



IBM System Storage SAN Volume Controller software V6.4.0 improves storage efficiency

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At a glance

IBM® System Storage® SAN Volume Controller (SVC) Version 6.4 can help:

- When storage requirements growing at a fast rate
- When the costs necessary to manage storage requirements are taking over the IT budget

IBM System Storage SVC offers a solution to these problems by supporting a more flexible, responsive, and efficient storage environment. IBM System Storage SVC is designed to deliver the benefits of storage virtualization in environments from large enterprises to small businesses and mid-sized companies.

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

Overview

IBM SAN Volume Controller is designed to improve storage efficiency by compressing data by as much as 80% through embedded real-time compression for block storage, enabling up to five times as much data to be stored in the same physical disk space. Unlike other approaches to compression, IBM Real-time Compression is designed to be used with active primary data such as production databases and email systems, dramatically expanding the range of candidate data that can benefit from compression. IBM Real-time Compression operates as data is written to disk avoiding the need to store uncompressed data while awaiting compression.

Data mobility has been enhanced with greater flexibility for nondisruptive volume moves. Previous versions of SAN Volume Controller provided the ability to move volumes nondisruptively between the nodes in an I/O group. SAN Volume Controller now supports moving volumes anywhere within a clustered system while avoiding disruption of host access to storage.

SAN Volume Controller systems with 10 Gbps Ethernet ports now support attachment to next-generation Converged Enhanced Ethernet (CEE) networks using Fibre Channel over Ethernet (FCoE). This support enables connecting SAN Volume Controller to servers for host attachment and to other SAN Volume Controller systems for clustering or for mirroring using Fibre Channel or FCoE interfaces using these networks. The same ports may also be used for iSCSI server connections.

Key prerequisites

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

Planned availability date

June 15, 2012

Description

IBM System Storage SVC V6.4 highlights include support for real-time compression of data, nondisruptive volume moves across I/O groups within a clustered system, and FCoE connectivity on existing 10 Gb Ethernet hardware. The following functions, features, and support options help increase the benefits of the SAN Volume Controller.

Real-time compression

IBM SAN Volume Controller is designed to improve storage efficiency by supporting real-time compression for block storage which is designed to improve efficiency by compressing data by as much as 80%, enabling storage for up to five times as much data in the same physical disk space. Unlike other approaches to compression, IBM Real-time Compression is designed to be used with active primary data such as production databases and email systems, dramatically expanding the range of candidate data that can benefit from compression. IBM Real-time Compression operates as data is written to disk avoiding the need to store uncompressed data while awaiting compression.

To authorize use of this function, the user licenses the SVC Real-time Compression Software, 5641-CP1. The license entitles users for the quantity of terabytes of SVC volumes created with real-time compression enabled. The volume size (and not necessarily the amount of data you are able to store on that volume compressed) is the measure used to determine how many terabytes of 5641-CP1 to license. Unlike SVC standard (5639-VC6), the pricing per terabyte is flat for any quantity of terabytes and not tiered. This provides simplicity for licensing real-time compression at a sub-capacity level of the entire SVC storage management configuration.

For example, you create 20 volumes with real-time compression turned on, each with a volume size of 0.5 terabytes for a total of 10 terabytes. Even though enabling compression will allow 20 or more terabytes of data to be stored across these 20 volumes, the quantity of terabytes requiring entitlement is 10 terabytes (the sum of the volume sizes). The 5641-CP1 license is not licensed to a specific SVC hardware devices, but is licensed to the customer within a country, in the same way that SVC standard (5639-VC6) and SVC for XIV® (5639-SX1) are licensed today.

Nondisruptive volume moves across clustered systems

Data mobility has been enhanced with greater flexibility for nondisruptive volume moves. Previous versions of SVC provided the ability to move volumes nondisruptively between the nodes in an I/O group and now supports moving volumes anywhere within a clustered system without disruption of host access to storage.

FCoE on current 10 GbE hardware

SAN Volume Controller systems with 10Gbps Ethernet ports now support attachment to next-generation CEE networks using FCoE. This support enables SVC connections to servers for host attachment and to other SAN Volume Controller systems for clustering or for mirroring using Fibre Channel or FCoE interfaces using these networks. The same ports may also be used for iSCSI server connections.

