



IBM SmartCloud Storage Access R1.1 introduces a new self-service portal to lower operations cost and improves productivity and service quality

Table of contents

1 Overview	5 Publications
2 Key prerequisites	6 Technical information
3 Planned availability date	11 Ordering information
3 Description	15 Terms and conditions
4 Product positioning	19 Prices
5 Program number	21 Order now

At a glance

IBM SmartCloud® Storage Access R1.1 enables enterprises to implement a private cloud storage service where users can request and receive storage capacity, share files with other users, and administrators can easily monitor and report usage with just a few clicks.

IBM SmartCloud Storage Access R1.1:

- Enables self service with a simple intuitive interface and improves productivity
- Offers fast time to value with a solution that is simple to deploy and easy to use
- Works with existing storage infrastructures, such as Storwize® V7000 Unified, SONAS, or Tivoli® Storage Productivity Center with TPC V5.1 TPC 5.1 Select, or SmartCloud Virtual Storage Center V5.1
- Improves overall IT efficiency and quality of service with automated provisioning, easy monitoring, and reporting
- Provides overall reduction in operational complexity and expenses with a self-service portal, standardization, and automation
- Integrates with Lightweight Directory Access Protocol (LDAP) for authentication and email systems for notifications

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

Overview

IBM SmartCloud Storage Access R1.1 increases productivity, lowers operations cost, and improves storage service quality.

With IBM SmartCloud Storage Access R1.1, you can quickly and easily implement a private cloud storage solution and leverage the benefits of a cloud delivery model.

Licenses for offerings in this announcement include Software Subscription and Support. Software Subscription and Support contracts are managed in Passport Advantage®. Refer to the [Ordering information](#) section of this announcement for further details.

Key prerequisites

The following tables list the supported components required by the IBM SmartCloud Storage Access server.

Supported virtual machine hypervisors

Virtual machine	Versions	Notes
VMware ESX	4.x (64bits) 5.x (64bits)	with latest fix pack

Supported database

Virtual machine	Versions	Notes
Integrated Derby		

Supported user registries

User registry	Versions	Notes
LDAP Version 3	IBM Tivoli Directory Server Version 6.1	with latest fix pack
Active Directory	windows™ 2008 R2	with latest fix pack

The following table lists the supported component versions for clients accessing the IBM SmartCloud Storage Access servers.

Note: Clients that are not listed here may still work.

Browser Compatibility

Browser	Versions	Notes
Firefox	Version 4 and above	with latest fix pack Minimum resolution of 1024x728 (or greater)
Chrome	Version 23 and above	

IBM SmartCloud Storage Access R1.1 is dependent on the following software and hardware:

- IBM Tivoli Storage Productivity Center
- Storage devices: SONAS or Storwize V7000 Unified

IBM SmartCloud Storage Access R1.1 is compatible with specific version of IBM Tivoli Storage Productivity Center.

Version support for IBM Tivoli Storage Productivity Center or IBM SmartCloud Virtual Storage Center

IBM Tivoli Storage Productivity Center Server	Versions	Notes
IBM Tivoli Storage Productivity Center	Version 5.1.1	with latest fix pack
IBM SmartCloud Virtual Storage Center	Version 5.1	with latest fix pack

IBM SmartCloud Storage Access R1.1 is compatible with specific firmware versions of storage devices.

Firmware version support for IBM storage devices

Storage Devices	Versions	Notes
SONAS	Version 1.3.2	with latest fix pack
Storwize v7000 Unified	Version 1.3.2 1.4.0	with latest fix pack

Planned availability date

February 20, 2013

Description

IBM SmartCloud Storage Access R1.1 enables enterprises to implement a private cloud storage service where users, with a few clicks, can request and receive storage capacity, share files with other users, and administrators can easily monitor and report usage.

