IBM Enterprise COBOL Developer Trial for z/OS, V6.1 delivers new and enhanced COBOL statements for added functionality and flexibility

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At a glance

IBM(R) Enterprise COBOL Developer Trial for z/OS(R), V6.1, an evaluation edition of Enterprise COBOL for z/OS, is a no-charge offering and does not initiate a Single Version Charging (SVC) period.

Enterprise COBOL Developer Trial lets you assess the value that could be gained from migrating to Enterprise COBOL for z/OS, V6.1, before making a formal decision to upgrade. This trial enables the evaluation of the latest IBM COBOL capabilities, in a nonproduction environment, without the prerequisite time and resource commitments that are required for a full-production migration project. The trial period is 90 days.

Enterprise COBOL Developer Trial for z/OS, V6.1 exploits the capabilities of IBM z/Architecture(R) and continues to add the following new features and enhancements:

- The compiler internals are enhanced so that you can compile your large programs.
- New and changed COBOL statements are included to provide you with added functions.
- New and changed compiler options are implemented to provide you with added flexibility.
- The ARCH compiler option allows you to exploit and tune your code to run on your choice of z/Architecture levels of the z/OS platform.
- The OPTIMIZE compiler option allows you to select from multiple levels of increasing optimization for your code.
- Support is provided for the latest middleware includes IBM CICS(R), IBM DB2(R), and IBM IMS(TM).

For ordering, contact your IBM representative or IBM Business Partner. For more information, contact the Americas Call Centers at: 800-IBM-CALL (426-2255).
Reference: LE001

Overview

Enterprise COBOL for z/OS is a leading-edge, z/OS-based compiler that helps you create and maintain mission-critical, line-of-business COBOL applications to execute on your z/OS systems. Enterprise COBOL for z/OS gives you access to CICS, DB2, IMS, and other transactional and data systems.
Enterprise COBOL Developer Trial for z/OS, V6.1 can be used to evaluate, in nonproduction environments, the value that could be gained from migrating to the Enterprise COBOL for z/OS, V6.1 compiler. The trial lets you try the latest compiler before committing additional time and resources to a full production migration project to Enterprise COBOL for z/OS, V6.1.

Enterprise COBOL Developer Trial for z/OS contains the full set of Enterprise COBOL, V6.1 compiler features and functions. This includes the increased capacity to compile large COBOL applications and also the new and changed COBOL statements and compiler options that were introduced in Version 6.1. The developer trial also contains the code generation and optimization technology that was introduced in Version 5.1 and Version 5.2.

This developer trial is delivered with restricted licensing terms and an expiry date and is only permitted for use in a nonproduction environment. The period of the Trial is 90 days.

Enterprise COBOL Developer Trial for z/OS, V6.1 is available from IBM through Shopz as a standard offering. In countries where Shopz is not available, contact your IBM representative (or IBM Business Partner) to handle your order through the traditional IBM ordering process.

Over the course of multiple releases, Enterprise COBOL for z/OS offered new and enhanced functions to provide you with the tools needed to modernize and maintain applications to meet your critical, business needs. The following are some of the new and improved features and functions delivered within Version 6.1:

- Increased compiler capacity so that you can compile large programs
- Support for generation of JSON texts
- New and changed COBOL statements for increased functionality
- New and changed COBOL options for increased flexibility
- Changed APIs in the LE vendor interface
- Changed run-time behavior
- Performance tuning for a number of COBOL statements

Enterprise COBOL for z/OS, V6.1 continues the IBM commitment to the COBOL programming language on the z/OS platform through investment in new compiler technology and the delivery of new features, many of them client requested. With Enterprise COBOL for z/OS, V6.1, you gain the benefit of new investment combined with more than 50 years of IBM experience in compiler development.

**Key prerequisites**

Enterprise COBOL Developer Trial for z/OS, V6.1 requires z/OS V2.1 (5650-ZOS), or later.

For additional details, refer to the Software requirements section.