Real-time Compression allowance

IBM authorizes existing Storwize® V7000 and SVC customers to evaluate the new Real-time Compression capability at no cost. Customers who wish to take advantage of this opportunity are encouraged to download the SVC version 6.4 software and enable the Real-time Compression function to help evaluate the potential benefits they can obtain based on their own specific environment and application workloads. The evaluation period is for up to forty-five days and it begins when customers enable the compression function. At the end of the evaluation period, customers must either purchase the required licenses for Real-time Compression or disable the function. If, during the course of the evaluation an issue arises, IBM recommends contacting their local technical sales specialist for assistance.

Customers taking advantage of this opportunity must work with their local IBM Business Partner or their IBM sales representative through the evaluation process to ensure the version 6.4 software is downloaded from a designated IBM site, the evaluation period allowance is maintained, and to resolve any issues or questions related to the use of the compression capabilities. It is the customer's responsibility to ensure that they are properly licensed for the Real-time Compression function should they choose to use it after the evaluation period is over.

Accessibility by people with disabilities

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

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

Section 508 of the US Rehabilitation Act

IBM System Storage SVC Software V6.4.0 is capable, as of June 15, 2012, when used in accordance with associated IBM 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. A US Section 508 Voluntary Product Accessibility Template (VPAT) can be requested on the following website

http://www-03.ibm.com/able/product_accessibility/index.html

Reference information

For information on the IBM System Storage SAN Volume Controller Storage Engine 2145-CG8, refer to Hardware Announcement [111-083](#), dated May 09, 2011 .

For information on IBM System Storage Productivity Center, refer to Hardware Announcement [110-255](#), dated November 23, 2010 .

For information on the previous IBM System Storage SAN Volume Controller Software, refer to SVC V6.1 Software Announcement [210-350](#), dated October 07, 2010 , SVC V6.2 Software Announcement [211-175](#), dated May 09, 2011 , and SVC V6.3 Software Announcement [211-373](#), dated October 11, 2011 .

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

Program number

Program number	VRM	Program name
5639-VC6	6.4.0	IBM System Storage SAN Volume Controller Software V6
5725-B99	6.4.0	IBM System Storage SAN Volume Controller Software V6 (for Passport Advantage®)
5639-SX1	6.4.0	IBM System Storage SAN Volume Controller for XIV Software V6
5725-B95	6.4.0	IBM System Storage SAN Volume Controller for XIV Software V6 (for Passport Advantage)
5641-CP1	6.4.0	IBM System Storage SAN Volume Controller Real-time Compression Software V6
5725-H04	6.4.0	IBM System Storage SAN Volume Controller Real-time Compression Software V6 (for Passport Advantage)

Product identification number

SAN Volume Controller Software V6

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

SAN volume Controller for XIV Software V6

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

SAN volume Controller Real-time Compression Software V6

Program PID number	Maintenance 1-year PID number	Maintenance 3-year PID number
5641-CP1	5641-CS1 reg	5641-CS3 reg
Maintenance 2-year PID number	Maintenance 4-year PID number	Maintenance 5-year PID number
5641-CS2 reg	5641-CS4 reg	5641-CS5 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).

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 are available to IBM and Business Partners on the IBM Systems College (formerly STG SMART Zone) site at announcement:

- 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

Hands-on courses are available worldwide to all audiences for SVC 6:

Course number	Course title
SNV0	SAN volume Controller (SVC) v6 Planning and implementation
SNV1	SAN volume Controller (SVC) v6 Planning and implementation workshop

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

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

Search on the course number - 'SNV0' for lectures only, or 'SNV1' for lectures and labs.

SNV0 for IBM:

<https://w3.ibm.com/learning/lms/Saba/Web/Main/goto/learningActivity?deepLinkRedirect=false&courseNum=SNV0G>

SNV0 for Business Partners (worldwide):

http://www.ibm.com/services/learning/ites.wss/tp/en?pageType=tp_search_results&rowStart=0&rowsToReturn=20&searchString=snv0

SNV0 for Business Partners (US):

http://www.ibm.com/services/learning/ites.wss/us/en?pageType=course_description&courseCode=snv00

SNV1 for IBM:

<https://w3.ibm.com/learning/lms/Saba/Web/Main/goto/learningActivity?deepLinkRedirect=false&courseNum=SNV1G>

SNV1 for Business Partners (worldwide):

http://www.ibm.com/services/learning/ites.wss/tp/en?pageType=tp_search_results&rowStart=0&rowsToReturn=20&searchString=snv1

SNV1 for Business Partners (US):

http://www.ibm.com/services/learning/ites.wss/us/en?pageType=course_description&courseCode=snv10

More information is available at

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

or

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

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>

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage website

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

Publications

No publications are shipped with these programs.

