire and install the SAN Volume Controller V3 code to enable installation of V4. V4.3.1 is prerequisite to performing a concurrent code load to SVC V5.

Note: Clusters with earlier versions of SAN Volume Controller Storage Software priced per terabyte (for example, 5639-VC4) cannot be converted to IBM System Storage SAN Volume Controller Entry Edition (5639-VW2). A new product purchase is necessary.

For current hardware and software interoperability dependencies and other product environment and configuration information, refer to the SAN Volume Controller product support website at

<http://www.ibm.com/storage/support/2145>

For current V1, V2, and V3 license conversion information, refer to the [Ordering information](#) section in the SAN Volume Controller Software V4.1 announcement, Software Announcement [206-121](#), dated May 23, 2006.

Software Maintenance is included with licenses purchased through Passport Advantage and Passport Advantage Express®, as well as through AAS. Product upgrades and technical support are provided by the Software Maintenance offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and Technical Support provides voice and electronic access to IBM support organizations worldwide.

IBM includes one year of Software Maintenance with each program license acquired. The initial period of Software Maintenance can be extended by the purchase of a renewal option, if available.

The customer is responsible for ensuring they renew their SWMA coverage for all licensed features and capacities before expiration. Restarting SWMA after expiration will incur a higher charge for that renewal. Note that the AAS ordering system does not provide notification of expiring SWMA contracts. The Passport Advantage system does provide automated renewal capability for SWMA.

Packaging

New order packaging

IBM System Storage SAN Volume Controller Software V6, 5639-VC6, is preloaded on and shipped with the required IBM 2145 SAN Volume Controller Storage Engines.

After receipt of an order for SAN Volume Controller 5639-VC6 the Business Partner or end customer will be required to register and accept Passport Advantage or Passport Express terms and conditions. Upon registration, the end customer will be authorized for the electronic download of software code updates. The product includes the license and one year of support, with up to four additional years available for purchase with the product.

Note: Renewals and after license SWMA will remain available in AAS for existing SAN Volume Controller customers already entitled in the AAS system.

License Information documents for SAN Volume Controller programs ship with the hardware on which they are preloaded.

The following are shipped with each new IBM System Storage SAN Volume Controller order:

- IBM Agreement for Acquisition of Support and Addendum for Support, Z125-6011
- License Information for IBM System Storage SAN Volume Controller V6.1, LC23-5059
- License Information for IBM System Storage SAN Volume Controller Information Center 6.1.0, LC23-5098
- License Information for IBM System Storage SAN Volume Controller Storage Replication Adapter for VMware SRM, GA76-0431
- IBM System Storage SAN Volume Controller Read First file, GA32-0843-00

The paid invoice acts as Proof of Entitlement (PoE) for all orders of IBM SAN Volume Controller Software Edition V6.

All associated media listed in the [Publications](#) section are also shipped with the new hardware order. One media set per SAN Volume Controller cluster will be shipped.

Refer to the hardware announcements listed in the [Reference information](#) section for correlated hardware order features.

Subsequent media orders

Publications for SVC V6 storage software can also be included when additional Base Virtualization capacity authorizations, FlashCopy, or Metro/Global Mirror features are ordered subsequently to the original cluster software order, by specifying feature number 5809 of the 5639-VC6.

Specification of feature number 5809 will result in shipment of the following CD:

IBM System Storage SAN Volume Controller Customer Documentation and Information Center DVD SK5T-8811

For additional available publications, refer to the [Publications](#) section.

For assistance in placing orders with or without media features, contact your IBM representative.

Publications are in English.

Passport Advantage customers should refer to the [Ordering information](#) section, and visit

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

Security, auditability, and control

The SAN Volume Controller Software V6 uses Secure Shell (SSH) and Secure Socket Layer (SSL) protocols to communicate between the SAN Volume Controller cluster and the System Storage Productivity Center (SSPC).

Use of supplementary antivirus software is recommended, but not required. 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/>

Ordering information

Order handling

The IBM storage software for products identified in this announcement (5639-VC6 and 5639-SX1) will continue to 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 "Subscription and Support," often referred to as "Software Maintenance."

Starting with this announcement, the products 5639-VC6 and 5639-SX1 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 5639-VC6 and 5639-SX1 based on existing supported hardware system units in your business environment. Offerings in this announcement are available exclusively via electronic download.

New orders placed for 5639-VC6 and 5639-SX1 will be routed and fulfilled through Passport Advantage Express and/or Passport Advantage. Subscription and Support renewals will be managed through Passport Advantage.

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 and or Passport Advantage Express agreement remains in effect.

Product group: IBM Systems and Technology Group,
System Storage Division

Product Identifier Description	(PID)
IBM System Storage SAN Volume Controller Storage Software V6 per Terabyte with Cumulative Tiers	5639-VC6
IBM System Storage SAN Volume Controller Storage Software V6 (for Passport Advantage) per Terabyte with Cumulative Tiers	5725-B99
IBM System Storage SAN Volume Controller for XIV Storage Software V6 per Storage Device	5639-SX1

Product category: Storage Virtualization

Program name: IBM System Storage
SAN Volume Controller
Storage Software V6
PID: 5639-VC6

Use-based OTC
with One-year
Software Maintenance

Description	Program number	Feature number
SVC VZN+1YRSWM/TB 1-12 SVC Base Virtualization Per Terabyte 1-12 with 1 Year SW Maintenance	5639-VC6	0001
SVC VZN+1YRSWM/TB 13-32 SVC Base Virtualization Per Terabyte 13-32 with 1 Year SW Maintenance		0002
SVC VZN+1YRSWM/TB 33-64 SVC Base Virtualization Per Terabyte 33-64 with 1 Year SW Maintenance		0003
SVC VZN+1YRSWM/TB 65-100 SVC Base Virtualization Per Terabyte 65-100		0004

with 1 Year SW Maintenance	
SVC VZN+1YRSWM/TB 101-250 SVC Base Virtualization Per Terabyte 101-250 with 1 Year SW Maintenance	0005
SVC VZN+1YRSWM/TB 251+ SVC Base Virtualization Per Terabyte 251+ with 1 Year SW Maintenance	0006
SVC VZN+1YRSWM/250TB 251+ SVC Base Virtualization Per 250 Terabyte 251+ with 1 Year SW Maintenance	0007
SVC FLC+1YRSWM/TB 1-12 FlashCopy for SVC Per Terabyte 1-12 with 1 Year SW Maintenance	0008
SVC FLC+1YRSWM/TB 13-32 FlashCopy for SVC Per Terabyte 13-32 with 1 Year SW Maintenance	0009
SVC FLC+1YRSWM/TB 33-64 FlashCopy for SVC Per Terabyte 33-64 with 1 Year SW Maintenance	0010
SVC FLC+1YRSWM/TB 65-100 FlashCopy for SVC Per Terabyte 65-100 with 1 Year SW Maintenance	0011
SVC FLC+1YRSWM/TB 101-250 FlashCopy for SVC Per Terabyte 101-250 with 1 Year SW Maintenance	0012
SVC FLC+1YRSWM/TB 251+ FlashCopy for SVC Per Terabyte 251+ with 1 Year SW Maintenance	0013
SVC FLC+1YRSWM/250TB 251+ FlashCopy for SVC Per 250 Terabyte 251+ with 1 Year SW Maintenance	0014
SVC RMC+1YRSWM/TB 1-12 Metro/Global Mirror for SVC Per Terabyte 1-12 with 1 Year SW Maintenance	0015
SVC RMC+1YRSWM/TB 13-32 Metro/Global Mirror for SVC Per Terabyte 13-32 with 1 Year SW Maintenance	0016
SVC RMC+1YRSWM/TB 33-64 Metro/Global Mirror for SVC Per Terabyte 33-64 with 1 Year SW Maintenance	0017
SVC RMC+1YRSWM/TB 65-100 Metro/Global Mirror for SVC Per Terabyte 65-100 with 1 Year SW Maintenance	0018
SVC RMC+1YRSWM/TB 101-250 Metro/Global Mirror for SVC	0019

Per Terabyte 101-250
with 1 Year SW Maintenance

SVC RMC+1YRSWM/TB 251+ 0020
Metro/Global Mirror for SVC
Per Terabyte 251+
with 1 Year SW Maintenance

SVC RMC+1YRSWM/250TB 251+ 0021
Metro/Global Mirror for SVC
Per 250 Terabyte 251+
with 1 Year SW Maintenance

No-Charge Media Supply 5809

No-Charge Preload 5005

Program name: IBM System Storage
SAN Volume Controller for XIV
Storage Software V6
PID: 5639-SX1

Use-based OTC
with One-year
Software Maintenance

Description	Program number	Feature number
SVC XIV 1TB+1YRSWM/SD SVC for XIV 1TB Software Per Storage Device with 1 Year SW Maintenance	5639-SX1	0001
SVC XIV 1TB+1YRSWM/250 SD SVC for XIV 1TB Software Per 250 Storage Devices with 1 Year SW Maintenance		0002
SVC XIV 2TB+1YRSWM/SD SVC for XIV 2TB Software Per Storage Device with 1 Year SW Maintenance		0003
SVC XIV 2TB+1YRSWM/250 SD SVC for XIV 2TB Software Per 250 Storage Devices with 1 Year SW Maintenance		0004
No-Charge Media Supply		5809
No-Charge Preload		5005

