



# IBM Copy Services Manager V6.1 for z Systems replication management solution delivers simplified, automated, and central control of your replication environment

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## At a glance

IBM<sup>(R)</sup> CSM for z Systems<sup>TM</sup> is a replication management solution based on Tivoli<sup>(R)</sup> Productivity Center Replication for z (TPC-R) technology that delivers central control of your replication environment while helping to simplify and automate your complex replication tasks. Using CSM, you can coordinate copy services on IBM Storage including DS8000<sup>(R)</sup>, DS6000<sup>TM</sup>, SVC, Storwize<sup>(R)</sup> V7000, and XIV<sup>(R)</sup>. Additionally, you can help prevent errors and increase system continuity using source and target volume matching, site awareness, disaster recovery testing, and standby management. CSM improves upon the functionality offered in TPC-R by:

- Adding multi-target support for Metro Mirror and Global Mirror with practice capability
- Supporting over 200 Global Mirror sessions

## Overview

IBM Copy Services Manager (CSM) for z Systems offers all the great the replication management technology in Tivoli Productivity Center Replication for z (TPC-R) and more.

CSM delivers support for the advanced copy services capabilities on the DS8000 and DS6000, in addition to the support for SAN Volume Controller, Storwize V7000, and XIV. This includes automating administration and configuration of these services, operational control (starting, suspending, resuming) of copy services tasks, and monitoring and managing the copy services sessions.

CSM supports Metro Mirror, FlashCopy<sup>(R)</sup>, and Global Mirror on the DS8000 and SAN Volume hardware platforms. Advanced disaster recovery functions are also supported with failover/failback (planned and unplanned) from a primary site to a disaster recovery site. CSM also can monitor the performance of the copy services that provide a measurement of the amount of replication and the amount of time that is required to complete the replication operations. Additionally, CSM supports multi-target for both Metro Mirror and Global mirror, with practice capability. CSM Basic Edition for z Systems enables HyperSwap<sup>(R)</sup> on z/OS<sup>(R)</sup>, which allows the management of disk replication services using an intuitive GUI on z/OS systems.

By using CSM for copy services management on the IBM DS storage devices, for example, tasks that took up to five steps can be accomplished in just one. The practice session in CSM enables you to test your disaster recovery environment without interfering with daily operations. This means you can run a practice session before you perform the actual action. CSM also improved functionality to support over 200 Global Mirror sessions to help your data mining efforts.

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## Key prerequisites

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None

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## Planned availability date

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December 11, 2015

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## Description

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IBM CSM for z Systems is a replication management solution based on TPC-R technology that delivers central control of your replication environment using simplified and automated complex replication tasks. Using CSM, you can coordinate copy services on IBM Storage including DS8000, DS6000, SVC, Storwize V7000, and XIV. Additionally, you can help prevent errors and increase system continuity using source and target volume matching, site awareness, disaster recovery testing, and standby management. CSM improves upon the functionality offered in TPC-R with multi-target support for Metro Mirror and Global Mirror with practice capability and support for over 200 Global Mirror sessions.

CSM is simple to use, reduces the number of steps required for many copy services management activities, and has many added benefits over other replication methods. Commands are efficient and easy to understand. An active and a standby server can be set up to enable server redundancy. You can define default port pairings for logical paths on DS8000 Storage Systems. Progress reports of the copies within the sessions are available within reports. You can help insure visibility by setting up recovery point objective (RPO) warnings and severe threshold alerts. The RPO data can be exported in csv format for easy analysis.

Safety features are built-in with CSM. This includes prompts or warnings before an action is executed, defined user roles to help prevent unapproved actions, volume protection capability, and site awareness to help prevent incorrect hardware relationships.

CSM is well-integrated with z Systems. The server function runs in a z address space. You can use FICON<sup>(R)</sup> for FICON-attached volumes without a TCP/IP connection when the system mover is present (TCP/IP can be used for non-FICON attached volumes). Hardened freeze support ensures consistency can be maintained for a Metro Mirror session even when there is loss of access to the CSM server. So the z Systems storage administrator can monitor both mainframe (ECKD<sup>TM</sup>) DASD volumes and non-mainframe (FBA) disk volumes.