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

Title	Order number
IBM System Storage SAN Volume Controller Read First Flyer	GA32-0843
IBM System Storage SAN Volume Controller Model 2145-CG8 Hardware Installation Guide	GC27-3923
IBM System Storage SAN Volume Controller Hardware Maintenance Guide	GC27-2283
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	GA32-0844

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 website
<http://www.ibm.com/shop/publications/order>
- To directly download publications in PDF format, visit the IBM product support website
<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.

Technical information

Specified operating environment

Hardware requirements

This program requires at least one pair of IBM System Storage SAN Volume Controller 2145-CG8, 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 in use 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 [110-255](#), dated November 23, 2010

For further hardware requirements with new 2145-CG8 clusters, refer to Hardware Announcement [111-083](#), dated May 09, 2011 .

The minimum hardware and software requirements for IBM Tivoli Storage Productivity Center has not changed since the following announcement:

<http://www-01.ibm.com/common/ssi/cgi-bin/ssialias?subtype=ca&infotype=an&appname=iSource&supplier=897&letternum=ENUS210-239>

Software requirements

Installation of SVC V6.4 software can be done directly from systems running SVC V6.3. Clusters with SVC V5.1.0.7, or later, or any level of Version 6.1 or 6.2, can be upgraded to SVC V6.3, and then to SVC 6.4. Previous levels of SVC V5.1 must be upgraded to the most recent 5.1 level before being upgraded to Version 6.3.

Customers running SVC V1 and V2 clusters must first acquire and install the SVC V3 code to enable installation of V4. Version 4.3.1 is prerequisite to performing a concurrent code load to SVC V5.

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 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.

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 website

<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.

Compatibility

For further information regarding currently supported environments and operating guidelines, visit the SVC 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-CG8, 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 website at

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

For hardware-associated limitations, refer to Hardware Announcement [111-083](#), dated May 09, 2011 .

For additional information, refer to Usage restriction section 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

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, 5639-SX1, or both 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 license entitlement for each function.

Installability

Refer to the [Software requirements](#) section.

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express . Product upgrades and technical support are provided by the Software Subscription and Support (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 Subscription and Support (also referred to as Software Maintenance) with each program license acquired. The initial period of Software Subscription and Support (Software Maintenance) can be extended by the purchase of a renewal option, if available.

Packaging

Refer to the [Hardware requirements](#) section.

Security, auditability, and control

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

For ordering information about SVC software 5639-VC6 in AAS and Passport Advantage , and SVC for XIV software 5639-SX1 in AAS and Passport Advantage , see the V6.1 and V6.2 announcements listed in the [Reference information](#) section.

Order handling

The IBM storage software for products identified in this announcement (5639-VC6, 5639-SX1, and 5641-CP1) will be ordered through existing channels using existing configurator and ordering tools. However, the fulfillment processes have been modified to improve customer records management associated with Software Subscription and Support, often referred to as Software Maintenance. Software Subscription and Support will be entitled through Passport Advantage or Passport Advantage Express .

The products 5639-VC6, 5639-SX1, and 5641-CP1 when selected during the configuration process with each hardware system, will be enabled for the system unit for which the product was ordered. Optionally, software and license only configurations can be created for 5639-VC6, 5639-SX1, 5641-CP1, and 5608-PCS based on existing supported hardware system units in the customer business environment. Offerings in this announcement are available exclusively through electronic download.

Passport Advantage customer: Media pack entitlement details

A Passport Advantage media pack will not be generated. Read first information previously found in the media pack, will be available with downloaded code updates from Passport Advantage .