Major features of IBM SmartCloud Storage Access R1.1 include:

Self-service portal for administrators and users

- Users can log into the IBM SmartCloud Storage Access portal to request storage, view usage reports, and setup sharing
- Cloud and department/customer administrators use the portal to manage the entire storage cloud, or a region of the storage cloud
- Strict role-based access control is provided for security

Multiple and flexible service profile support

- Storage profiles can be defined with different service levels which are made available by IBM SmartCloud Storage Access R1.1 to administrators and users:
 - Predefine profiles
 - Custom profiles
- Client value:
 - Start easily by using predefined profiles in IBM SmartCloud Storage Access R1.1
 - Flexibility to customize and define custom service levels, such as performance, isolation, and disaster recovery policy

Third party authentication integration

- Both portal authentication and data access authentication can work with existing AD/LDAP
- Client value: Seamless user management integration

Monitor capacity usage automatically

- Cloud administrator can set capacity warning threshold, and notification will be sent by system automatically when the threshold is reached
- Client value: Cloud administrator can easily monitor the storage resource pool through automatic notification

Dashboard report for history usage query

- Reporting charts provide history usage information and are available for administrators and users
- Client value:

- Cloud and department administrators can clearly see the usage data history for users, making it easy to plan and rebalance the storage cloud as needed
- User can see their own usage data history, which can help plan their business better

Automatic approval process

- A complete approval control process is provided so administrators can define what actions need approval
- Client value: Cloud administrator and department/customer administrator can easily and effectively manage the capacity requests

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

Product positioning

IBM SmartCloud Storage Access R1.1 software enables a private cloud storage service with a self-service storage capacity provisioning, simple monitoring, and usage reporting. Users can easily and quickly request and receive storage capacity, view usage reports, and set up sharing with others through a self-service portal. Cloud or department administrators provide the service catalog, and manage and monitor the cloud storage.

Features	Benefits
self-service provisioning	Users able to provision their storage using a nontechnical, easy to use portal Provisioning process automated, providing consistent and higher quality of service
web-based access	Access from anywhere, anytime
Monitoring & Reporting capability	Enables simple reporting per person or department
Service catalog	Enables administrators to define classes of storage and make them available to departments where users can request storage on any class of storage available to that user's department
Capacity elasticity	Users can quickly get additional storage capacity on demand

Reference information

For information on the IBM Storwize V7000 Unified, refer to Hardware Announcement [111-180](#), dated October 11, 2011 , and Software Announcement [211-433](#), dated October 11, 2011 .

For information on IBM Scale Out Network Attached Storage (SONAS), refer to:

- Software Announcement [210-035](#), dated February 09, 2010
- Hardware Announcement [110-037](#), dated February 09, 2010
- Software Announcement [211-110](#), dated May 09, 2011
- Hardware Announcement [111-068](#), dated May 09, 2011
- Software Announcement [211-370](#), dated October 11, 2011

For information on IBM Tivoli Storage Productivity Center V5.1 products refer to Software Announcement [212-189](#), dated June 04, 2012 , and Software Announcement [212-185](#), dated October 03, 2012 .

Program number

Program number	VRM	Program name
5641-SSA	1.1.0	IBM SmartCloud Storage Access
5725-I44	1.1.0	IBM SmartCloud Storage Access (for Passport Advantage)

Product identification number

PID numbers for IBM SmartCloud Storage Access R1.1 software are:

	SW Maintenance 1 year PID number Registration (Reg)	SW Maintenance 2 year PID number Registration (Reg)
Program PID number		
5641-SSA	5641-SSB	5641-SSC
SW Maintenance 3 year PID number Registration (Reg)	SW Maintenance 4 year PID number Registration (Reg)	SW Maintenance 5 year PID number Registration (Reg)
5641-SSD	5641-SSE	5641-SSF

Business Partner information

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

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=213-087>

Education support

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

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

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

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 hardcopy publications are shipped with this program.

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

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 (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

Technical information

Specified operating environment

Hardware requirements

The following information describes the hardware recommended for various platforms supported by IBM SmartCloud Storage Access R1.1.