Software maintenance

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

One-year Registration and Renewal

PID: 5639-SSA

Description	Program number	Feature number
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SVC 1Yr VZN Reg/TB 1-12 SVC Base Virtualization One-year NC Registration per Terabyte 1-12	5639-SSA	3043
SVC 1Yr VZN Reg/TB 13-32 SVC Base Virtualization One-year NC Registration per Terabyte 13-32		3045
SVC 1Yr VZN Reg/TB 33-64 SVC Base Virtualization One-year NC Registration per Terabyte 33-64		3047
SVC 1Yr VZN Reg/TB 65-100 SVC Base Virtualization One-year NC Registration per Terabyte 65-100		3049
SVC 1Yr VZN Reg/TB 101-250 SVC Base Virtualization One-year NC Registration per Terabyte 101-250		3051
SVC 1Yr VZN Reg/TB 251+ SVC Base Virtualization One-year NC Registration per Terabyte 251+		3053
SVC 1Yr VZN Reg/250TB 251+ SVC Base Virtualization One-year NC Registration per 250 Terabyte 251+		3054
SVC 1Yr FLC Reg/TB 1-12 SVC FlashCopy One-year NC Registration per Terabyte 1-12		3057
SVC 1Yr FLC Reg/TB 13-32 SVC FlashCopy One-year NC Registration per Terabyte 13-32		3059
SVC 1Yr FLC Reg/TB 33-64 SVC FlashCopy One-year NC Registration per Terabyte 33-64		3061
SVC 1Yr FLC Reg/TB 65-100 SVC FlashCopy One-year NC Registration per Terabyte 65-100		3063
SVC 1Yr FLC Reg/TB 101-250 SVC FlashCopy One-year NC Registration per Terabyte 101-250		3065
SVC 1Yr FLC Reg/TB 251+ SVC FlashCopy One-year NC Registration per Terabyte 251+		3067
SVC 1Yr FLC Reg/250TB 251+ SVC FlashCopy One-year NC Registration per 250 Terabyte 251+		3068
SVC 1Yr RMC Reg/TB 1-12 SVC Metro/Global Mirror One-year NC Registration		3071

per Terabyte 1-12	
SVC 1Yr RMC Reg/TB 13-32 SVC Metro/Global Mirror One-year NC Registration per Terabyte 13-32	3073
SVC 1Yr RMC Reg/TB 33-64 SVC Metro/Global Mirror One-year NC Registration per Terabyte 33-64	3075
SVC 1Yr RMC Reg/TB 65-100 SVC Metro/Global Mirror One-year NC Registration per Terabyte 65-100	3077
SVC 1Yr RMC Reg/TB 101-250 SVC Metro/Global Mirror One-year NC Registration per Terabyte 101-250	3079
SVC 1Yr RMC Reg/TB 251+ SVC Metro/Global Mirror One-year NC Registration per Terabyte 251+	3081
SVC 1Yr RMC Reg/250TB 251+ SVC Metro/Global Mirror One-year NC Registration per 250 Terabyte 251+	3082

One-year Renewal

Description	Program number	Feature number
SVC 1Yr VZN RNL/TB 1-12 SVC Base Virtualization One-year Renewal One-time charge per Terabyte 1-12	5639-SSA	3044
SVC 1Yr VZN RNL/TB 13-32 SVC Base Virtualization One-year Renewal One-time charge per Terabyte 13-32		3046
SVC 1Yr VZN RNL/TB 33-64 SVC Base Virtualization One-year Renewal One-time charge per Terabyte 33-64		3048
SVC 1Yr VZN RNL/TB 65-100 SVC Base Virtualization One-year Renewal One-time charge per Terabyte 65-100		3050
SVC 1Yr VZN RNL/TB 101-250 SVC Base Virtualization One-year Renewal One-time charge per Terabyte 101-250		3052
SVC 1Yr VZN RNL/TB 251+ SVC Base Virtualization One-year Renewal One-time charge per Terabyte 251+		3055
SVC 1Yr VZN RNL/250TB 251+		3056

SVC Base Virtualization One-year Renewal One-time charge per 250 Terabyte 251+	
SVC 1Yr FLC RNL/TB 1-12 SVC FlashCopy One-year Renewal One-time charge per Terabyte 1-12	3058
SVC 1Yr FLC RNL/TB 13-32 SVC FlashCopy One-year Renewal One-time charge per Terabyte 13-32	3060
SVC 1Yr FLC RNL/TB 33-64 SVC FlashCopy One-year Renewal One-time charge per Terabyte 33-64	3062
SVC 1Yr FLC RNL/TB 65-100 SVC FlashCopy One-year Renewal One-time charge per Terabyte 65-100	3064
SVC 1Yr FLC RNL/TB 101-250 SVC FlashCopy One-year Renewal One-time charge per Terabyte 101-250	3066
SVC 1Yr FLC RNL/TB 251+ SVC FlashCopy One-year Renewal One-time charge per Terabyte 251+	3069
SVC 1Yr FLC RNL/250TB 251+ SVC FlashCopy One-year Renewal One-time charge per 250 Terabyte 251+	3070
SVC 1Yr RMC RNL/TB 1-12 SVC Metro/Global Mirror One-year Renewal One-time charge per Terabyte 1-12	3072
SVC 1Yr RMC RNL/TB 13-32 SVC Metro/Global Mirror One-year Renewal One-time charge per Terabyte 13-32	3074
SVC 1Yr RMC RNL/TB 33-64 SVC Metro/Global Mirror One-year Renewal One-time charge per Terabyte 33-64	3076
SVC 1Yr RMC RNL/TB 65-100 SVC Metro/Global Mirror One-year Renewal One-time charge per Terabyte 65-100	3078
SVC 1Yr RMC RNL/TB 101-250 SVC Metro/Global Mirror One-year Renewal	3080

One-time charge
per Terabyte 101-250

SVC 1Yr RMC RNL/TB 251+ 3083
SVC Metro/Global Mirror
One-year Renewal
One-time charge
per Terabyte 251+

SVC 1Yr RMC RNL/250TB 251+ 3084
SVC Metro/Global Mirror
One-year Renewal
One-time charge
per 250 Terabyte 251+

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

One-year Registration

PID: 5639-SST

Description	Program number	Feature number
SVC 1Yr VZN Reg/TB 1-12 SVC Base Virtualization One-year NC Registration per Terabyte 1-12	5639-SST	0001
SVC 1Yr VZN Reg/TB 13-32 SVC Base Virtualization One-year NC Registration per Terabyte 13-32		0002
SVC 1Yr VZN Reg/TB 33-64 SVC Base Virtualization One-year NC Registration per Terabyte 33-64		0003
SVC 1Yr VZN Reg/TB 65-100 SVC Base Virtualization One-year NC Registration per Terabyte 65-100		0004
SVC 1Yr VZN Reg/TB 101-250 SVC Base Virtualization One-year NC Registration per Terabyte 101-250		0005
SVC 1Yr VZN Reg/TB 251+ SVC Base Virtualization One-year NC Registration per Terabyte 251+		0006
SVC 1Yr VZN Reg/250TB 251+ SVC Base Virtualization One-year NC Registration per 250 Terabyte 251+		0007
SVC 1Yr FLC Reg/TB 1-12 SVC FlashCopy One-year NC Registration per Terabyte 1-12		0008
SVC 1Yr FLC Reg/TB 13-32 SVC FlashCopy One-year NC Registration per Terabyte 13-32		0009
SVC 1Yr FLC Reg/TB 33-64 SVC FlashCopy One-year NC Registration		0010

per Terabyte 33-64	
SVC 1Yr FLC Reg/TB 65-100 SVC FlashCopy One-year NC Registration per Terabyte 65-100	0011
SVC 1Yr FLC Reg/TB 101-250 SVC FlashCopy One-year NC Registration per Terabyte 101-250	0012
SVC 1Yr FLC Reg/TB 251+ SVC FlashCopy One-year NC Registration per Terabyte 251+	0013
SVC 1Yr FLC Reg/250TB 251+ SVC FlashCopy One-year NC Registration per 250 Terabyte 251+	0014
SVC 1Yr RMC Reg/TB 1-12 SVC Metro/Global Mirror One-year NC Registration per Terabyte 1-12	0015
SVC 1Yr RMC Reg/TB 13-32 SVC Metro/Global Mirror One-year NC Registration per Terabyte 13-32	0016
SVC 1Yr RMC Reg/TB 33-64 SVC Metro/Global Mirror One-year NC Registration per Terabyte 33-64	0017
SVC 1Yr RMC Reg/TB 65-100 SVC Metro/Global Mirror One-year NC Registration per Terabyte 65-100	0018
SVC 1Yr RMC Reg/TB 101-250 SVC Metro/Global Mirror One-year NC Registration per Terabyte 101-250	0019
SVC 1Yr RMC Reg/TB 251+ SVC Metro/Global Mirror One-year NC Registration per Terabyte 251+	0020
SVC 1Yr RMC Reg/250TB 251+ SVC Metro/Global Mirror One-year NC Registration per 250 Terabyte 251+	0021

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

Three-year Registration

PID: 5639-SSC

Description	Program number	Feature number
SVC 3Yr VZN Reg/TB 1-12 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 1-12	5639-SSC	3106

SVC 3Yr VZN Reg/TB 13-32 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 13-32	3107
SVC 3Yr VZN Reg/TB 33-64 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 33-64	3108
SVC 3Yr VZN Reg/TB 65-100 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 65-100	3109
SVC 3Yr VZN Reg/TB 101-250 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 101-250	3110
SVC 3Yr VZN Reg/TB 251+ SVC Base Virtualization Three-year Registration One-time charge per Terabyte 251+	3111
SVC 3Yr VZN Reg/250TB 251+ SVC Base Virtualization Three-year Registration One-time charge per 250 Terabyte 251+	3112
SVC 3Yr FLC Reg/TB 1-12 SVC FlashCopy Three-year Registration One-time charge per Terabyte 1-12	3113
SVC 3Yr FLC Reg/TB 13-32 SVC FlashCopy Three-year Registration One-time charge per Terabyte 13-32	3114
SVC 3Yr FLC Reg/TB 33-64 SVC FlashCopy Three-year Registration One-time charge per Terabyte 33-64	3115
SVC 3Yr FLC Reg/TB 65-100 SVC FlashCopy Three-year Registration One-time charge per Terabyte 65-100	3116
SVC 3Yr FLC Reg/TB 101-250 SVC FlashCopy Three-year Registration One-time charge per Terabyte 101-250	3117
SVC 3Yr FLC Reg/TB 251+ SVC FlashCopy Three-year Registration One-time charge per Terabyte 251+	3118
SVC 3Yr FLC Reg/250TB 251+ SVC FlashCopy	3119

Three-year Registration One-time charge per 250 Terabyte 251+	
SVC 3Yr RMC Reg/TB 1-12 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 1-12	3120
SVC 3Yr RMC Reg/TB 13-32 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 13-32	3121
SVC 3Yr RMC Reg/TB 33-64 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 33-64	3122
SVC 3Yr RMC Reg/TB 65-100 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 65-100	3123
SVC 3Yr RMC Reg/TB 101-250 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 101-250	3124
SVC 3Yr RMC Reg/TB 251+ SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 251+	3125
SVC 3Yr RMC Reg/250TB 251+ SVC Metro/Global Mirror Three-year Registration One-time charge per 250 Terabyte 251+	3126

