



# IBM Real-time Compression Software Version 4.1 provides Random Access Compression Engine (RACE) function for the IBM Real-time Compression Appliance

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## At a glance

Are storage requirements growing too fast? IBM® Real-time Compression™ Software version 4.1 is designed to compress CIFS/NFS data up to 80% when used in conjunction with the IBM Real-time Compression Appliance™ (2452 Model 780).

Version 4.1 adds the following functionality to IBM Real-time Compression Software:

- Support for IBM Real-time Compression Appliance STN7800 (2452-780)
- Improved performance
- Simplified pricing

For more information, refer to Hardware Announcement [113-012](#), dated February 05, 2013 .

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

## Overview

Version 4.1 introduces the following:

### Support for the IBM Real-time Compression Appliance STN7800

Version 4.1 takes advantage of the new STN7800 hardware, making use of Intel's new Sandy-Bridge architecture. The software stack was tuned to use a higher number of cores and take advantage of larger CPU cache memory. This version adds support for Intel's new 10GbE network interface cards (NICs) for increased performance in 10GbE networks.

### Improved performance

Software version 4.1 introduces a change in the networking layer. This change enables the appliance to deliver throughput performance of more than 2 GB/sec. Since this is a software change, existing users of STN6500 and STN6800 models can also gain throughput improvements.

## Simplified pricing

Real-time Compression Software Version 4.1 introduces new pricing by capping the number of terabytes per appliance to 50. Once this number is reached, the customer is free to compress as much data as they desire.

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## Key prerequisites

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IBM Real-time Compression Software V4.1 requires one or more of the following:

Machine type/model	Description
2452-650	IBM Real-time Compression Appliance STN6500
2452-680	IBM Real-time Compression Appliance STN6800
2452-780	IBM Real-time Compression Appliance STN7800

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## Planned availability date

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February 15, 2013

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## Description

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IBM Real-time Compression Software Version 4.1 provides the following:

- **Support for the IBM Real-time Compression Appliance Family:** The new software version takes advantage of the new Real-time Compression Appliance (2452-780). It makes use of Intel's new Sandy-Bridge architecture. The software stack was tuned to use a higher number of cores and take advantage of larger CPU cache memory. The software adds support for Intel's new 10GbE NIC for increased performance in 10GbE networks. The software was enhanced to support a single model with the introduction of STN7800, making the overall purchasing and management activities much easier compared to older generations using multiple models.
- **Improved performance:** Version 4.1 introduces a change in the networking layer. This change enables the appliance to deliver throughput performance of more than 2 GB/sec. Since this is a software change, existing users of STN6500 (2452-650) and STN6800 (2452-680) can also gain throughput improvements from this change.
- **Simplified pricing:** Real-time Compression Software Version 4.1 introduces new pricing by capping the number of terabytes per appliance to 50. Once this number is reached, the customer is free to compress as much data as they desire.

IBM Real-time Compression Appliance is a configured Intel-based server to be installed between a network and either a CIFS or NFS NAS system. It provides NAS storage optimization via Real-time Compression Software running on the appliance. This combination of hardware and software is designed to compress the data sent to the NAS by up to 80% using patented IBM RACE technology. The software is built around industry standard Lempel-Ziv (LZ) compression. RACE is designed to improve the reading and writing of data with data compression, and is designed to achieve zero performance impact while delivering increased of storage efficiency in the NAS system, depending on the data type. The resulting appliance appears as a smart cable in the network, and does not require any configuration changes, software, or drivers on any client, server, or NAS system.

### **Auto renewal registration of software maintenance for IBM Real-time Compression Appliance software (Feature number 9000) .**

Software maintenance renewals in the AAS ordering system for IBM Real-time Compression Appliance software are available via a services contract. Selecting feature number 9000 with the software maintenance registration ordered with the

IBM Real-time Compression Appliance software indicates the desire to continue software maintenance on a services contract at the end of the initial software maintenance term. Feature number 9000 is available on:

5639-RC1 IBM Real-time Compression Appliance Software - 1 Year Registration

5639-RC2 IBM Real-time Compression Appliance Software - 2 Year Registration

5639-RC3 IBM Real-time Compression Appliance Software - 3 Year Registration

**Note:** Auto renewal services are not available in all countries or for all initial software maintenance contract terms.

### **Accessibility by people with disabilities**

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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](http://www.ibm.com/able/product_accessibility/index.html)

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### **Reference information**

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For information on IBM Real-time Compression Appliance hardware, refer to Hardware Announcement [113-012](#), dated February 05, 2013 .