The information provided is a general guideline and actual requirements can vary from installation to installation. Specific sizing should be done to meet your installation requirements.

The IBM SmartCloud Storage Access server is supported on VMware ESX server platform.

The following table describes both the minimum hardware requirements and recommended minimum production hardware requirements for the IBM SmartCloud Storage Access server components.

The minimum requirements listed indicate the absolute minimum hardware levels needed when running with 5-10 concurrent users.

The recommended minimum production requirements are recommendations to support a small cloud. As with any software solution, hardware needs to be properly sized for a specific customer scenario.

Table: Minimum hardware requirements

Component	Minimum hardware requirements	Recommended minimum hardware production requirements
IBM SmartCloud Storage Access Server	1 CPU 100 GB free disk space 8 GB physical memory	4 CPUs 200 GB free disk space 16 GB physical memory

Requirements are for the IBM SmartCloud Storage Access R1.1 server only. If other servers, such as the TPC server, are installed on the same system, the requirements would need to be higher to account for the additional needs of the other components installed and running there.

IBM SmartCloud Storage Access R1.1 is compatible with specific firmware versions of storage devices.

Table: Firmware version support for IBM storage devices

Storage Devices	Versions	Notes
SONAS	Version 1.3.2	with latest fix pack
Storwize v7000 Unified	Version 1.3.2 1.4.0	with latest fix pack

Current support summaries, including specific software, hardware, and firmware levels supported, are maintained at the IBM SmartCloud Storage Access Support website

For information on the IBM Storwize V7000 Unified or IBM SONAS hardware and software, refer to the announcements listed in the [Reference information](#) section.

Software requirements

The following tables list the supported software components required by the IBM SmartCloud Storage Access server.

Table: Supported virtual machine hypervisors

Virtual machine	Versions	Notes
VMware ESX	4.x (64bits) 5.x (64bits)	with latest fix pack

Table: Supported database

Virtual machine	Versions	Notes
Integrated Derby		

Table: Supported user registries

User registry	Versions	Notes
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Browser	Versions	Notes
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IBM SmartCloud Storage Access R1.1 is dependent on the following software and hardware:

- IBM Tivoli Storage Productivity Center
- Storage devices: SONAS or Storwize V7000 Unified

IBM SmartCloud Storage Access R1.1 is compatible with a specific version of IBM Tivoli Storage Productivity Center.

Table: Version support for IBM Tivoli Storage Productivity Center or IBM SmartCloud Virtual Storage Center

IBM Tivoli Storage Productivity Center Server	Versions	Notes
IBM Tivoli Storage Productivity Center	Version 5.1.1	with latest fix pack
IBM SmartCloud Virtual Storage Center	Version 5.1	with latest fix pack

IBM SmartCloud Storage Access R1.1 is compatible with specific firmware versions of storage devices.

Table: Firmware version support for IBM storage devices

Storage Devices	Versions	Notes
SONAS	Version 1.3.2	with latest fix pack
Storwize v7000 Unified	Version 1.3.2 1.4.0	with latest fix pack

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

The following products or services could be purchased with this product:

- Cloud Design Workshop for IBM SmartCloud Storage Access R1.1
- Implementation Services for IBM SmartCloud Storage Access R1.1

The benefits are:

- This engagement will develop a design and integration architecture for the IBM SmartCloud Storage Access offering. The resulting architecture will be based on tested and approved reference architectures specifically created for IBM SmartCloud Storage Access with customizations to meet specific client situations and integration points.
- IBM will implement an IBM SmartCloud Storage Access solution based on reference architectures customized to meet the specific client requirements during a design workshop.

Compatibility

The IBM SmartCloud Storage Access R1.1 can only work with prerequisites defined: TPC 5.1, TPC 5.1 Select, SmartCloud Virtual Storage Center, IBM SONAS or IBM Storwize V7000 Unified. For specific installation, this can be done in a physical or VM unit with VMWare hypervisor. Other hypervisor support will be handled via RPQ or subsequent IBM SmartCloud Storage Access releases.