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

Two-year Registration

PID: 5639-SSF

Description	Program number	Feature number
SVC VZN+2YRSWM/TB 1-12 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 1-12	5639-SSF	0001
SVC VZN+2YRSWM/TB 13-32 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 13-32		0002
SVC VZN+2YRSWM/TB 33-64 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 33-64		0003

SVC VZN+2YRSWM/TB 65-100 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 65-100	0004
SVC VZN+2YRSWM/TB 101-250 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 101-250	0005
SVC VZN+2YRSWM/TB 251+ SVC Base Virtualization Two-year Registration One-time charge per Terabyte 251+	0006
SVC VZN+2YRSWM/250TB 251+ SVC Base Virtualization Two-year Registration One-time charge per 250 Terabyte 251+	0007
SVC FLC+2YRSWM/TB 1-12 SVC FlashCopy Two-year Registration One-time charge per Terabyte 1-12	0008
SVC FLC+2YRSWM/TB 13-32 SVC FlashCopy Two-year Registration One-time charge per Terabyte 13-32	0009
SVC FLC+2YRSWM/TB 33-64 SVC FlashCopy Two-year Registration One-time charge per Terabyte 33-64	0010
SVC FLC+2YRSWM/TB 65-100 SVC FlashCopy Two-year Registration One-time charge per Terabyte 65-100	0011
SVC FLC+2YRSWM/TB 101-250 SVC FlashCopy Two-year Registration One-time charge per Terabyte 101-250	0012
SVC FLC+2YRSWM/TB 251+ SVC FlashCopy Two-year Registration One-time charge per Terabyte 251+	0013
SVC FLC+2YRSWM/250TB 251+ SVC FlashCopy Two-year Registration One-time charge per 250 Terabyte 251+	0014
SVC RMC+2YRSWM/TB 1-12 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 1-12	0015
SVC RMC+2YRSWM/TB 13-32	0016

SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 13-32	
SVC RMC+2YRSWM/TB 33-64 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 33-64	0017
SVC RMC+2YRSWM/TB 65-100 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 65-100	0018
SVC RMC+2YRSWM/TB 101-250 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 101-250	0019
SVC RMC+2YRSWM/TB 251+ SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 251+	0020
SVC RMC+2YRSWM/250TB 251+ SVC Metro/Global Mirror Two-year Registration One-time charge per 250 Terabyte 251+	0021

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

Four-year Registration

PID: 5639-SSG

Description	Program number	Feature number
SVC VZN+4YRSWM/TB 1-12 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 1-12	5639-SSG	0001
SVC VZN+4YRSWM/TB 13-32 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 13-32		0002
SVC VZN+4YRSWM/TB 33-64 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 33-64		0003
SVC VZN+4YRSWM/TB 65-100 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 65-100		0004
SVC VZN+4YRSWM/TB 101-250 SVC Base Virtualization Four-year Registration One-time charge		0005

per Terabyte 101-250	
SVC VZN+4YRSWM/TB 251+ SVC Base Virtualization Four-year Registration One-time charge per Terabyte 251+	0006
SVC VZN+4YRSWM/250TB 251+ SVC Base Virtualization Four-year Registration One-time charge per 250 Terabyte 251+	0007
SVC FLC+4YRSWM/TB 1-12 SVC FlashCopy Four-year Registration One-time charge per Terabyte 1-12	0008
SVC FLC+4YRSWM/TB 13-32 SVC FlashCopy Four-year Registration One-time charge per Terabyte 13-32	0009
SVC FLC+4YRSWM/TB 33-64 SVC FlashCopy Four-year Registration One-time charge per Terabyte 33-64	0010
SVC FLC+4YRSWM/TB 65-100 SVC FlashCopy Four-year Registration One-time charge per Terabyte 65-100	0011
SVC FLC+4YRSWM/TB 101-250 SVC FlashCopy Four-year Registration One-time charge per Terabyte 101-250	0012
SVC FLC+4YRSWM/TB 251+ SVC FlashCopy Four-year Registration One-time charge per Terabyte 251+	0013
SVC FLC+4YRSWM/250TB 251+ SVC FlashCopy Four-year Registration One-time charge per 250 Terabyte 251+	0014
SVC RMC+4YRSWM/TB 1-12 SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 1-12	0015
SVC RMC+4YRSWM/TB 13-32 SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 13-32	0016
SVC RMC+4YRSWM/TB 33-64 SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 33-64	0017

SVC RMC+4YRSWM/TB 65-100 SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 65-100	0018
SVC RMC+4YRSWM/TB 101-250 SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 101-250	0019
SVC RMC+4YRSWM/TB 251+ SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 251+	0020
SVC RMC+4YRSWM/250TB 251+ SVC Metro/Global Mirror Four-year Registration One-time charge per 250 Terabyte 251+	0021

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

Five-year Registration

PID: 5639-SSH

Description	Program number	Feature number
SVC VZN+5YRSWM/TB 1-12 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 1-12	5639-SSH	0001
SVC VZN+5YRSWM/TB 13-32 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 13-32		0002
SVC VZN+5YRSWM/TB 33-64 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 33-64		0003
SVC VZN+5YRSWM/TB 65-100 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 65-100		0004
SVC VZN+5YRSWM/TB 101-250 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 101-250		0005
SVC VZN+5YRSWM/TB 251+ SVC Base Virtualization Five-year Registration One-time charge per Terabyte 251+		0006
SVC VZN+5YRSWM/250TB 251+ SVC Base Virtualization Five-year Registration		0007

One-time charge per 250 Terabyte 251+	
SVC FLC+5YRSWM/TB 1-12 SVC FlashCopy Five-year Registration One-time charge per Terabyte 1-12	0008
SVC FLC+5YRSWM/TB 13-32 SVC FlashCopy Five-year Registration One-time charge per Terabyte 13-32	0009
SVC FLC+5YRSWM/TB 33-64 SVC FlashCopy Five-year Registration One-time charge per Terabyte 33-64	0010
SVC FLC+5YRSWM/TB 65-100 SVC FlashCopy Five-year Registration One-time charge per Terabyte 65-100	0011
SVC FLC+5YRSWM/TB 101-250 SVC FlashCopy Five-year Registration One-time charge per Terabyte 101-250	0012
SVC FLC+5YRSWM/TB 251+ SVC FlashCopy Five-year Registration One-time charge per Terabyte 251+	0013
SVC FLC+5YRSWM/250TB 251+ SVC FlashCopy Five-year Registration One-time charge per 250 Terabyte 251+	0014
SVC RMC+5YRSWM/TB 1-12 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 1-12	0015
SVC RMC+5YRSWM/TB 13-32 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 13-32	0016
SVC RMC+5YRSWM/TB 33-64 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 33-64	0017
SVC RMC+5YRSWM/TB 65-100 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 65-100	0018
SVC RMC+5YRSWM/TB 101-250 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 101-250	0019

SVC RMC+5YRSWM/TB 251+ 0020
 SVC Metro/Global Mirror
 Five-year Registration
 One-time charge
 per Terabyte 251+

SVC RMC+5YRSWM/250TB 251+ 0021
 SVC Metro/Global Mirror
 Five-year Registration
 One-time charge
 per 250 Terabyte 251+

Program name: IBM System Storage
 SAN Volume Controller for XIV
 Software Maintenance

One-year No Charge Registration

PID: 5639-SXA

Description	Program number	Feature number
SVC 1Yr XIV 1TB Reg/SD SVC for XIV 1TB Software One-year NC Registration per Storage Device	5639-SXA	0001
SVC 1Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software One-year NC Registration per 250 Storage Devices		0002
SVC 1Yr XIV 2TB Reg/SD SVC for XIV 2TB Software One-year NC Registration per Storage Device		0003
SVC 1Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software One-year NC Registration per 250 Storage Devices		0004

Program name: IBM System Storage
 SAN Volume Controller for XIV
 Software Maintenance

Three-year Registration

PID: 5639-SXC

Description	Program number	Feature number
SVC 3Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Three-year Registration One-time charge per Storage Device	5639-SXC	0001
SVC 3Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Three-year Registration One-time charge per 250 Storage Devices		0002
SVC 3Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Three-year Registration One-time charge per Storage Device		0003

SVC 3Yr XIV 2TB Reg/250 SD 0004
 SVC for XIV 2TB Software
 Three-year Registration
 One-time charge
 per 250 Storage Devices

Program name: IBM System Storage
 SAN Volume Controller for XIV
 Software Maintenance

Two-year Registration

PID: 5639-SXF

Description	Program number	Feature number
SVC 2Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Two-year Registration One-time charge per Storage Device	5639-SXF	0001
SVC 2Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Two-year Registration One-time charge per 250 Storage Devices		0002
SVC 2Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Two-year Registration One-time charge per Storage Device		0003
SVC 2Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software Two-year Registration One-time charge per 250 Storage Devices		0004

Program name: IBM System Storage
 SAN Volume Controller for XIV
 Software Maintenance

Four-year Registration

PID: 5639-SXG

Description	Program number	Feature number
SVC 4Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Four-year Registration One-time charge per Storage Device	5639-SXG	0001
SVC 4Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Four-year Registration One-time charge per 250 Storage Devices		0002
SVC 4Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Four-year Registration One-time charge per Storage Device		0003
SVC 4Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software		0004

Four-year Registration
One-time charge
per 250 Storage Devices

Program name: IBM System Storage
SAN Volume Controller for XIV
Software Maintenance

Four-year Registration

PID: 5639-SXH

Description	Program number	Feature number
SVC 5Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Five-year Registration One-time charge per Storage Device	5639-SXH	0001
SVC 5Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Five-year Registration One-time charge per 250 Storage Devices		0002
SVC 5Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Five-year Registration One-time charge per Storage Device		0003
SVC 5Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software Five-year Registration One-time charge per 250 Storage Devices		0004

Charge metric

Program name	Part number or PID number	Charge metric
IBM System Storage SAN Volume Controller Storage Software V6.1	5639-VC6	Per terabyte
IBM System Storage SAN Volume Controller Storage Software V6.1 (for Passport Advantage)	5725-B99	Per terabyte
IBM System Storage SAN Volume Controller for XIV Software V6.1	5639-SX1	Per Storage Device

New orders for 5639-VC6

For new site SAN Volume Controller software V6 orders made via AAS, first order the cluster 2145-CF8 hardware for the initial cluster, then order the SAN Volume Controller Software 5639-VC6 site software license.