CSM provides the ability to manage HyperSwap, Metro Mirror with HyperSwap, and Metro Global Mirror with HyperSwap when all primary and secondary devices are defined to z Systems with available paths. HyperSwap provides continuous availability by handling both a planned or an unplanned automatic swap of I/O requests from the primary to secondary site for Metro Mirror pairs. Operator interaction is not required making this nondisruptive to the application. *Basic* is an entitled version of CSM on z Systems for HyperSwap continuous availability support without disaster recovery capabilities. Metro Mirror with HyperSwap and Metro Global Mirror with HyperSwap support adds in disaster recovery capabilities along with the high availability of HyperSwap in both a two- and three-site solution. Once

CSM loads the configuration, swap by command or event can be managed directly from z Systems. The same IOS component handles the actual swap as with IBM Geographically Dispersed Parallel Sysplex™ (GDPS®). This HyperSwap is coordinated across the sysplex and can also be managed through CSM from a remote server.

By using CSM for your copy services management, you can help reduce your workload through less commands and improve safety through pre-command execution warnings and user roles. The integration of CSM with z systems and support for metro Mirror, Global Mirror, and HyperSwap help ensure your replication is managed in a single place and in an efficient manner.

### Trade-up ordering information

Current licensees of the IPLA replaced program, IBM Tivoli Storage Productivity Center for Replication for System z<sup>®</sup> (5698-Z11) with active Subscription and Support (5698-S1A) are eligible to trade-up to the IPLA replacement program, IBM Copy Services Manager for z Systems V6.1 (5698-E01). All IPLA replaced program entitlements being traded in must be terminated. In some cases, the IPLA replaced program entitlements may not be the same as the IPLA replacement program entitlement. For example, if the customer has 100 Value Units entitlement of IPLA replaced program A and is trading up to 90 Value Units of entitlement to the IPLA replacement program, the customer must terminate all 100 Value Units entitlement of IPLA replaced Program A. Current licensees interested in trading up should contact their IBM Sales representative.

IBM Tivoli Productivity Center for Replication Basic Edition, 5698-Z12, is not eligible for trade up. However, clients are encouraged to move to CSM for z Basic Edition at the expiration date of their current subscription and support for TPC-R Basic Edition.

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## Program number

Program number	VRM	Program name
5698-E01	6.1.0	IBM Copy Services Manager for z Systems V6.1
5698-E03	1.1.0	IBM Copy Services Manager for z Systems S&S
5698-E02	6.1.0	IBM Copy Services Manager Basic Edition for z Systems V6.1
5698-E04	1.1.0	IBM Copy Services Manager Basic Edition for z Systems S&S

### Product identification number

Program PID number	Subscription and Support PID number
5698-E01	5698-E03
5698-E02	5698-E04

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## Offering Information

Product information is available via the Offering Information website

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

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## Publications

The following publications can be ordered from IBM Publications Center immediately:

<b>Title</b>	<b>Order number</b>
IBM Copy Services Manager User's Guide Version 6.1	SC27-8542
IBM Copy Services Manager Installation and Configuration Guide Version 6.1	SC27-8543

The IBM Publications Center portal is located at

<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. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

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## Services

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### Global Technology Services

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

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## Technical information

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### Specified operating environment

#### **Hardware requirements**

None.

#### **Software requirements**

None.

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. Such information is provided subject to the following 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, misappropriated, or misused, or can result in damage to or misuse of your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service, or security measure can be completely effective in preventing improper use or access. IBM systems, products, and services are designed to be part of a lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

**Important:** IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

#### **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. Read about the Electronic Support portfolio of tools

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

Access the IBM Support Portal

<https://www.ibm.com/support/entry/portal/support>

Access the online Service Request tool

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

## Planning information

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### **Packaging**

This offering is delivered through the Internet through Shopz.

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.

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## Ordering information

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Consult your IBM representative.