Media pack information can be found on the Passport Advantage website

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

Passport Advantage (PPA) allows greater flexibility to help customers manage their software licenses and Subscription and Support renewals. Customers can now have a common anniversary date for Subscription and Support renewals for all IBM software, under a PPA agreement, including IBM Storage software. The anniversary date, established at the order ship date for the initial product acquisition, will remain unchanged while their Passport Advantage or Passport Advantage Express agreement remains in effect.

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

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

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

Product Identifier Description	(PID)
IBM System Storage SAN Volume Controller Real-time Compression Software V6 per Terabyte	5641-CP1
IBM System Storage SAN Volume Controller Real-time Compression Software V6 (for Passport Advantage) per Terabyte	5725-H04

Product category: Storage Virtualization

Program name: IBM System Storage SAN Volume Controller Real-time
Compression Software V6

PID: 5641-CP1

Description	Part number
IBM SVC Real-time Compression per Terabyte License and SW S&S 12 Months	D0PRGLL
IBM SVC Real-time Compression per Terabyte Annual SW S&S Renewal	E0DTJLL
IBM SVC Real-time Compression per Terabyte SW S&S Reinstate 12 Months	D0PRHLL

Charge metric

Program name	Part number or PID number	Charge metric
IBM System Storage SAN Volume Controller Storage Software V6	5639-VC6	Per terabyte
IBM System Storage SAN Volume Controller Storage Software V6 (for Passport Advantage)	5725-B99	Per terabyte
IBM System Storage SAN Volume Controller for XIV Software V6	5639-SX1	Per Storage Device
IBM System Storage SAN Volume Controller for XIV Software V6 (for Passport Advantage)	5725-B95	Per Storage Device
IBM System Storage SAN Volume Controller Real-time Compression Software V6	5641-CP1	Per terabyte
IBM System Storage SAN Volume Controller Real-time Compression Software V6 (for Passport Advantage)	5725-H04	Per terabyte

New orders for 5639-VC6 and 5639-SX1

For new SVC Software V6 orders made via AAS, first order the cluster 2145-CG8 hardware for the initial cluster, then order the SVC Software 5639-VC6 or 5639-SX1 software license.

Note: SAN Volume Controller Real-time Compression Software V6 (5641-CP1) is optional, and is ordered along with or where there is already a complete system of SVC 2145 hardware and a SVC Software 5639-VC6 or 5639-SX1 software license in place.

Software Maintenance

Program name: IBM System Storage SAN Volume Controller
Real-time Compression
Software Maintenance - One-year Registration

PID: 5641-CS1

Description	Program number	Feature number
SVC 1Yr RtC Reg/TB SVC Real-time Compression One-year NC Registration per Terabyte	5641-CS1	0262
SVC 1Yr RtC Reg/250TB SVC Real-time Compression One-year NC Registration per 250 Terabyte		0263

Program name: IBM System Storage SAN Volume Controller
Real-time Compression
Software Maintenance - Three-year Registration

PID: 5641-CS3

Description	Program number	Feature number
SVC 3Yr RtC Reg/TB SVC Real-time Compression Three-year Registration One-time charge per Terabyte	5641-CS3	0266
SVC 3Yr RtC Reg/250TB SVC Real-time Compression Three-year Registration One-time charge per 250 Terabyte		0267

Program name: IBM System Storage SAN Volume Controller
Real-time Compression
Software Maintenance - Two-year Registration

PID: 5641-CS2

Description	Program number	Feature number
SVC 2Yr RtC Reg/TB SVC Real-time Compression Two-year Registration One-time charge per Terabyte	5641-CS2	0264
SVC 2Yr RtC Reg/250TB SVC Real-time Compression		0265

Two-year Registration
One-time charge
per 250 Terabyte

Program name: IBM System Storage SAN Volume Controller
Real-time Compression
Software Maintenance - Four-year Registration

PID: 5641-CS4

Description	Program number	Feature number
SVC 4Yr RtC Reg/TB SVC Real-time Compression Four-year Registration One-time charge per Terabyte	5641-CS4	0268
SVC 4Yr RtC Reg/250TB SVC Real-time Compression Four-year Registration One-time charge per 250 Terabyte		0269

Program name: IBM System Storage SAN Volume Controller
Real-time Compression
Software Maintenance - Five-year Registration