Software Maintenance

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

One-year Registration

PID: 5639-SST

Description	Program number	Feature number
SVC 1Yr VZN Reg/TB 1-12 SVC Base Virtualization One-year NC Registration per Terabyte 1-12	5639-SST	0001
SVC 1Yr VZN Reg/TB 13-32 SVC Base Virtualization One-year NC Registration per Terabyte 13-32		0002
SVC 1Yr VZN Reg/TB 33-64 SVC Base Virtualization One-year NC Registration per Terabyte 33-64		0003
SVC 1Yr VZN Reg/TB 65-100 SVC Base Virtualization One-year NC Registration per Terabyte 65-100		0004
SVC 1Yr VZN Reg/TB 101-250 SVC Base Virtualization One-year NC Registration per Terabyte 101-250		0005
SVC 1Yr VZN Reg/TB 251+ SVC Base Virtualization One-year NC Registration per Terabyte 251+		0006
SVC 1Yr VZN Reg/250TB 251+ SVC Base Virtualization One-year NC Registration per 250 Terabyte 251+		0007
SVC 1Yr FLC Reg/TB 1-12 SVC FlashCopy One-year NC Registration per Terabyte 1-12		0008
SVC 1Yr FLC Reg/TB 13-32 SVC FlashCopy One-year NC Registration per Terabyte 13-32		0009
SVC 1Yr FLC Reg/TB 33-64 SVC FlashCopy One-year NC Registration per Terabyte 33-64		0010
SVC 1Yr FLC Reg/TB 65-100 SVC FlashCopy One-year NC Registration per Terabyte 65-100		0011
SVC 1Yr FLC Reg/TB 101-250 SVC FlashCopy One-year NC Registration per Terabyte 101-250		0012
SVC 1Yr FLC Reg/TB 251+ SVC FlashCopy One-year NC Registration per Terabyte 251+		0013
SVC 1Yr FLC Reg/250TB 251+		0014

SVC FlashCopy One-year NC Registration per 250 Terabyte 251+	
SVC 1Yr RMC Reg/TB 1-12 SVC Metro/Global Mirror One-year NC Registration per Terabyte 1-12	0015
SVC 1Yr RMC Reg/TB 13-32 SVC Metro/Global Mirror One-year NC Registration per Terabyte 13-32	0016
SVC 1Yr RMC Reg/TB 33-64 SVC Metro/Global Mirror One-year NC Registration per Terabyte 33-64	0017
SVC 1Yr RMC Reg/TB 65-100 SVC Metro/Global Mirror One-year NC Registration per Terabyte 65-100	0018
SVC 1Yr RMC Reg/TB 101-250 SVC Metro/Global Mirror One-year NC Registration per Terabyte 101-250	0019
SVC 1Yr RMC Reg/TB 251+ SVC Metro/Global Mirror One-year NC Registration per Terabyte 251+	0020
SVC 1Yr RMC Reg/250TB 251+ SVC Metro/Global Mirror One-year NC Registration per 250 Terabyte 251+	0021

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

Three-year Registration

PID: 5639-SSC

Description	Program number	Feature number
SVC 3Yr VZN Reg/TB 1-12 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 1-12	5639-SSC	3106
SVC 3Yr VZN Reg/TB 13-32 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 13-32		3107
SVC 3Yr VZN Reg/TB 33-64 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 33-64		3108
SVC 3Yr VZN Reg/TB 65-100 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 65-100		3109

SVC 3Yr VZN Reg/TB 101-250 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 101-250	3110
SVC 3Yr VZN Reg/TB 251+ SVC Base Virtualization Three-year Registration One-time charge per Terabyte 251+	3111
SVC 3Yr VZN Reg/250TB 251+ SVC Base Virtualization Three-year Registration One-time charge per 250 Terabyte 251+	3112
SVC 3Yr FLC Reg/TB 1-12 SVC FlashCopy Three-year Registration One-time charge per Terabyte 1-12	3113
SVC 3Yr FLC Reg/TB 13-32 SVC FlashCopy Three-year Registration One-time charge per Terabyte 13-32	3114
SVC 3Yr FLC Reg/TB 33-64 SVC FlashCopy Three-year Registration One-time charge per Terabyte 33-64	3115
SVC 3Yr FLC Reg/TB 65-100 SVC FlashCopy Three-year Registration One-time charge per Terabyte 65-100	3116
SVC 3Yr FLC Reg/TB 101-250 SVC FlashCopy Three-year Registration One-time charge per Terabyte 101-250	3117
SVC 3Yr FLC Reg/TB 251+ SVC FlashCopy Three-year Registration One-time charge per Terabyte 251+	3118
SVC 3Yr FLC Reg/250TB 251+ SVC FlashCopy Three-year Registration One-time charge per 250 Terabyte 251+	3119
SVC 3Yr RMC Reg/TB 1-12 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 1-12	3120
SVC 3Yr RMC Reg/TB 13-32 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 13-32	3121
SVC 3Yr RMC Reg/TB 33-64	3122

SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 33-64	
SVC 3Yr RMC Reg/TB 65-100 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 65-100	3123
SVC 3Yr RMC Reg/TB 101-250 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 101-250	3124
SVC 3Yr RMC Reg/TB 251+ SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 251+	3125
SVC 3Yr RMC Reg/250TB 251+ SVC Metro/Global Mirror Three-year Registration One-time charge per 250 Terabyte 251+	3126

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

Two-year Registration

PID: 5639-SSF

Description	Program number	Feature number
SVC VZN+2YRSWM/TB 1-12 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 1-12	5639-SSF	0001
SVC VZN+2YRSWM/TB 13-32 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 13-32		0002
SVC VZN+2YRSWM/TB 33-64 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 33-64		0003
SVC VZN+2YRSWM/TB 65-100 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 65-100		0004
SVC VZN+2YRSWM/TB 101-250 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 101-250		0005
SVC VZN+2YRSWM/TB 251+ SVC Base Virtualization Two-year Registration		0006

One-time charge per Terabyte 251+	
SVC VZN+2YRSWM/250TB 251+ SVC Base Virtualization Two-year Registration One-time charge per 250 Terabyte 251+	0007
SVC FLC+2YRSWM/TB 1-12 SVC FlashCopy Two-year Registration One-time charge per Terabyte 1-12	0008
SVC FLC+2YRSWM/TB 13-32 SVC FlashCopy Two-year Registration One-time charge per Terabyte 13-32	0009
SVC FLC+2YRSWM/TB 33-64 SVC FlashCopy Two-year Registration One-time charge per Terabyte 33-64	0010
SVC FLC+2YRSWM/TB 65-100 SVC FlashCopy Two-year Registration One-time charge per Terabyte 65-100	0011
SVC FLC+2YRSWM/TB 101-250 SVC FlashCopy Two-year Registration One-time charge per Terabyte 101-250	0012
SVC FLC+2YRSWM/TB 251+ SVC FlashCopy Two-year Registration One-time charge per Terabyte 251+	0013
SVC FLC+2YRSWM/250TB 251+ SVC FlashCopy Two-year Registration One-time charge per 250 Terabyte 251+	0014
SVC RMC+2YRSWM/TB 1-12 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 1-12	0015
SVC RMC+2YRSWM/TB 13-32 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 13-32	0016
SVC RMC+2YRSWM/TB 33-64 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 33-64	0017
SVC RMC+2YRSWM/TB 65-100 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 65-100	0018

SVC RMC+2YRSWM/TB 101-250 0019
 SVC Metro/Global Mirror
 Two-year Registration
 One-time charge
 per Terabyte 101-250

SVC RMC+2YRSWM/TB 251+ 0020
 SVC Metro/Global Mirror
 Two-year Registration
 One-time charge
 per Terabyte 251+

SVC RMC+2YRSWM/250TB 251+ 0021
 SVC Metro/Global Mirror
 Two-year Registration
 One-time charge
 per 250 Terabyte 251+

Program name: IBM System Storage
 SAN Volume Controller
 Software Maintenance

Four-year Registration

PID: 5639-SSG

Description	Program number	Feature number
SVC VZN+4YRSWM/TB 1-12 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 1-12	5639-SSG	0001
SVC VZN+4YRSWM/TB 13-32 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 13-32		0002
SVC VZN+4YRSWM/TB 33-64 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 33-64		0003
SVC VZN+4YRSWM/TB 65-100 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 65-100		0004
SVC VZN+4YRSWM/TB 101-250 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 101-250		0005
SVC VZN+4YRSWM/TB 251+ SVC Base Virtualization Four-year Registration One-time charge per Terabyte 251+		0006
SVC VZN+4YRSWM/250TB 251+ SVC Base Virtualization Four-year Registration One-time charge per 250 Terabyte 251+		0007
SVC FLC+4YRSWM/TB 1-12		0008

SVC FlashCopy Four-year Registration One-time charge per Terabyte 1-12	
SVC FLC+4YRSWM/TB 13-32 SVC FlashCopy Four-year Registration One-time charge per Terabyte 13-32	0009
SVC FLC+4YRSWM/TB 33-64 SVC FlashCopy Four-year Registration One-time charge per Terabyte 33-64	0010
SVC FLC+4YRSWM/TB 65-100 SVC FlashCopy Four-year Registration One-time charge per Terabyte 65-100	0011
SVC FLC+4YRSWM/TB 101-250 SVC FlashCopy Four-year Registration One-time charge per Terabyte 101-250	0012
SVC FLC+4YRSWM/TB 251+ SVC FlashCopy Four-year Registration One-time charge per Terabyte 251+	0013
SVC FLC+4YRSWM/250TB 251+ SVC FlashCopy Four-year Registration One-time charge per 250 Terabyte 251+	0014
SVC RMC+4YRSWM/TB 1-12 SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 1-12	0015
SVC RMC+4YRSWM/TB 13-32 SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 13-32	0016
SVC RMC+4YRSWM/TB 33-64 SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 33-64	0017
SVC RMC+4YRSWM/TB 65-100 SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 65-100	0018
SVC RMC+4YRSWM/TB 101-250 SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 101-250	0019
SVC RMC+4YRSWM/TB 251+ SVC Metro/Global Mirror Four-year Registration	0020

One-time charge
per Terabyte 251+

SVC RMC+4YRSWM/250TB 251+ 0021
SVC Metro/Global Mirror
Four-year Registration
One-time charge
per 250 Terabyte 251+