**Planned availability date**

March 18, 2016

**Description**

**Evaluate the IBM COBOL compiler by first using the Enterprise COBOL Developer Trial for z/OS, V6.1**

With Enterprise COBOL Developer Trial for z/OS, V6.1, you can evaluate the latest capabilities of IBM Enterprise COBOL for z/OS, V6.1 in a nonproduction environment,
before committing time and resources to a production migration project. Assess the
value of moving to this new compiler, before making a decision to formally adopt it.

Enterprise COBOL Developer Trial for z/OS comes with a no charge evaluation
license. Ordering, installing, and using Enterprise COBOL Developer Trial in a
nonproduction environment does not initiate any Single Version Charging (SVC)
period.

Enterprise COBOL Developer Trial for z/OS is a fully functional program that can be
used to conduct. Proof of Technology evaluations that cover the full set of Enterprise
COBOL for z/OS, V6.1 capabilities.

Enterprise COBOL Developer Trial for z/OS is to be used only for internal evaluation,
testing, or demonstration purposes, and is not for production purposes. Use of the
trial compiler to develop production applications is not allowed. The license provides
for a 90-day trial period. The trial is provided without formal program support. Your
comments and inquiries can be submitted through normal service channels by using
the Enterprise COBOL Developer Trial product ID and your customer number. Note
that this Developer Trial is provided under the International License Agreement for
Evaluation of Programs.

**Enterprise COBOL for z/OS, V6.1**

Enterprise COBOL for z/OS, V6.1 incorporates leading-edge code generation
and optimization technology to maximize hardware utilization, and help improve
application performance. Version 6.1 delivers new COBOL statements, new and
changed compiler options, and changed APIs while adding capacity and performance
improvements.

- **Capacity improvements.** The capacity of the compiler internals has been
  expanded to allow for the compilation and optimization of large programs. You
can now use Version 6.1 to compile much larger programs including COBOL
programs that are created by code generators.
- **New COBOL statements**
  - ALLOCATE statement. Obtains dynamic storage.
  - FREE statement. Releases dynamic storage that was previously obtained with
    an ALLOCATE statement.
- **JSON GENERATE statement.** Converts data to JSON format.
- **Changed COBOL statements**
  - Enhanced INITIALIZE. Supports the 2002 and 2014 COBOL standards.
  - The INITIALIZE statement sets selected categories of data fields to
    predetermined values. The INITIALIZE statement is functionally equivalent to
    one or more MOVE statements. New clauses from the 2002 and 2014 COBOL
    standards are added as follows:
    -- WITH FILLER
    -- TO VALUE
    -- THEN TO DEFAULT
- **New COBOL options**
  - VSAMOPENFS(COMPAT|SUCC). Allows to change File Status=97 into File
    Status=00 for certain VSAM OPEN statements.
  - SUPPRESS|NOSUPPRESS. Enables or disables the SUPPRESS phrase of COPY
    statements.
- **Changed COBOL options**
  - SSRANGE(ZLEN|NOZLEN). Allows a 0-length reference modification.
  - ZONECHECK. Improves the diagnostic message for the ZONECHECK(MSG)
    compiler option by adding the data item contents for the offending data
    item and also adding the program name of the program that contained the
    offending data item.
  - ZONEDATA. A new suboption, NOPFD, is added to the ZONEDATA compiler
    option. ZONEDATA(NOPFD) tells the compiler to generate code that performs
comparisons of zoned decimal data in a manner similar to previous COBOL versions to help tolerate cases of invalid zoned decimal data.

Removed or replaced COBOL options

- Compiler option LVLINFO has been removed and instead, IBM supplies compiler build level information. This build level information is placed in locations that previously held the following LVLINFO data:
  - Listing header
  - Signature information bytes
  - ADATA field called PTF Level

- Changed APIs
  - LE Vendor Interface - IGZXAPI. Enhanced with the new function code 8 to request information about a COBOL program's WORKING-STORAGE section.