For further information regarding currently supported environments and operating guidelines, visit the IBM SmartCloud Storage Access R1.1 support website at

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

Limitations

IBM SmartCloud Storage Access R1.1 will support VMWare ESX 4.X or 5.X for its installation, and client access will only have Firefox version 4 and above compatibility. Other clients may work, but those are not being tested.

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 IBM SmartCloud Storage Access, in furnished publications for this product, or under the Plan/Upgrade tab in the IBM SmartCloud Storage Access restrictions document at

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

IBM Electronic Support

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

Read about the Electronic Support portfolio of tools: <http://ibm.com/electronicssupport>

Access the IBM Support Portal: <http://ibm.com/support>

Access the online Service Request tool: <http://ibm.com/support/servicerequest>

Planning information

Planning considerations required for IBM Storwize V7000 Unified or SONAS nodes apply. Refer to the announcements listed in the [Reference information](#) section and to the IBM Storwize V7000 Unified information center at the IBM Support website for publications

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

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

Customers with 5641-SSA licenses are responsible to ensure the total enclosures managed (Storage devices) are within license entitlement. Customers are responsible to use these functions only to within the total number of enclosures (storage devices) licensed. If IBM SmartCloud Storage Access R1.1 is used, license must be purchased for all enclosures managed (Storage devices) by the controller.

Example scenario 1:

Customer already has one Storwize V7000 Unified and five Expansion drawers, in addition Tivoli Storage Productivity Center (TPC) version 4.2. In order to enable the IBM SmartCloud Storage Access, the customer needs to order the 5641-SSA Qty = 6 (one Unified Disk Controller plus five Expansion drawers). In addition, this customer needs to upgrade TPC to the version 5.1+ in order to accommodate the prerequisites for this offering.

Example scenario 2:

Customer has one Storwize V7000 Unified and nine Expansion drawers, and TPC is not in the environment. In order to enable the IBM SmartCloud Storage Access, the customer needs to order the 5641-SSA Qty = 10 (one Unified Disk Controller plus nine Expansion drawers). In addition, this customer needs to order ten TPC 5.1 Select licenses in order to accommodate the prerequisites for this offering.

Example scenario 3:

Customer does not have Storwize V7000 Unified nor TPC in their environment. In order to enable the IBM SmartCloud Storage Access, the customer needs to order the 5641-SSA Qty = 1+XH (one Unified Disk Controller plus X # Expansion drawers "x" to accommodate the amount of Total Storage needed). In addition, this customer needs to order TPC 5.1 Select (Qty=1+X) in order to accommodate the prerequisites for this offering.

Customer responsibilities

Planning for and provision of the power and environmental support required for IBM SmartCloud Storage Access is a customer responsibility.

Refer to the announcements listed in the [Reference information](#) section, the Storwize V7000 Unified information center at the IBM Support website for publications, or IBM SONAS as well as Total Productivity Center 5.1 web pages.

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

Service support for the server and its operating system which houses the browser from which the IBM SmartCloud Storage Access console is accessed is a customer responsibility (and is separately ordered).

Customers with 5641-SSA enclosure licenses are responsible for combining the total number of enclosures managed (storage devices) for each IBM SmartCloud Storage Access R1.1 deployment (also known as Private storage Cloud).

Software Subscription and Support (also referred to as Software Maintenance in AAS ordering system) 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 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 with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

Packaging

New order packaging

After receipt of an order for 5641-SSA, the Business Partner or customer will be required to register and accept Passport Advantage or Passport Express terms and conditions. Upon registration, the customer will be authorized for the electronic download of software code updates. The product includes the license and one year of Subscription and Support. Up to four additional years of support can be purchased with the initial order.