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### **Program number**

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Program number	VR	Program name
5639-RCA	4.1	IBM Real-time Compression Software
		Software Maintenance
5639-RC1		Real-time Compression Registration 1 year
5639-RC2		Real-time Compression Registration 2 year
5639-RC3		Real-time Compression Registration 3 year
5639-RC4		Real-time Compression Registration 4 year
5639-RC5		Real-time Compression Registration 5 year

### **Product identification number**

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PID numbers for IBM Real-time Compression Software are:

Program PID number	Maintenance 1-year PID number	Maintenance 2-year PID number
5639-RCA	5639-RC1 reg	5639-RC2 reg
Maintenance 3-year PID number	Maintenance 4-year PID number	Maintenance 5-year PID number
5639-RC3 reg	5639-RC4 reg	5639-RC5 reg

### **Business Partner information**

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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=213-016>

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### **Offering Information**

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Product information is available via the Offering Information website

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## Publications

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Publications are shipped with the IBM Real-time Compression Appliance hardware. For a list of publications shipped with the hardware, refer to Hardware Announcement [113-012](#), dated February 05, 2013 .

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## Technical information

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### **Specified operating environment**

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#### ***Hardware requirements***

This program requires IBM Real-time Compression Appliance (2452-780, 2452-680, or 2452-650) for installation.

Current support summaries, including specific software, hardware, and firmware levels supported, are maintained at the IBM Real-time Compression Appliance support website

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

For information on the IBM Real-time Compression Appliance hardware, refer to Hardware Announcement [113-012](#), dated February 05, 2013 .

#### ***Software requirements***

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

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

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 information regarding currently supported environments and operating guidelines, visit the IBM Real-time Compression Appliance Support website

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

#### ***Limitations***

This program operates on specified IBM Real-time Compression Appliance hardware only, currently defined by IBM 2452-780, 2452-680, and 2452-650.

For hardware-associated limitations, refer respectively to Hardware Announcement [113-012](#), dated February 05, 2013 .

For additional information, refer to **Usage restrictions** in the [Terms and conditions](#) section of this announcement, or 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 Compression Software, in furnished publications for this product, or under the Plan/Upgrade tab in the IBM Real-time Compression Appliance restrictions document at

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

## **Planning information**

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### ***Direct customer support***

The IBM Real-time Compression Appliance is a customer install machine but requires that a minimum of two days of Implementation Services be ordered with each system ordered. IBM Real-time Compression Appliance Implementation Services are available from GTS. Contact your IBM sales representative to verify that this requirement is met.

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

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

### ***Packaging***

#### **New order packaging**

IBM Compression Software, (5639-RCA) is preinstalled on and shipped with the required IBM Real-time Compression Appliance . For code updates, refer to the IBM Compression Software product support website

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

License Information documents for IBM Compression Software programs ship with the hardware on which they are preloaded. IBM Compression Software must be ordered in conjunction with hardware orders.

All publications, including license agreements, are shipped with the associated hardware.

The paid invoice acts as Proof of Entitlement (PoE) for all orders of IBM Compression Software. One media set per IBM Real-time Compression Appliance will be shipped with the hardware. Refer to the hardware announcement 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**

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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.

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## **Software Services**

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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/>

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## Ordering information

### Charge metric

Program name	Part number or PID number	Charge metric
IBM Real-time Compression Software	5639-RCA	Per Decimal Terabyte

### Order handling

The IBM storage software for products under this announcement 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 announced products 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 products under this announcement based on existing supported hardware system units in your business environment. Offerings in this announcement are available exclusively via electronic download.

Program name: IBM Real-Time Compression Software  
Base  
Software V4  
PID: 5639-RCA

Use-based OTC  
with One-year  
Software Maintenance

Description	Program number	Feature number
IBM Real-time Compression Appliance Software V4 Per Decimal Terabyte with 1 Year SW Maintenance	5639-RCA	0001

Program name: IBM Real-Time Compression Software  
Base  
Software Maintenance

One-year Registration

PID: 5639-RC1

Description	Program number	Feature number
IBM Real-time Compression 1Yr BSW Reg/Decimal TB IBM Real-time Compression Base SW One-year Registration No charge	5639-RC1	0001

per Decimal Terabyte

Description	Program number	Feature number
Auto Renewal Registration	5639-RC1	9000

Program name: IBM Real-Time Compression Software Base  
Software Maintenance

Two-year Registration

PID: 5639-RC2

Description	Program number	Feature number
IBM Real-time Compression 2Yr BSW Reg/Decimal TB IBM Real-time Compression Base SW Two-year Registration One-time charge per Decimal Terabyte	5639-RC2	0001

Description	Program number	Feature number
Auto Renewal Registration	5639-RC2	9000

Program name: IBM Real-Time Compression Software Base  
Software Maintenance

Three-year Registration

PID: 5639-RC3

Description	Program number	Feature number
IBM Real-time Compression 3Yr BSW Reg/Decimal TB IBM Real-time Compression Base SW Three-year Registration One-time charge per Decimal Terabyte	5639-RC3	0001

Description	Program number	Feature number
Auto Renewal Registration	5639-RC3	9000

Program name: IBM Real-Time Compression Software Base  
Software Maintenance

Four-year Registration

PID: 5639-RC4

Description	Program number	Feature number
IBM Real-time Compression 4Yr BSW Reg/Decimal TB IBM Real-time Compression Base SW Four-year Registration One-time charge per Decimal Terabyte	5639-RC4	0001

Program name: IBM Real-Time Compression Software  
Base  
Software Maintenance

Five-year Registration

PID: 5639-RC5

Description	Program number	Feature number
IBM Real-time Compression 5Yr BSW Reg/Decimal TB IBM Real-time Compression Base SW Five-year Registration One-time charge per Decimal Terabyte	5639-RC5	0001

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## Terms and conditions

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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.