- Changed runtime behavior.
  - WORKING-STORAGE section is acquired from HEAP storage, and is managed more efficiently by initializing it when the corresponding COBOL program is being called. The STORAGE run time option will affect the WORKING-STORAGE section. In previous versions, the WORKING-STORAGE section was initialized when the program object is being loaded, regardless of whether the COBOL program will actually be called later. Also, sometimes WORKING-STORAGE was not acquired from HEAP, and in those cases the STORAGE option did not affect WORKING-STORAGE.

- Performance improvements
  - Reduced storage requirements and performance tuning is implemented in Table SORT.
  - Performance tuning is done for INSPECT, UNSTRING, and SEARCH ALL

Product positioning

Enterprise COBOL is a premier, enterprise-class COBOL compiler for the z/OS system. It is a proven and reliable program that delivers innovation for modernizing business-critical applications and programming features to increase programmer productivity, and bolster the overall benefits of transactional and data systems, such as CICS, IMS, and DB2.

z Systems™ hardware becomes increasingly complex. Enterprise COBOL for z/OS and its companion Enterprise COBOL Developer Trial for z/OS deliver advanced compiler support to allow you to fully benefit from hardware advancements. With the introduction of the ARCH and enhanced OPTIMIZE compiler options, the Enterprise COBOL for z/OS compiler is now capable of unleashing the full power of IBM processors that are delivered in the various models of z Systems hardware. COBOL programmers no longer need a deep understanding of z/Architecture to exploit leading-edge performance of new z Systems hardware. Developers only need to focus on the logic of the applications and let the compiler determine the best way to transform and optimize the code generation for the z Systems hardware on which the application will run.

With Enterprise COBOL for z/OS, you increase the return on your hardware and middleware investments. With the implementation of advanced code generation and optimization technology, Enterprise COBOL for z/OS establishes a foundation for delivery of additional optimization features and exploitation of future z/Architecture.

With its enhanced capabilities, simplified programming, and increased programmer productivity, you can continue to use Enterprise COBOL for z/OS to modernize existing business-critical applications. Modernization enables the reuse of your proven business logic. You can deliver new enhancements quicker, with less cost and lower risk. You can add modern GUIs to business-critical COBOL applications or extend them to work with web, cloud, or mobile infrastructures. Because it is built on proven applications, there is no need for you to write from scratch.
With the investment in new compiler technology and the continued delivery of new features, many of them client requested, Enterprise COBOL for z/OS, V6.1 reaffirms the IBM commitment to COBOL on z/OS. You gain the benefit of new investment combined with more than 50 years of IBM experience in compiler development.

### Program number

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### Product identification number

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### Offering Information

Product information is available on the IBM Offering Information website.

### 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).

BP Attachment for Announcement Letter 216-060

### Publications

#### Publications

**Hardcopy publications that are available with the program**

The following are supplied automatically with the basic machine-readable material:

- License Information (provided on CD-ROM) (LC27-8709)
- Program Directory (GI13-4527)

**Softcopy publications that are available from Information Centers**

Links to PDF and xhtml version of the Enterprise COBOL for z/OS, V6.1 documentation (Equivalent to Enterprise COBOL Developer Trial for z/OS, V6.1) are available at the Information Center.

**Hardcopy publications that are available from the Publication Center**

The following publications can be ordered from the IBM Publications Center portal after planned availability. To order, use the Publications Center or contact your IBM representative.

The following publications can be ordered from the IBM Publications Center portal after planned availability. To order, use the Publications Center contact your IBM representative.

<table>
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<tr>
<td>Program Directory</td>
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The IBM Publications Center portal is located at the [IBM Publications Center](https://www.ibm.com) website.

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.