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

Five-year Registration

PID: 5639-SSH

Description	Program number	Feature number
SVC VZN+5YRSWM/TB 1-12 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 1-12	5639-SSH	0001
SVC VZN+5YRSWM/TB 13-32 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 13-32		0002
SVC VZN+5YRSWM/TB 33-64 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 33-64		0003
SVC VZN+5YRSWM/TB 65-100 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 65-100		0004
SVC VZN+5YRSWM/TB 101-250 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 101-250		0005
SVC VZN+5YRSWM/TB 251+ SVC Base Virtualization Five-year Registration One-time charge per Terabyte 251+		0006
SVC VZN+5YRSWM/250TB 251+ SVC Base Virtualization Five-year Registration One-time charge per 250 Terabyte 251+		0007
SVC FLC+5YRSWM/TB 1-12 SVC FlashCopy Five-year Registration One-time charge per Terabyte 1-12		0008
SVC FLC+5YRSWM/TB 13-32 SVC FlashCopy Five-year Registration One-time charge per Terabyte 13-32		0009

SVC FLC+5YRSWM/TB 33-64 SVC FlashCopy Five-year Registration One-time charge per Terabyte 33-64	0010
SVC FLC+5YRSWM/TB 65-100 SVC FlashCopy Five-year Registration One-time charge per Terabyte 65-100	0011
SVC FLC+5YRSWM/TB 101-250 SVC FlashCopy Five-year Registration One-time charge per Terabyte 101-250	0012
SVC FLC+5YRSWM/TB 251+ SVC FlashCopy Five-year Registration One-time charge per Terabyte 251+	0013
SVC FLC+5YRSWM/250TB 251+ SVC FlashCopy Five-year Registration One-time charge per 250 Terabyte 251+	0014
SVC RMC+5YRSWM/TB 1-12 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 1-12	0015
SVC RMC+5YRSWM/TB 13-32 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 13-32	0016
SVC RMC+5YRSWM/TB 33-64 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 33-64	0017
SVC RMC+5YRSWM/TB 65-100 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 65-100	0018
SVC RMC+5YRSWM/TB 101-250 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 101-250	0019
SVC RMC+5YRSWM/TB 251+ SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 251+	0020
SVC RMC+5YRSWM/250TB 251+ SVC Metro/Global Mirror Five-year Registration One-time charge per 250 Terabyte 251+	0021

Program name: IBM System Storage
SAN Volume Controller for XIV
Software Maintenance

One-year No Charge Registration

PID: 5639-SXA

Description	Program number	Feature number
SVC 1Yr XIV 1TB Reg/SD SVC for XIV 1TB Software One-year NC Registration per Storage Device	5639-SXA	0001
SVC 1Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software One-year NC Registration per 250 Storage Devices		0002
SVC 1Yr XIV 2TB Reg/SD SVC for XIV 2TB Software One-year NC Registration per Storage Device		0003
SVC 1Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software One-year NC Registration per 250 Storage Devices		0004

Program name: IBM System Storage
SAN Volume Controller for XIV
Software Maintenance

Three-year Registration

PID: 5639-SXC

Description	Program number	Feature number
SVC 3Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Three-year Registration One-time charge per Storage Device	5639-SXC	0001
SVC 3Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Three-year Registration One-time charge per 250 Storage Devices		0002
SVC 3Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Three-year Registration One-time charge per Storage Device		0003
SVC 3Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software Three-year Registration One-time charge per 250 Storage Devices		0004

Program name: IBM System Storage
SAN Volume Controller for XIV
Software Maintenance

Two-year Registration

PID: 5639-SXF

Description	Program number	Feature number
SVC 2Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Two-year Registration One-time charge per Storage Device	5639-SXF	0001
SVC 2Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Two-year Registration One-time charge per 250 Storage Devices		0002
SVC 2Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Two-year Registration One-time charge per Storage Device		0003
SVC 2Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software Two-year Registration One-time charge per 250 Storage Devices		0004

Program name: IBM System Storage
SAN Volume Controller for XIV
Software Maintenance

Four-year Registration

PID: 5639-SXG

Description	Program number	Feature number
SVC 4Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Four-year Registration One-time charge per Storage Device	5639-SXG	0001
SVC 4Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Four-year Registration One-time charge per 250 Storage Devices		0002
SVC 4Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Four-year Registration One-time charge per Storage Device		0003
SVC 4Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software Four-year Registration One-time charge per 250 Storage Devices		0004

Program name: IBM System Storage
SAN Volume Controller for XIV
Software Maintenance

Four-year Registration

PID: 5639-SXH

Description	Program number	Feature number
SVC 5Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Five-year Registration One-time charge per Storage Device	5639-SXH	0001
SVC 5Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Five-year Registration One-time charge per 250 Storage Devices		0002
SVC 5Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Five-year Registration One-time charge per Storage Device		0003
SVC 5Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software Five-year Registration One-time charge per 250 Storage Devices		0004

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

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

This software license includes Software Subscription and Support (also referred to as Software Maintenance).

Agreement for Acquisition of Software Maintenance

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

License Information form number

LC23-5059 License Information for IBM System Storage SAN Volume Controller 6.1.0 & IBM Storwize V7000 6.1.0

GA76-0431 License Information for IBM System Storage SAN Volume Controller Storage Replication Adapter for VMware SRM

LC23-5097 License Information for IBM System Storage SAN Volume Controller Console Removal Tool*

LC23-5098 License Information for IBM System Storage SAN Volume Controller & IBM Storwize V7000 Information Center 6.1.0

* This license is for existing customers using the SAN Volume Controller Console who require removal of it.

On or near the planned availability date, the current License Information documents will be available for review on the IBM Software License Agreement Web site

<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).

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

Passport Advantage applies

Yes, and through the Passport Advantage Web site at

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

Usage restriction

Yes

SVC standard software (5639-VC6):

This program (5639-VC6) is licensed on a per-terabyte (with cumulative tiers) site-wide capacity basis. (Refer to the [Ordering information](#) section for information on charges for this program.) Users may only install this program on IBM System

Storage SAN Volume Controller 2145-CF8, 2145-8G4, 2145-8A4, 2145-8F4, and 2145-8F2 Storage Engines, or subsequent IBM replacements of these.

Customers are licensed to use this program only to manage storage capacity within a single site, and only for the amount of storage capacity within that site for which they have received proper authorization from IBM. Customers must obtain a separate license for any additional sites within which they want to use SAN Volume Controller Software V6 (5639-VC6) and obtain separate capacity authorizations for each such site. The 5639-VC6 site license subsumes and supersedes all individual 5639-VC1, 5639-VC2, 5639-VCT, 5639-VC3, 5639-VC4, and 5639-VC5 licenses previously in effect at that site.

A customer's right to use the IBM FlashCopy for SAN Volume Controller and Metro/Global Mirror for SAN Volume Controller features of this program is also limited to the amount of authorizations obtained from IBM. The authorizations for FlashCopy and for Metro/Global Mirror cannot exceed the total capacity authorization for the amount of managed storage on all clusters within the site. Use of FlashCopy features requires license authorizations for only the FlashCopy sources, not the targets.

Use of Metro/Global Mirror features requires license authorizations for both the Metro/Global Mirror source and target capacities in use. Use of the Metro/Global Mirror feature between clusters located in different sites requires separate authorization for each site.

This program is only supported for use with host servers, storage sub-systems, and SAN configurations identified by IBM as being supported for attachment to the IBM System Storage SAN Volume Controller. This program is provided together with code provided under separate license agreements, including, but not limited to, open source license agreements.

Software Subscription and Support (Software Maintenance) 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 (Software Maintenance) 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 (Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support (Software Maintenance) can be extended by the purchase of a renewal option.

While your Software Subscription and Support (Software Maintenance) 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 (Software Maintenance) 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 (Software Maintenance) 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. For additional information, refer to Changes to Distributed Software Products Model for Products Outside Passport Advantage Software Announcement [201-201](#), dated July 10, 2001.

Variable charges apply

No

Educational allowance available

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

Prices

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>

Passport Advantage

For Passport Advantage information and charges, contact your IBM representative or authorized IBM Business Partner.

Additional information is also available on the following Passport Advantage Web site

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

Information on charges is available at

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

Choose the option entitled Purchase/upgrade tools.

Program name: IBM System Storage
SAN Volume Controller
Storage Software V6
PID: 5639-VC6

Use-based OTC
with One-year
Software Maintenance

Description	Program number	Feature number
SVC VZN+1YRSWM/TB 1-12 SVC Base Virtualization Per Terabyte 1-12 with 1 Year SW Maintenance	5639-VC6	0001
SVC VZN+1YRSWM/TB 13-32 SVC Base Virtualization Per Terabyte 13-32 with 1 Year SW Maintenance		0002
SVC VZN+1YRSWM/TB 33-64		0003

SVC Base Virtualization Per Terabyte 33-64 with 1 Year SW Maintenance	
SVC VZN+1YRSWM/TB 65-100 SVC Base Virtualization Per Terabyte 65-100 with 1 Year SW Maintenance	0004
SVC VZN+1YRSWM/TB 101-250 SVC Base Virtualization Per Terabyte 101-250 with 1 Year SW Maintenance	0005
SVC VZN+1YRSWM/TB 251+ SVC Base Virtualization Per Terabyte 251+ with 1 Year SW Maintenance	0006
SVC VZN+1YRSWM/250TB 251+ SVC Base Virtualization Per 250 Terabyte 251+ with 1 Year SW Maintenance	0007
SVC FLC+1YRSWM/TB 1-12 FlashCopy for SVC Per Terabyte 1-12 with 1 Year SW Maintenance	0008
SVC FLC+1YRSWM/TB 13-32 FlashCopy for SVC Per Terabyte 13-32 with 1 Year SW Maintenance	0009
SVC FLC+1YRSWM/TB 33-64 FlashCopy for SVC Per Terabyte 33-64 with 1 Year SW Maintenance	0010
SVC FLC+1YRSWM/TB 65-100 FlashCopy for SVC Per Terabyte 65-100 with 1 Year SW Maintenance	0011
SVC FLC+1YRSWM/TB 101-250 FlashCopy for SVC Per Terabyte 101-250 with 1 Year SW Maintenance	0012
SVC FLC+1YRSWM/TB 251+ FlashCopy for SVC Per Terabyte 251+ with 1 Year SW Maintenance	0013
SVC FLC+1YRSWM/250TB 251+ FlashCopy for SVC Per 250 Terabyte 251+ with 1 Year SW Maintenance	0014
SVC RMC+1YRSWM/TB 1-12 Metro/Global Mirror for SVC Per Terabyte 1-12 with 1 Year SW Maintenance	0015
SVC RMC+1YRSWM/TB 13-32 Metro/Global Mirror for SVC Per Terabyte 13-32 with 1 Year SW Maintenance	0016
SVC RMC+1YRSWM/TB 33-64 Metro/Global Mirror for SVC Per Terabyte 33-64 with 1 Year SW Maintenance	0017