PID: 5641-CS5

Description	Program number	Feature number
SVC 5Yr RtC Reg/TB SVC Real-time Compression Five-year Registration One-time charge per Terabyte	5641-CS5	0270
SVC 5Yr RtC Reg/250TB SVC Real-time Compression Five-year Registration One-time charge per 250 Terabyte		0271

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 V6.4.0 and IBM Storwize V7000 V6.4.0

LC23-5098 License Information for IBM System Storage SAN Volume Controller and IBM Storwize V7000 Information Center V6.4.0

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

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

Limited warranty applies

Yes

Limited warranty

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

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

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

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

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 website 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) 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-CG8, 2145-CF8, 2145-8G4, 2145-8A4, 2145-8F4, and 2145-8F2 Storage Engines, or subsequent IBM replacements of these.

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. Use of FlashCopy features requires license authorizations for only the FlashCopy sources, not the targets.

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SVC for XIV software (5639-SX1)

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

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Choose the option entitled Purchase/upgrade tools.

The only new PID offering in this announcement is 5641-CP1 (IBM System Storage SAN Volume Controller Real-time Compression Software V6). This section does not repeat the information for 5639-VC6 (IBM System Storage SAN Volume Controller Software V6) 5639-SX1 (IBM System Storage SAN Volume Controller for XIV Software V6) and their respective software maintenance because they have not changed from previously announced price list.

Program name: IBM System Storage SAN Volume Controller Real-time
Compression Software V6
PID: 5641-CP1

Use-based OTC with One-year Software Maintenance

Description	Program number	Feature number
SVC RtC+1YRSWM/TB SVC Real-time Compression Per Terabyte with 1 Year SW Maintenance	5641-CP1	0260
SVC RtC+1YRSWM/250TB SVC Real-time Compression Per 250 Terabyte with 1 Year SW Maintenance		0261

Program name: IBM System Storage SAN Volume Controller Real-time
Compression Software V6
Software Maintenance NC - One-year Registration

PID: 5641-CS1

Description	Program number	Feature number
SVC 1Yr RtC Reg/TB SVC Real-time Compression One-year Registration No Charge Registration per Terabyte	5641-CS1	0262
SVC 1Yr RtC Reg/250TB SVC Real-time Compression One-year Registration No Charge Registration per 250 Terabyte		0263

Program name: IBM System Storage SAN Volume Controller Real-time
Compression Software V6
Software Maintenance - Three-year Registration

PID: 5641-CS3

Description	Program number	Feature number
SVC 3Yr RtC Reg/TB SVC Real-time Compression Three-year Registration One-time Charge per Terabyte	5641-CS3	0266
SVC 3Yr RtC Reg/250TB SVC Real-time Compression Three-year Registration One-time Charge		0267

per 250 Terabyte

Program name: IBM System Storage SAN Volume Controller Real-time
Compression Software V6
Software Maintenance - Two-year Registration

PID: 5641-CS2

Description	Program number	Feature number
SVC 2Yr RtC Reg/TB SVC Real-time Compression Two-year Registration One-time Charge per Terabyte	5641-CS2	0264
SVC 2Yr RtC Reg/250TB SVC Real-time Compression Two-year Registration One-time Charge per 250 Terabyte		0265

Program name: IBM System Storage SAN Volume Controller Real-time
Compression Software V6
Software Maintenance - Four-year Registration

PID: 5641-CS4

Description	Program number	Feature number
SVC 4Yr RtC Reg/TB SVC Real-time Compression Four-year Registration One-time Charge per Terabyte	5641-CS4	0268
SVC 4Yr RtC Reg/TB SVC Real-time Compression Four-year Registration One-time Charge per 250 Terabyte		0269

Program name: IBM System Storage SAN Volume Controller Real-time
Compression Software V6
Software Maintenance - Five-year Registration

PID: 5641-CS5

Description	Program number	Feature number
SVC 5Yr RtC Reg/TB SVC Real-time Compression Five-year Registration One-time Charge per Terabyte	5641-CS5	0270
SVC 5Yr RtC Reg/TB SVC Real-time Compression Five-year Registration One-time Charge per 250 Terabyte		0271

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[ENUS-212-181-LIST_PRICES_2012_06_04.PDF](#)

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Corrections

(Corrected on June 21, 2012)

The Key prerequisites and Security, auditability, and control sections have been updated.

(Corrected on June 20, 2012)

The Education support section has been updated.