**Services**

**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, go to the [IBM Software Services](https://www.ibm.com) website.

**Technical information**

**Specified operating environment**

**Hardware requirements**

Enterprise COBOL Developer Trial for z/OS, V6.1 runs on the following IBM z Systems™ servers:

- z13™ or z13s
- zEnterprise® EC12 or zEnterprise BC12
- zEnterprise 196 or zEnterprise 114
- z10™ Enterprise Class or z10 Business Class
- z9® Enterprise Class or z9 Business Class

**Software requirements**

Enterprise COBOL for Developer Trial z/OS, V6.1 runs under the control of, or in conjunction with, the currently supported releases of the following programs and their subsequent releases or their equivalents. For more information on the following programs listed that require program temporary fixes (PTFs), refer to the Program Directory and the preventive service planning (PSP) bucket. It requires:

- z/OS V2.1 (5650-ZOS), or later

For installation on z/OS, z/OS SMP/E element is required.

For customization during or after installation, z/OS High Level Assembler is required.

Enterprise COBOL XML PARSE statements in programs that are compiled with the XMLPARSE(XMLSS) compiler option require z/OS XML System Services V2.1.

**Optional licensed programs**

Depending on the functions used, one or more of the following programs may be required:

- IBM CICS Transaction Server for z/OS, V5 (5655-Y04)
- CICS Transaction Server for z/OS Value Unit Edition, V5 (5722-DFJ)
• CICS Transaction Server for z/OS, V4 (5655-S97)
• DB2 11 for z/OS (5615-DB2)
• DB2 11 for z/OS Value Unit Edition (5697-P43)
• DB2 10 for z/OS (5605-DB2)
• DB2 10 for z/OS Value Unit Edition (5697-P31)
• IMS V13 (5635-A04)
• IMS Transaction Manager Value Unit Edition V13 (5655-TM2)
• IMS Database Value Unit Edition V13 (5655-DSM)
• IMS V12 (5635-A03)
• IMS Transaction Manager Value Unit Edition V12 (5655-TM1)
• IMS Database Value Unit Edition V12 (5655-DSQ)
• IBM DFSORT element of z/OS V2 (5650-ZOS)
• IBM High Level Assembler/MVS and VM and VSE (5696-234)
• IBM 31-bit SDK for z/OS, Java™ Technology Edition V8.0 (5655-DGG)
• IBM 31-bit SDK for z/OS, Java Technology Edition V7.0 (5655-W43)
• IBM 31-bit SDK for z/OS, Java Technology Edition V6.0 (5655-R31)
• z/OS V2.1 Client Web Enablement Toolkit (5650-ZOS - APAR Number OA46575)
• IBM Debug Tool for z/OS, V13.1 (5655-Q10)
• IBM Fault Analyzer for z/OS, V13.1 (5655-Q11)
• IBM File Manager for z/OS, V13.1 (5655-Q12)
• IBM Application Performance Analyzer for z/OS, V13.1 (5655-Q09)
• IBM Rational® Developer for z Systems, V9.5 (5724-T07)
• COBOL Report Writer Release 4 (5798-DYR, 5798-DZX)
• Enterprise COBOL for z/OS, V5 (5655-W32)
• Enterprise COBOL for z/OS, V4 (5655-S71)
• Enterprise PL/I for z/OS, V4 (5655-W67)
• Enterprise PL/I for z/OS, V3 (5655-H31)
• For XL C/C++ with Enterprise COBOL: You must use the XL C/C++ feature of z/OS V2.1 (5650-ZOS), or later
• IBM VS FORTRAN V2 (5668-806, 5688-087)

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**

None.

**Compatibility**

Enterprise COBOL for z/OS Developer Trial V6.1 provides a high level of source compatibility, object compatibility, and runtime compatibility with earlier versions of IBM COBOL.

The Enterprise COBOL Developer Trial, V6.1 source is compatible with earlier versions of IBM COBOL, in that the compiler will compile correct, COBOL source programs that were developed by using Enterprise COBOL V5, Enterprise COBOL V4, or earlier, with the exception of obsolete functions that are removed and the addition of new reserved words. The removed functions include obsolete COBOL language syntax and obsolete compiler options. Complete details on removed obsolete functions are documented in the *Enterprise COBOL for z/OS Version 6.1 Migration Guide*. IBM does not expect that many applications will be affected by the removed
functions, which in practice are no longer heavily used. To assist in migration, a new compiler option FLAGMIG is added to Enterprise COBOL V4.2 through the service stream. This option provides warning diagnostics to flag use of obsolete syntax and options in existing COBOL programs.