SVC RMC+1YRSWM/TB 65-100 Metro/Global Mirror for SVC Per Terabyte 65-100 with 1 Year SW Maintenance	0018
SVC RMC+1YRSWM/TB 101-250 Metro/Global Mirror for SVC Per Terabyte 101-250 with 1 Year SW Maintenance	0019
SVC RMC+1YRSWM/TB 251+ Metro/Global Mirror for SVC Per Terabyte 251+ with 1 Year SW Maintenance	0020
SVC RMC+1YRSWM/250TB 251+ Metro/Global Mirror for SVC Per 250 Terabyte 251+ with 1 Year SW Maintenance	0021
No-Charge Media Supply	5809
No-Charge Preload	5005

Program name: IBM System Storage
SAN Volume Controller for XIV
Storage Software V6
PID: 5639-SX1

Use-based OTC
with One-year
Software Maintenance

Description	Program number	Feature number
SVC XIV 1TB+1YRSWM/SD SVC for XIV 1TB Software Per Storage Device with 1 Year SW Maintenance	5639-SX1	0001
SVC XIV 1TB+1YRSWM/250 SD SVC for XIV 1TB Software Per 250 Storage Devices with 1 Year SW Maintenance		0002
SVC XIV 2TB+1YRSWM/SD SVC for XIV 2TB Software Per Storage Device with 1 Year SW Maintenance		0003
SVC XIV 2TB+1YRSWM/250 SD SVC for XIV 2TB Software Per 250 Storage Devices with 1 Year SW Maintenance		0004
No-Charge Media Supply		5809
No-Charge Preload		5005

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

Three-year Registration

PID: 5639-SSC

Description	Program number	Feature number
SVC 3Yr VZN Reg/TB 1-12 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 1-12	5639-SSC	3106
SVC 3Yr VZN Reg/TB 13-32 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 13-32		3107
SVC 3Yr VZN Reg/TB 33-64 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 33-64		3108
SVC 3Yr VZN Reg/TB 65-100 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 65-100		3109
SVC 3Yr VZN Reg/TB 101-250 SVC Base Virtualization Three-year Registration One-time charge per Terabyte 101-250		3110
SVC 3Yr VZN Reg/TB 251+ SVC Base Virtualization Three-year Registration One-time charge per Terabyte 251+		3111
SVC 3Yr VZN Reg/250TB 251+ SVC Base Virtualization Three-year Registration One-time charge per 250 Terabyte 251+		3112
SVC 3Yr FLC Reg/TB 1-12 SVC FlashCopy Three-year Registration One-time charge per Terabyte 1-12		3113
SVC 3Yr FLC Reg/TB 13-32 SVC FlashCopy Three-year Registration One-time charge per Terabyte 13-32		3114
SVC 3Yr FLC Reg/TB 33-64 SVC FlashCopy Three-year Registration One-time charge per Terabyte 33-64		3115
SVC 3Yr FLC Reg/TB 65-100 SVC FlashCopy Three-year Registration One-time charge per Terabyte 65-100		3116
SVC 3Yr FLC Reg/TB 101-250 SVC FlashCopy Three-year Registration One-time charge per Terabyte 101-250		3117

SVC 3Yr FLC Reg/TB 251+ SVC FlashCopy Three-year Registration One-time charge per Terabyte 251+	3118
SVC 3Yr FLC Reg/250TB 251+ SVC FlashCopy Three-year Registration One-time charge per 250 Terabyte 251+	3119
SVC 3Yr RMC Reg/TB 1-12 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 1-12	3120
SVC 3Yr RMC Reg/TB 13-32 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 13-32	3121
SVC 3Yr RMC Reg/TB 33-64 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 33-64	3122
SVC 3Yr RMC Reg/TB 65-100 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 65-100	3123
SVC 3Yr RMC Reg/TB 101-250 SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 101-250	3124
SVC 3Yr RMC Reg/TB 251+ SVC Metro/Global Mirror Three-year Registration One-time charge per Terabyte 251+	3125
SVC 3Yr RMC Reg/250TB 251+ SVC Metro/Global Mirror Three-year Registration One-time charge per 250 Terabyte 251+	3126

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

Two-year Registration

PID: 5639-SSF

Description	Program number	Feature number
SVC VZN+2YRSWM/TB 1-12 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 1-12	5639-SSF	0001

SVC VZN+2YRSWM/TB 13-32 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 13-32	0002
SVC VZN+2YRSWM/TB 33-64 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 33-64	0003
SVC VZN+2YRSWM/TB 65-100 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 65-100	0004
SVC VZN+2YRSWM/TB 101-250 SVC Base Virtualization Two-year Registration One-time charge per Terabyte 101-250	0005
SVC VZN+2YRSWM/TB 251+ SVC Base Virtualization Two-year Registration One-time charge per Terabyte 251+	0006
SVC VZN+2YRSWM/250TB 251+ SVC Base Virtualization Two-year Registration One-time charge per 250 Terabyte 251+	0007
SVC FLC+2YRSWM/TB 1-12 SVC FlashCopy Two-year Registration One-time charge per Terabyte 1-12	0008
SVC FLC+2YRSWM/TB 13-32 SVC FlashCopy Two-year Registration One-time charge per Terabyte 13-32	0009
SVC FLC+2YRSWM/TB 33-64 SVC FlashCopy Two-year Registration One-time charge per Terabyte 33-64	0010
SVC FLC+2YRSWM/TB 65-100 SVC FlashCopy Two-year Registration One-time charge per Terabyte 65-100	0011
SVC FLC+2YRSWM/TB 101-250 SVC FlashCopy Two-year Registration One-time charge per Terabyte 101-250	0012
SVC FLC+2YRSWM/TB 251+ SVC FlashCopy Two-year Registration One-time charge per Terabyte 251+	0013
SVC FLC+2YRSWM/250TB 251+ SVC FlashCopy	0014

Two-year Registration One-time charge per 250 Terabyte 251+	
SVC RMC+2YRSWM/TB 1-12 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 1-12	0015
SVC RMC+2YRSWM/TB 13-32 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 13-32	0016
SVC RMC+2YRSWM/TB 33-64 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 33-64	0017
SVC RMC+2YRSWM/TB 65-100 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 65-100	0018
SVC RMC+2YRSWM/TB 101-250 SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 101-250	0019
SVC RMC+2YRSWM/TB 251+ SVC Metro/Global Mirror Two-year Registration One-time charge per Terabyte 251+	0020
SVC RMC+2YRSWM/250TB 251+ SVC Metro/Global Mirror Two-year Registration One-time charge per 250 Terabyte 251+	0021

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

Four-year Registration

PID: 5639-SSG

Description	Program number	Feature number
SVC VZN+4YRSWM/TB 1-12 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 1-12	5639-SSG	0001
SVC VZN+4YRSWM/TB 13-32 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 13-32		0002
SVC VZN+4YRSWM/TB 33-64 SVC Base Virtualization Four-year Registration		0003

One-time charge per Terabyte 33-64	
SVC VZN+4YRSWM/TB 65-100 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 65-100	0004
SVC VZN+4YRSWM/TB 101-250 SVC Base Virtualization Four-year Registration One-time charge per Terabyte 101-250	0005
SVC VZN+4YRSWM/TB 251+ SVC Base Virtualization Four-year Registration One-time charge per Terabyte 251+	0006
SVC VZN+4YRSWM/250TB 251+ SVC Base Virtualization Four-year Registration One-time charge per 250 Terabyte 251+	0007
SVC FLC+4YRSWM/TB 1-12 SVC FlashCopy Four-year Registration One-time charge per Terabyte 1-12	0008
SVC FLC+4YRSWM/TB 13-32 SVC FlashCopy Four-year Registration One-time charge per Terabyte 13-32	0009
SVC FLC+4YRSWM/TB 33-64 SVC FlashCopy Four-year Registration One-time charge per Terabyte 33-64	0010
SVC FLC+4YRSWM/TB 65-100 SVC FlashCopy Four-year Registration One-time charge per Terabyte 65-100	0011
SVC FLC+4YRSWM/TB 101-250 SVC FlashCopy Four-year Registration One-time charge per Terabyte 101-250	0012
SVC FLC+4YRSWM/TB 251+ SVC FlashCopy Four-year Registration One-time charge per Terabyte 251+	0013
SVC FLC+4YRSWM/250TB 251+ SVC FlashCopy Four-year Registration One-time charge per 250 Terabyte 251+	0014
SVC RMC+4YRSWM/TB 1-12 SVC Metro/Global Mirror Four-year Registration One-time charge per Terabyte 1-12	0015

SVC RMC+4YRSWM/TB 13-32 0016
 SVC Metro/Global Mirror
 Four-year Registration
 One-time charge
 per Terabyte 13-32

SVC RMC+4YRSWM/TB 33-64 0017
 SVC Metro/Global Mirror
 Four-year Registration
 One-time charge
 per Terabyte 33-64

SVC RMC+4YRSWM/TB 65-100 0018
 SVC Metro/Global Mirror
 Four-year Registration
 One-time charge
 per Terabyte 65-100

SVC RMC+4YRSWM/TB 101-250 0019
 SVC Metro/Global Mirror
 Four-year Registration
 One-time charge
 per Terabyte 101-250

SVC RMC+4YRSWM/TB 251+ 0020
 SVC Metro/Global Mirror
 Four-year Registration
 One-time charge
 per Terabyte 251+

SVC RMC+4YRSWM/250TB 251+ 0021
 SVC Metro/Global Mirror
 Four-year Registration
 One-time charge
 per 250 Terabyte 251+

Program name: IBM System Storage
 SAN Volume Controller
 Software Maintenance

Five-year Registration

PID: 5639-SSH

Description	Program number	Feature number
SVC VZN+5YRSWM/TB 1-12 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 1-12	5639-SSH	0001
SVC VZN+5YRSWM/TB 13-32 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 13-32		0002
SVC VZN+5YRSWM/TB 33-64 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 33-64		0003
SVC VZN+5YRSWM/TB 65-100 SVC Base Virtualization Five-year Registration One-time charge per Terabyte 65-100		0004
SVC VZN+5YRSWM/TB 101-250		0005