The following program in this announcement has Value Unit-Based pricing:

Program number	Program name	Value Unit exhibit
5698-E01	IBM Copy Services Manager for System z V6.1	VUE027

For each z Systems IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Your required license capacity is based upon the following factors:

- The z Systems IPLA program you select
- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

### **Value Unit exhibit VUE027**

Cumulative usage level	Value Units per TB
1 - 12 TB	1 VU/TB
13 - 32 TB	0.8455 VUs/TB
33 - 64 TB	0.6137 VUs/TB
65 - 100 TB	0.4639 VUs/TB
101 - 250 TB	0.3870 VUs/TB
251+ TB	0.3097 VUs/TB

### **Ordering z/OS through the Internet**

Shopz provides an easy way to plan and order your z/OS ServerPac or CBPDO. It will analyze your current installation, determine the correct product migration, and present your new configuration based on z/OS. Additional products can also be added to your order (including determination of whether all product requisites are satisfied). Shopz is available in the US and several countries in Europe. In countries where Shopz is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the Shopz website at

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

## Trade-up ordering information

Current licensees of the IPLA replaced program, IBM Tivoli Storage Productivity Center for Replication for System z (5698-Z11) with active Subscription and Support (5698-S1A) are eligible to trade-up to the IPLA replacement program, IBM Copy Services Manager for z Systems V6.1 (5698-E01). All IPLA replaced program entitlements being traded in must be terminated. In some cases, the IPLA replaced program entitlements may not be the same as the IPLA replacement program entitlement. For example, if the customer has 100 Value Units entitlement of IPLA replaced program A and is trading up to 90 Value Units of entitlement to the IPLA replacement program, the customer must terminate all 100 Value Units entitlement of IPLA replaced Program A. Current licensees interested in trading up should contact their IBM Sales representative.

IBM Tivoli Productivity Center for Replication Basic Edition, 5698-Z12, is not eligible for trade up. However, clients are encouraged to move to CSM for z Basic Edition at the expiration date of their current subscription and support for TPC-R Basic Edition.

## Charge metric

Program name	Part number or PID number	Charge metric
IBM Copy Services Manager for z Systems V6.1	5698-E01	Per Value Unit (TB)
IBM Copy Services Manager Basic Edition for z Systems V6.1	5698-E02	Per machine

## Value units

A Value Unit (VU) is the metric by which this software's license entitlements are obtained. Value Unit entitlements are based on the quantity of a specific designated measurement, for example MSUs, Users Engines, Tape Drives, etc., for the given software. The appropriate number of entitlements must be obtained for the appropriate number of Value Units required for your environment as defined by the specific software terms. The Value Unit entitlements are specific to the software and may not be exchanged, interchanged, or aggregated with Value Unit entitlements of another software program.

## Terabyte

Terabyte is a unit of measure by which the Program can be licensed. A Terabyte is 10 to the 12th power bytes. Licensee must obtain an entitlement for each Terabyte of storage available to the Program.

## Machine

A machine is a server and a unit of measure by which the program can be licensed.

A server is a physical computer that is comprised of processing units memory, and input/output capabilities and that executes requested procedures, commands, or applications for one or more users or client devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (e.g., a blade or a rack-mounted device) that has the required components is considered itself a separate server. For the purpose of server-based licensing licensee must obtain entitlements for each server which is made available to the program, regardless of the number of processor cores and/or partitions in the server or the number of copies of the program on the server

For more detailed information about z Systems software pricing, visit

<https://www-03.ibm.com/systems/z/resources/swprice/zipla/index.html>

## Basic license

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

Program name: IBM Copy Services Manager for z Systems V6

Program PID: 5698-E01 6.1.0

Entitlement identifier	Description	License option/Pricing metric
S017SN1	IBM Copy Services Manager for z Systems V6.1	Basic OTC, Value Units
	Trade-up from 5698-Z11 IBM Tivoli Storage Productivity Center for Replication for System z V5	
Orderable supply ID	Language	Distribution medium
S017SN0	MUL (multilingual)	3590 Tape

**Subscription and Support PID: 5698-E03**

Entitlement identifier	Description	License option/Pricing metric
S017WXT	IBM Copy Services Manager for z Systems S&S	Basic MSC, per Value Unit SW S&S
		No charge, decline SW S&S
Orderable supply ID	Language	Distribution medium
S017WXS	MUL (multilingual)	Paper

Program name: IBM Copy Services Manager Basic Edition for z Systems V6.1

Program PID: 5698-E02 6.1.0

Entitlement identifier	Description	License option/Pricing metric
S017WXV	IBM Copy Services Manager Basic Edition for z Systems V6.1	Basic OTC, Per Machine
Orderable supply ID	Language	Distribution medium
S017SN3	MUL (multilingual)	3590 Tape

**Subscription and Support PID: 5698-E04**

Entitlement identifier	Description	License option/Pricing metric
S017WXZ	IBM Copy Services Manager Basic Edition for z Systems S&S	Basic MSC, per Machine SW S&S
		No charge, decline SW S&S
Orderable supply ID	Language	Distribution medium
S017WXX	MUL (multilingual)	Paper

**Subscription and support (S&S)**

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The license includes one year of S&S. S&S renewal in one year increments is automatic unless specifically cancelled. The capacity of S&S (Value Units) must be the same as the capacity ordered for the product licenses. To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option. This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone.

- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA S/390<sup>(R)</sup> and System z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order BOTH the license for the program AND the support for the selected programs at the same Value Unit quantities.

## **Customized Offerings**

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Product deliverables are shipped only via CBPDO, ServerPac, SystemPac, FunctionPac, and ProductPac<sup>(R)</sup>.

All of these customized offerings are offered for Internet delivery in countries where Shopz product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the Shopz help information at

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

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options include:

- 3590
- 3592

Most products can be ordered in ServerPac, SystemPac, FunctionPac, and ProductPac the month following their availability in CBPDO. z/OS can be ordered via CBPDO, ServerPac, and SystemPac at general availability. Many products will also be orderable in a Product ServerPac without also having to order the z/OS operating system or subsystem. Shopz and CFS W will determine the eligibility based on product requisite checking. For more details on the product ServerPac, visit the Help section on the Shopz website at

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

For additional information on the Product ServerPac option, refer to Software Announcement [ZP12-0358](#), dated July 7, 2012.

Production of software product orders will begin on the planned general availability date.

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability.
- SystemPac, FunctionPac and ProductPac shipments will begin four weeks after general availability due to additional customization, and data input verification.

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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<sup>(R)</sup> Agreement, and the IBM Agreement for Acquisition of Software Maintenance.



## Licensing

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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.

## Agreement for Acquisition of Software Maintenance

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The following agreement applies for Software Subscription and Support (Software Maintenance) and does not require customer signatures:

- IBM Agreement for Acquisition of Software Maintenance (Z125-6011)

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. 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. IBM z Systems Operational Support Services - Support Line is an option if you desire added services.

## License Information number

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Program name	Part number or PID number	License information
IBM Copy Services Manager for z Systems V6.1	5698-E01	LC27-8574-00
IBM Copy Services Manager Basic Edition for z Systems V6.1	5698-E02	LC27-8574-00

The program's License Information will be available for review on the IBM Software License Agreement website

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

## Limited warranty applies

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Yes

## Limited warranty

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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

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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.

### **Volume orders (IVO)**

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No

### **Passport Advantage applies**

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No

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

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Yes. During the S&S period, for the unmodified portion of a Program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

- Defect correction information, a restriction, or a bypass.
- Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements and new versions and releases to the Program and documentation.
- Technical assistance: A reasonable amount of remote assistance via telephone or electronically to address suspected Program defects. Technical assistance is available from the IBM support center in the Customer's geography.

Additional details regarding Technical Assistance, that includes IBM contact information, are provided in the *IBM Software Support* at

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

S&S does not include assistance for:

- The design and development of applications
- Customer's use of Programs in other than their specified operating environment, or
- Failures caused by products for which IBM is not responsible under the IBM Agreement for Acquisition of Software Maintenance.

S&S is provided only if the Program is within its support timeframe as specified in the Software Support Lifecycle policy for the Program.

For operating system software, the revised IBM Operational Support Services - Support Line offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

<http://www.ibm.com/services/sl/products>

### **System i Software Maintenance applies**

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No

### **Variable charges apply**

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No

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### **Educational allowance available**

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Educational allowance does not apply.

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### **ESAP available**

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Yes, to qualified 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 lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

**Important:** IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

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## **Prices**

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For all local charges, contact your IBM representative.

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## **Announcement countries**

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All European, Middle Eastern, and African countries except Islamic Republic of Iran, Sudan, and Syrian Arab Republic.

### ***Trademarks***

z Systems, DS6000, IBM z Systems, ECKD and Geographically Dispersed Parallel Sysplex are trademarks of IBM Corporation in the United States, other countries, or both.

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[Terms of use](#)

For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

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

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## Corrections

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**(Corrected on July 10, 2017)**

The information under the Terabyte heading in the Ordering information section has been updated.