Enterprise COBOL Developer Trial, V6.1 is compatible with earlier versions of IBM COBOL, in that applications can be constructed by using a mixture of object modules compiled with Version 6.1 and those compiled with earlier versions. Both static calls (calls within a link-edited module) and dynamic calls (calls between programs link-edited as separate modules) can be used. The following are exceptions:

- Interoperation with object modules that were compiled with OS/VS COBOL (5740-CB1) is no longer supported.
- Interoperation with object modules that were compiled with VS COBOL II (5688-958) is limited to programs compiled with the RES compiler option. Interoperation with VS COBOL II programs compiled with the NORES option is no longer supported.

Enterprise COBOL Developer Trial, V6.1 is runtime compatible with earlier versions of IBM COBOL. This means that COBOL programs using valid data will continue to produce the same runtime results after being recompiled with Enterprise COBOL Developer Trial for z/OS, V6.1. A small number of exception cases are documented in the Enterprise COBOL for z/OS Version 6.1 Migration Guide.

Planning information

Packaging

For information on the functional capabilities of Enterprise COBOL for z/OS, V6.1, refer to Software Announcement 216-059, dated February 16, 2016.

Security, auditability, and control

The announced program uses the security and auditability features of the host operating system software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

**Enterprise COBOL Developer Trial for z/OS, V6 (5655-TY6)**

*Basic license one-time charge*

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**Enterprise COBOL Developer Trial for z/OS, S&S (5655-BUY)**

*Basic license one-time charge*

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**Charge metric**

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**Authorized User**

Authorized User is a unit of measure by which the program can be licensed. An Authorized User is a unique person who is given access to the program. The program may be installed on any number of computers or servers and each Authorized User may have simultaneous access to any number of instances of the program at one time. Licensee must obtain separate, dedicated entitlements for each Authorized User given access to the program in any manner directly or indirectly (for example, through a multiplexing program, device, or application server) through any means. An entitlement for an Authorized User is unique to that Authorized User and may not be shared, nor may it be reassigned other than for the permanent transfer of the Authorized User entitlement to another person.

**Note:** Some programs may be licensed where devices are considered users. In that case, the following applies. Any computing device that requests the execution of or receives for execution a set of commands, procedures, or applications from the program or that is otherwise managed by the program is considered a separate user of the program and requires an entitlement as if that device were a person.

**Customized Offerings**

Product deliverables are shipped only through CBPDO and ServerPac. 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, go to the Help section on the Shopz website.

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 the month following their availability in CBPDO. z/OS can be ordered through CBPDO and ServerPac 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 CFSW will determine the eligibility based on product requisite checking. For more details on the product ServerPac, go to the Help section on the Shopz website.

For additional information about the Product ServerPac option, refer to Software Announcement 212-272, 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.

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.

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 number

L-JYIP-A6KNJQ

See the License Information documents page on the IBM Software License Agreement website for more information.

A License Document CD-ROM (LDCD) is shipped with the program media. The LDCD identifier is LC27-8709.

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, see the IBM Software 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.

**Volume orders (IVO)**

No

**Passport Advantage applies**

No

**Usage restriction**

Yes

See the License Information documents page on the IBM Software License Agreement website for more information.

**Software Subscription and Support applies**

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 by telephone or electronically to address suspected program defects. Technical assistance is available from the IBM support center in the organization's geography.

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

S&S does not include assistance for:

- The design and development of applications
- Organization's use of program 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 - SoftwareXcel 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, go to the Supported product list website.

**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**

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**

**Business Partner information**

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Information on charges is available on the IBM Support Portal website.

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