SVC Base Virtualization Five-year Registration One-time charge per Terabyte 101-250	
SVC VZN+5YRSWM/TB 251+ SVC Base Virtualization Five-year Registration One-time charge per Terabyte 251+	0006
SVC VZN+5YRSWM/250TB 251+ SVC Base Virtualization Five-year Registration One-time charge per 250 Terabyte 251+	0007
SVC FLC+5YRSWM/TB 1-12 SVC FlashCopy Five-year Registration One-time charge per Terabyte 1-12	0008
SVC FLC+5YRSWM/TB 13-32 SVC FlashCopy Five-year Registration One-time charge per Terabyte 13-32	0009
SVC FLC+5YRSWM/TB 33-64 SVC FlashCopy Five-year Registration One-time charge per Terabyte 33-64	0010
SVC FLC+5YRSWM/TB 65-100 SVC FlashCopy Five-year Registration One-time charge per Terabyte 65-100	0011
SVC FLC+5YRSWM/TB 101-250 SVC FlashCopy Five-year Registration One-time charge per Terabyte 101-250	0012
SVC FLC+5YRSWM/TB 251+ SVC FlashCopy Five-year Registration One-time charge per Terabyte 251+	0013
SVC FLC+5YRSWM/250TB 251+ SVC FlashCopy Five-year Registration One-time charge per 250 Terabyte 251+	0014
SVC RMC+5YRSWM/TB 1-12 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 1-12	0015
SVC RMC+5YRSWM/TB 13-32 SVC Metro/Global Mirror Five-year Registration One-time charge per Terabyte 13-32	0016
SVC RMC+5YRSWM/TB 33-64 SVC Metro/Global Mirror Five-year Registration	0017

One-time charge
per Terabyte 33-64

SVC RMC+5YRSWM/TB 65-100 0018
SVC Metro/Global Mirror
Five-year Registration
One-time charge
per Terabyte 65-100

SVC RMC+5YRSWM/TB 101-250 0019
SVC Metro/Global Mirror
Five-year Registration
One-time charge
per Terabyte 101-250

SVC RMC+5YRSWM/TB 251+ 0020
SVC Metro/Global Mirror
Five-year Registration
One-time charge
per Terabyte 251+

SVC RMC+5YRSWM/250TB 251+ 0021
SVC Metro/Global Mirror
Five-year Registration
One-time charge
per 250 Terabyte 251+

Program name: IBM System Storage
SAN Volume Controller
Software Maintenance

One-year No Charge Registration

PID: 5639-SST

Description	Program number	Feature number
SVC 1Yr VZN Reg/TB 1-12 SVC Base Virtualization One-year NC Registration per Terabyte 1-12	5639-SST	0001
SVC 1Yr VZN Reg/TB 13-32 SVC Base Virtualization One-year NC Registration per Terabyte 13-32		0002
SVC 1Yr VZN Reg/TB 33-64 SVC Base Virtualization One-year NC Registration per Terabyte 33-64		0003
SVC 1Yr VZN Reg/TB 65-100 SVC Base Virtualization One-year NC Registration per Terabyte 65-100		0004
SVC 1Yr VZN Reg/TB 101-250 SVC Base Virtualization One-year NC Registration per Terabyte 101-250		0005
SVC 1Yr VZN Reg/TB 251+ SVC Base Virtualization One-year NC Registration per Terabyte 251+		0006
SVC 1Yr VZN Reg/250TB 251+ SVC Base Virtualization One-year NC Registration per 250 Terabyte 251+		0007

SVC 1Yr FLC Reg/TB 1-12 SVC FlashCopy One-year NC Registration per Terabyte 1-12	0008
SVC 1Yr FLC Reg/TB 13-32 SVC FlashCopy One-year NC Registration per Terabyte 13-32	0009
SVC 1Yr FLC Reg/TB 33-64 SVC FlashCopy One-year NC Registration per Terabyte 33-64	0010
SVC 1Yr FLC Reg/TB 65-100 SVC FlashCopy One-year NC Registration per Terabyte 65-100	0011
SVC 1Yr FLC Reg/TB 101-250 SVC FlashCopy One-year NC Registration per Terabyte 101-250	0012
SVC 1Yr FLC Reg/TB 251+ SVC FlashCopy One-year NC Registration per Terabyte 251+	0013
SVC 1Yr FLC Reg/250TB 251+ SVC FlashCopy One-year NC Registration per 250 Terabyte 251+	0014
SVC 1Yr RMC Reg/TB 1-12 SVC Metro/Global Mirror One-year NC Registration per Terabyte 1-12	0015
SVC 1Yr RMC Reg/TB 13-32 SVC Metro/Global Mirror One-year NC Registration per Terabyte 13-32	0016
SVC 1Yr RMC Reg/TB 33-64 SVC Metro/Global Mirror One-year NC Registration per Terabyte 33-64	0017
SVC 1Yr RMC Reg/TB 65-100 SVC Metro/Global Mirror One-year NC Registration per Terabyte 65-100	0018
SVC 1Yr RMC Reg/TB 101-250 SVC Metro/Global Mirror One-year NC Registration per Terabyte 101-250	0019
SVC 1Yr RMC Reg/TB 251+ SVC Metro/Global Mirror One-year NC Registration per Terabyte 251+	0020
SVC 1Yr RMC Reg/250TB 251+ SVC Metro/Global Mirror One-year NC Registration per 250 Terabyte 251+	0021

Program name: IBM System Storage
SAN Volume Controller for XIV

Software Maintenance

One-year No Charge Registration

PID: 5639-SXA

Description	Program number	Feature number
SVC 1Yr XIV 1TB Reg/SD SVC for XIV 1TB Software One-year NC Registration per Storage Device	5639-SXA	0001
SVC 1Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software One-year NC Registration per 250 Storage Devices		0002
SVC 1Yr XIV 2TB Reg/SD SVC for XIV 2TB Software One-year NC Registration per Storage Device		0003
SVC 1Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software One-year NC Registration per 250 Storage Devices		0004

Program name: IBM System Storage
SAN Volume Controller for XIV
Software Maintenance

Three-year Registration

PID: 5639-SXC

Description	Program number	Feature number
SVC 3Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Three-year Registration One-time charge per Storage Device	5639-SXC	0001
SVC 3Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Three-year Registration One-time charge per 250 Storage Devices		0002
SVC 3Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Three-year Registration One-time charge per Storage Device		0003
SVC 3Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software Three-year Registration One-time charge per 250 Storage Devices		0004

Program name: IBM System Storage
SAN Volume Controller for XIV
Software Maintenance

Two-year Registration

PID: 5639-SXF

Description	Program number	Feature number
SVC 2Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Two-year Registration One-time charge per Storage Device	5639-SXF	0001
SVC 2Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Two-year Registration One-time charge per 250 Storage Devices		0002
SVC 2Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Two-year Registration One-time charge per Storage Device		0003
SVC 2Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software Two-year Registration One-time charge per 250 Storage Devices		0004
Program name: IBM System Storage SAN Volume Controller for XIV Software Maintenance		
Four-year Registration		
PID: 5639-SXG		

Description	Program number	Feature number
SVC 4Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Four-year Registration One-time charge per Storage Device	5639-SXG	0001
SVC 4Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Four-year Registration One-time charge per 250 Storage Devices		0002
SVC 4Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Four-year Registration One-time charge per Storage Device		0003
SVC 4Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software Four-year Registration One-time charge per 250 Storage Devices		0004
Program name: IBM System Storage SAN Volume Controller for XIV Software Maintenance		
Four-year Registration		
PID: 5639-SXH		

Program Feature

Description	number	number
SVC 5Yr XIV 1TB Reg/SD SVC for XIV 1TB Software Five-year Registration One-time charge per Storage Device	5639-SXH	0001
SVC 5Yr XIV 1TB Reg/250 SD SVC for XIV 1TB Software Five-year Registration One-time charge per 250 Storage Devices		0002
SVC 5Yr XIV 2TB Reg/SD SVC for XIV 2TB Software Five-year Registration One-time charge per Storage Device		0003
SVC 5Yr XIV 2TB Reg/250 SD SVC for XIV 2TB Software Five-year Registration One-time charge per 250 Storage Devices		0004

MT/ M	FC	Description	List price
5639VC6	0001	SVC VZN +1YRSWM/TB 1-12	\$5,150
5639VC6	0002	SVC VZN +1YRSWM/TB 13-32	\$4,120
5639VC6	0003	SVC VZN +1YRSWM/TB 33-64	\$3,090
5639VC6	0004	SVC VZN +1YRSWM/TB 65-100	\$2,060
5639VC6	0005	SVC VZN +1YRSWM/TB 101-250	\$1,545
5639VC6	0006	SVC VZN +1YRSWM/TB 251+	\$1,030
5639VC6	0007	SVC VZN +1YRSWM/TB PER 250	\$257,500
5639VC6	0008	SVC FLC +1YRSWM/TB 1-12	\$5,150
5639VC6	0009	SVC FLC +1YRSWM/TB 13-32	\$4,120
5639VC6	0010	SVC FLC +1YRSWM/TB 33-64	\$3,090
5639VC6	0011	SVC FLC +1YRSWM/TB 65-100	\$2,060
5639VC6	0012	SVC FLC +1YRSWM/TB 101-250	\$1,545
5639VC6	0013	SVC FLC +1YRSWM/TB 251+	\$1,030
5639VC6	0014	SVC FLC +1YRSWM/TB PER 250	\$257,500
5639VC6	0015	SVC M/GM +1YRSWM/TB 1-12	\$7,725