The paid invoice acts as Proof of Entitlement (PoE) for all orders of IBM SmartCloud Storage Access R1.1 software. All associated media listed in the [Publications](#) section are also shipped with the new hardware order. One media set per Storwize V7000 Unified or SONAS will be shipped. Refer to the hardware announcements listed in the [Reference information](#) section for correlated hardware order features.

Subsequent media orders

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

Security, auditability, and control

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. 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

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

Product Identifier Description	(PID)
IBM SmartCloud Storage Access R1.1 software per Storage device	5641-SSA
IBM SmartCloud Storage Access R1.1 software (for Passport Advantage) per Storage device	5725-I44

Product category: Storage Virtualization

Ordering information for Passport Advantage

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.

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

Program name: IBM SmartCloud Storage Access R1.1 software
PID: 5641-SSA

Description	Part number
IBM SmartCloud Storage Access R1.1 per Storage device License and SW S&S 12 Months	D0V0JLL
IBM SmartCloud Storage Access R1.1 per Storage device Annual SW S&S Renewal	E0F2VLL
IBM SmartCloud Storage Access R1.1 per Storage device SW S&S Reinstate 12 Months	D0V0KLL

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

Ordering information for Non-Passport Advantage

Order handling

The IBM storage software for product identified in this announcement (5641-SSA) 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 product 5641-SSA 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 5641-SSA based on existing supported hardware system units in the customer business environment. Offerings in this announcement are available exclusively through electronic download.

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.

Program name: IBM SmartCloud Storage Access R1.1 software
PID: 5641-SSA

Use-based OTC with One-year Software Maintenance

Description	Program number	Feature number
IBM SmartCloud Storage Access R1.1 Per Storage device	5641-SSA	0392

Software Maintenance

Program name: IBM SmartCloud Storage Access
Software Maintenance - One-year Registration
PID: 5641-SSB

One-year No Charge Registration:

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance One-year NC Registration per Storage Device	5641-SSB	0393

Program name: IBM SmartCloud Storage Access
Software Maintenance - Two-year Registration
PID: 5641-SSC

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance Two-year Registration One-time charge per Storage Device	5641-SSC	0394

Program name: IBM SmartCloud Storage Access
Software Maintenance - Three-year Registration
PID: 5641-SSD

Description	Program number	Feature number
IBM SmartCloud Storage	5641-SSD	0395

Access SW Maintenance
 Three-year Registration
 One-time charge
 per Storage Device

Program name: IBM SmartCloud Storage Access
 Software Maintenance - Four-year Registration
 PID: 5641-SSE

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance Four-year Registration One-time charge per Storage Device	5641-SSE	0396

Program name: IBM SmartCloud Storage Access
 Software Maintenance - Five-year Registration
 PID: 5641-SSF

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance Five-year Registration One-time charge per Storage Device	5641-SSF	0397

Charge metric

Program name	Part number or PID number	Charge metric
IBM SmartCloud Storage Access R1.1 software	5641-SSA	Per Storage device
IBM SmartCloud Storage Access R1.1 software (for Passport Advantage)	5725-I44	Per Storage device

Storage Device is a unit of measure by which the Program can be licensed. A Storage Device is an independently powered, channel-attached device that stores or controls the storage of data on magnetic disks or solid state drives, such as disk controllers and their respective expansion units, each constituting separate Storage Devices. Licensee must obtain entitlements for every Storage Device which runs, uses services provided by, or otherwise accesses the Program and for every Storage Device on which the Program is installed.

Instead of the entitlements required for the Program directly, Licensee must obtain entitlements for this Program sufficient to cover the Storage Devices managed by the Program.

New orders for 5641-SSA

For new IBM SmartCloud Storage Access R1.1 software orders made via AAS, you can also order the prerequisites.

Note: IBM SmartCloud Storage Access R1.1 software (5641-SSA) is optional, and is ordered along with or where there is already a complete system of Storwize V7000 Unified or SONAS hardware and Storwize V7000 Unified or SONAS (5639-VF1, 5639-SN1) software license in place.