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.

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

### ***License Information form number***

GC27-3908 License Information for IBM Real-time Compression Software

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 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**

No

### **Software Subscription and Support applies**

Yes. All distributed software licenses include Software Subscription and Support (also referred to as 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 five years from date of acquisition may be elected.

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 more information about the Passport Advantage Agreement, visit the Passport Advantage website at

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

**IBM Operational Support Services - SoftwareXcel**

No

**System i Software Maintenance applies**

No

**Variable charges apply**

No

**Educational allowance available**

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

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## Statement of good security practices

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

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## Prices

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Information on charges is available at

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

Choose the option entitled Purchase/upgrade tools.

Program name: IBM Real-Time Compression Software  
Base  
Software V4  
PID: 5639-RCA

Use-based OTC  
with One-year  
Software Maintenance

Description	Program number	Feature number
IBM Real-time Compression BSW+1YRSWM/Decimal TB IBM Real-time Compression Base SW Per Decimal Terabyte with 1 Year SW Maintenance	5639-RCA	0001

Program name: IBM Real-Time Compression Software  
Base  
Software Maintenance

One-year Registration

PID: 5639-RC1

Description	Program number	Feature number
IBM Real-time Compression 1Yr BSW Reg/Decimal TB IBM Real-time Compression Base SW One-year Registration No charge per Decimal Terabyte	5639-RC1	0001

Program name: IBM Real-Time Compression Software  
Base  
Software Maintenance

Two-year Registration

PID: 5639-RC2

Description	Program number	Feature number
IBM Real-time Compression 2Yr BSW Reg/Decimal TB IBM Real-time Compression Base SW Two-year Registration One-time charge per Decimal Terabyte	5639-RC2	0001

Program name: IBM Real-Time Compression Software  
Base  
Software Maintenance

Three-year Registration

PID: 5639-RC3

Description	Program number	Feature number
IBM Real-time Compression 3Yr BSW Reg/Decimal TB IBM Real-time Compression Base SW Three-year Registration One-time charge per Decimal Terabyte	5639-RC3	0001

Program name: IBM Real-Time Compression Software  
Base  
Software Maintenance

Four-year Registration

PID: 5639-RC4

Description	Program number	Feature number
IBM Real-time Compression 4Yr BSW Reg/Decimal TB IBM Real-time Compression	5639-RC4	0001

Base SW  
Four-year Registration  
One-time charge  
per Decimal Terabyte

Program name: IBM Real-Time Compression Software  
Base  
Software Maintenance

Five-year Registration

PID: 5639-RC5

Description	Program number	Feature number
IBM Real-time Compression 5Yr BSW Reg/Decimal TB IBM Real-time Compression Base SW Five-year Registration One-time charge per Decimal Terabyte	5639-RC5	0001

### **Passport Advantage**

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

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

### **Pricing terms**

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Prices in the following PDF prices link are suggested list prices on day of announcement for the U.S. only. They are provided for your information only. Dealer prices may vary, and prices may also vary by country. IBM list price does not include tax or shipping and is subject to change without notice.

[ENUS-213-016-LIST\\_PRICES\\_2013\\_02\\_05.PDF](#)

### **IBM Global Financing**

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IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

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

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For more financing information, visit

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## Order now

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

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Phone: 800-IBM-CALL (426-2255)  
Fax: 800-2IBM-FAX (242-6329)  
Internet: [callserv@ca.ibm.com](mailto:callserv@ca.ibm.com)  
Mail: IBM Teleweb Customer Support  
ibm.com® Sales Execution Center, Americas North  
3500 Steeles Ave. East, Tower 3/4  
Markham, Ontario  
Canada  
L3R 2Z1

Reference: YE001

The Americas Call Centers, our national direct marketing organization, can add your name to the mailing list for catalogs of IBM products.

**Note:** Shipments will begin after the planned availability date.

### **IBM Software Value Plus**

These products are available under IBM Software Value Plus, either directly from IBM or through authorized Business Partners who invest in skills and high-value solutions. IBM customers may benefit from the industry-specific or horizontal solutions, skills, and expertise provided by these Business Partners.

Additions to Software Value Plus will be communicated through standard product announcements. For a current list of IBM software available under Software Value Plus, visit

[http://www.ibm.com/partnerworld/page/svp\\_authorized\\_portfolio\\_criteria](http://www.ibm.com/partnerworld/page/svp_authorized_portfolio_criteria)

For questions regarding Software Value Plus, visit

[http://www.ibm.com/partnerworld/page/svp\\_authorized\\_portfolio\\_contacts](http://www.ibm.com/partnerworld/page/svp_authorized_portfolio_contacts)

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