5639VC6	0016	SVC M/GM +1YRSWM/TB 13-32	\$6,180
5639VC6	0017	SVC M/GM +1YRSWM/TB 33-64	\$4,635
5639VC6	0018	SVC M/GM +1YRSWM/TB 65-100	\$3,090
5639VC6	0019	SVC M/GM +1YRSWM/TB 101-250	\$2,317
5639VC6	0020	SVC M/GM +1YRSWM/TB 251+	\$1,545
5639VC6	0021	SVC M/GM +1YRSWM/TB PER 250	\$386,250
5639SSC	3106	SVC VZN 3YRREG/ TB 1-12	\$2,060
5639SSC	3107	SVC VZN 3YRREG/ TB 13-32	\$1,648
5639SSC	3108	SVC VZN 3YRREG/ TB 33-64	\$1,236
5639SSC	3109	SVC VZN 3YRREG/ TB 65-100	\$824
5639SSC	3110	SVC VZN 3YRREG/ TB 101-250	\$618
5639SSC	3111	SVC VZN 3YRREG/ TB 251+	\$412
5639SSC	3112	SVC VZN 3YRREG/ TB PER 250	\$103,000
5639SSC	3113	SVC FLC 3YRREG/ TB 1-12	\$2,060
5639SSC	3114	SVC FLC 3YRREG/ TB 13-32	\$1,648
5639SSC	3115	SVC FLC 3YRREG/ TB 33-64	\$1,236
5639SSC	3116	SVC FLC 3YRREG/ TB 65-100	\$824
5639SSC	3117	SVC FLC 3YRREG/ TB 101-250	\$618
5639SSC	3118	SVC FLC 3YRREG/ TB 251+	\$412
5639SSC	3119	SVC FLC 3YRREG/ TB PER 250	\$103,000
5639SSC	3120	SVC MRM 3YRREG/ TB 1-12	\$3,090
5639SSC	3121	SVC MRM 3YRREG/ TB 13-32	\$2,472
5639SSC	3122	SVC MRM 3YRREG/ TB 33-64	\$1,854
5639SSC	3123	SVC MRM 3YRREG/ TB 65-100	\$1,236
5639SSC	3124	SVC MRM 3YRREG/ TB 101-250	\$927
5639SSC	3125	SVC MRM 3YRREG/ TB 251+	\$618
5639SSC	3126	SVC MRM 3YRREG/ TB PER 250	\$154,500
5639SSF	0001	SVC VZN 2YR REG/ TB 1-12	\$1,030
5639SSF	0002	SVC VZN 2YR REG/ TB 13-32	\$824
5639SSF	0003	SVC VZN 2YR REG/ TB 33-64	\$618
5639SSF	0004	SVC VZN 2YR REG/ TB 65-100	\$412

5639SSF	0005	SVC VZN 2YR REG/ TB 101-250	\$309
5639SSF	0006	SVC VZN 2YR REG/ TB 251+	\$206
5639SSF	0007	SVC VZN 2YR REG/250TB 251+	\$51,500
5639SSF	0008	SVC FLC 2YR REG/ TB 1-12	\$1,030
5639SSF	0009	SVC FLC 2YR REG/ TB 13-32	\$824
5639SSF	0010	SVC FLC 2YR REG/ TB 33-64	\$618
5639SSF	0011	SVC FLC 2YR REG/ TB 65-100	\$412
5639SSF	0012	SVC FLC 2YR REG/ TB 101-250	\$309
5639SSF	0013	SVC FLC 2YR REG/ TB 251+	\$206
5639SSF	0014	SVC FLC 2YR REG/250TB 251+	\$51,500
5639SSF	0015	SVC MGM 2YR REG/ TB 1-12	\$1,545
5639SSF	0016	SVC MGM 2YR REG/ TB 13-32	\$1,236
5639SSF	0017	SVC MGM 2YR REG/ TB 33-64	\$927
5639SSF	0018	SVC MGM 2YR REG/ TB 65-100	\$618
5639SSF	0019	SVC MGM 2YR REG/ TB 101-250	\$463
5639SSF	0020	SVC MGM 2YR REG/ TB 251+	\$309
5639SSF	0021	SVC MGM 2YR REG/250TB 251+	\$77,250
5639SSG	0001	SVC VZN 4YR REG/ TB 1-12	\$3,090
5639SSG	0002	SVC VZN 4YR REG/ TB 13-32	\$2,472
5639SSG	0003	SVC VZN 4YR REG/ TB 33-64	\$1,854
5639SSG	0004	SVC VZN 4YR REG/ TB 65-100	\$1,236
5639SSG	0005	SVC VZN 4YR REG/ TB 101-250	\$927
5639SSG	0006	SVC VZN 4YR REG/ TB 251+	\$618
5639SSG	0007	SVC VZN 4YR REG/250TB 251+	\$154,500
5639SSG	0008	SVC FLC 4YR REG/ TB 1-12	\$3,090
5639SSG	0009	SVC FLC 4YR REG/ TB 13-32	\$2,472
5639SSG	0010	SVC FLC 4YR REG/ TB 33-64	\$1,854
5639SSG	0011	SVC FLC 4YR REG/ TB 65-100	\$1,236
5639SSG	0012	SVC FLC 4YR REG/ TB 101-250	\$927
5639SSG	0013	SVC FLC 4YR REG/ TB 251+	\$618
5639SSG	0014	SVC FLC 4YR REG/250TB 251+	\$154,500
5639SSG	0015	SVC MGM 4YR REG/ TB 1-12	\$4,635
5639SSG	0016	SVC MGM 4YR REG/ TB 13-32	\$3,708

5639SSG	0017	SVC MGM 4YR REG/ TB 33-64	\$2,781
5639SSG	0018	SVC MGM 4YR REG/ TB 65-100	\$1,854
5639SSG	0019	SVC MGM 4YR REG/ TB 101-250	\$1,390
5639SSG	0020	SVC MGM 4YR REG/ TB 251+	\$927
5639SSG	0021	SVC MGM 4YR REG/250TB 251+	\$231,750
5639SSH	0001	SVC VZN 5YR REG/ TB 1-12	\$4,120
5639SSH	0002	SVC VZN 5YR REG/ TB 13-32	\$3,296
5639SSH	0003	SVC VZN 5YR REG/ TB 33-64	\$2,472
5639SSH	0004	SVC VZN 5YR REG/ TB 65-100	\$1,648
5639SSH	0005	SVC VZN 5YR REG/ TB 101-250	\$1,236
5639SSH	0006	SVC VZN 5YR REG/ TB 251+	\$824
5639SSH	0007	SVC VZN 5YR REG/250TB 251+	\$206,000
5639SSH	0008	SVC FLC 5YR REG/ TB 1-12	\$4,120
5639SSH	0009	SVC FLC 5YR REG/ TB 13-32	\$3,296
5639SSH	0010	SVC FLC 5YR REG/ TB 33-64	\$2,472
5639SSH	0011	SVC FLC 5YR REG/ TB 65-100	\$1,648
5639SSH	0012	SVC FLC 5YR REG/ TB 101-250	\$1,236
5639SSH	0013	SVC FLC 5YR REG/ TB 251+	\$824
5639SSH	0014	SVC FLC 5YR REG/250TB 251+	\$206,000
5639SSH	0015	SVC MGM 5YR REG/ TB 1-12	\$6,180
5639SSH	0016	SVC MGM 5YR REG/ TB 13-32	\$4,944
5639SSH	0017	SVC MGM 5YR REG/ TB 33-64	\$3,708
5639SSH	0018	SVC MGM 5YR REG/ TB 65-100	\$2,472
5639SSH	0019	SVC MGM 5YR REG/ TB 101-250	\$1,854
5639SSH	0020	SVC MGM 5YR REG/ TB 250+	\$1,236
5639SSH	0021	SVC MGM 5YR REG/250TB 251+	\$309,000
5639SX1	0001	SVC for XIV 1TB	\$19,000
5639SX1	0002	SVC for XIV 1TB per 250 TB	\$4,750,000
5639SX1	0003	SVC for XIV 2TB	\$38,000
5639SX1	0004	SVC for XIV 2TB per 250 TB	\$9,500,000
5639SX1	5809	No Charge Media	\$0
5639SXA	0001	1 Yr 1TB NC Reg	\$0
5639SXA	0002	1 Yr 1TB NC Reg per 250	\$0
5639SXA	0003	1 Yr 2TB NC Reg	\$0
5639SXA	0004	1 Yr 2TB NC Reg per 250	\$0

5639SXC	0001	3 Yr 1TB Reg	\$7,600
5639SXC	0002	3 Yr 1TB Reg per 250	\$1,900,000
5639SXC	0003	3 Yr 2TB Reg	\$15,200
5639SXC	0004	3 Yr 2TB Reg per 250	\$3,800,000
5639SXF	0001	2 Yr 1TB Reg	\$3,800
5639SXF	0002	2 Yr 1TB Reg per 250	\$950,000
5639SXF	0003	2 Yr 2TB Reg	\$7,600
5639SXF	0004	2 Yr 2TB Reg per 250	\$1,900,000
5639SXG	0001	4 Yr 1TB Reg	\$11,400
5639SXG	0002	4 Yr 1TB Reg per 250	\$2,850,000
5639SXG	0003	4 Yr 2TB Reg	\$22,800
5639SXG	0004	4 Yr 2TB Reg per 250	\$5,700,000
5639SSH	0001	5 Yr 1TB Reg	\$15,200
5639SSH	0002	5 Yr 1TB Reg per 250	\$3,800,000
5639SSH	0003	5 Yr 2TB Reg	\$30,400
5639SSH	0004	5 Yr 2TB Reg per 250	\$7,600,000
5639SST	0001	1Yr NC VZN Reg	\$0
5639SST	0002	1Yr NC VZN Reg	\$0
5639SST	0003	1Yr NC VZN Reg	\$0
5639SST	0004	1Yr NC VZN Reg	\$0
5639SST	0005	1Yr NC VZN Reg	\$0
5639SST	0006	1Yr NC VZN Reg	\$0
5639SST	0007	1Yr NC VZN Reg	\$0
5639SST	0008	1Yr NC FLC Reg	\$0
5639SST	0009	1Yr NC FLC Reg	\$0
5639SST	0010	1Yr NC FLC Reg	\$0
5639SST	0011	1Yr NC FLC Reg	\$0
5639SST	0012	1Yr NC FLC Reg	\$0
5639SST	0013	1Yr NC FLC Reg	\$0
5639SST	0014	1Yr NC FLC Reg	\$0
5639SST	0015	1Yr NC MGM Reg	\$0
5639SST	0016	1Yr NC MGM Reg	\$0
5639SST	0017	1Yr NC MGM Reg	\$0
5639SST	0018	1Yr NC MGM Reg	\$0
5639SST	0019	1Yr NC MGM Reg	\$0
5639SST	0020	1Yr NC MGM Reg	\$0
5639SST	0021	1Yr NC MGM Reg	\$0

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Corrections

(Corrected on October 7, 2010)
The Prices section has been updated.