Program name: IBM SmartCloud Storage Access R1.1 software
 PID: 5641-SSA

Use-based OTC with One-year software Maintenance

Description	Program number	Feature number
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IBM SmartCloud Storage 5641-SSA 0392
Access R1.1 software
Per Storage device

Software Maintenance

Program name: IBM SmartCloud Storage Access
 Software Maintenance - One-year Registration

PID: 5641-SSB

One-year No Charge Registration

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance One-year NC Registration per Storage device	5641-SSB	0393

Program name: IBM SmartCloud Storage Access
 Software Maintenance - Two-year Registration

PID: 5641-SSC

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance Two-year Registration One-time charge per Storage device	5641-SSC	0394

Program name: IBM SmartCloud Storage Access
 Software Maintenance - Three-year Registration

PID: 5641-SSD

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance Three-year Registration One-time charge per Storage device	5641-SSD	0395

Program name: IBM SmartCloud Storage Access
 Software Maintenance - Four-year Registration

PID: 5641-SSE

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance Four-year Registration One-time charge per Storage device	5641-SSE	0396

Program name: IBM SmartCloud Storage Access
 Software Maintenance - Five-year Registration

PID: 5641-SSF

Description	Program number	Feature number
-------------	----------------	----------------

IBM SmartCloud Storage 5641-SSF 0397
Access SW Maintenance
Five-year Registration
One-time charge
per Storage device

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) applies for Subscription and Support (also referred to as Software Maintenance) and does not require customer signatures.

License Information form number

GI13-2845 License Information for IBM SmartCloud Storage Access R1.1

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)

Yes. Contact your IBM representative.

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

Usage restriction

Yes

IBM SmartCloud Storage Access R1.1 software (5641-SSA)

This program (5641-SSA) is licensed on a per-Storage device 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 Storwize V70000 2073-700 or SONAS 2851-SI2 or 2851-SS2 Storage Engines, or subsequent IBM replacements of these that support the program.

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

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

Software Subscription and Support applies

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

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

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

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

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

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

Variable charges apply

No

Educational allowance available

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

Statement of good security practices

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

IBM Electronic Services

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

Now integrated into the base operating system of AIX® 5.3, AIX 6.1, and AIX 7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type "smitty esa_main", and select "Configure Electronic Service Agent ." In addition, ESA now includes a powerful Web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

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

Benefits

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

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

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

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

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

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

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

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Prices

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

License metric will be per Storage device.

Passport Advantage

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Additional information is also available on the following Passport Advantage website

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

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Choose the option entitled Purchase/upgrade tools.

Program name: IBM SmartCloud Storage Access R1.1 software
PID: 5641-SSA

Use-based OTC

Description	Program number	Feature number
IBM SmartCloud Storage Access R1.1 software Per Storage device	5641-SSA	0392

Software Maintenance

Program name: IBM SmartCloud Storage Access
Software Maintenance - One-year Registration

PID: 5641-SSB

Description	Program number	Feature number	One-
IBM SmartCloud Storage Access SW Maintenance One-year NC Registration per Storage device	5641-SSB	0393	

Program name: IBM SmartCloud Storage Access
Software Maintenance - Two-year Registration

PID: 5641-SSC

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance Two-year Registration One-time charge per Storage device	5641-SSC	0394

Program name: IBM SmartCloud Storage Access Software Maintenance - Three-year Registration

PID: 5641-SSD

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance Three-year Registration One-time charge per Storage device	5641-SSD	0395

Program name: IBM SmartCloud Storage Access Software Maintenance - Four-year Registration

PID: 5641-SSE

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance Four-year Registration One-time charge per Storage device	5641-SSE	0396

Program name: IBM SmartCloud Storage Access Software Maintenance - Five-year Registration

PID: 5641-SSF

Description	Program number	Feature number
IBM SmartCloud Storage Access SW Maintenance Five-year Registration One-time charge per Storage device	5641-SSF	0397

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