



# IBM DB2 for z/OS Value Unit Edition offers one-time-charge price metric for net new workloads on IBM System z

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## At a glance

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DB2 for z/OS Value Unit Edition (DB2 for z/OS VUE), delivers a one-time-charge price metric for Eligible Workloads (net new applications or workloads on System z that are deployed in qualified System z New Application License Charge (zNALC) LPARs).

- Achieve competitive advantage and cost savings by leveraging the unique, industry-leading virtualization and workload management capabilities of DB2 for z/OS and System z.
- Consolidate and grow various workloads onto a single System z, allowing you to save money through simplified system administration and maintenance while lowering power utilization and floor space requirements.
- Take advantage of this exciting new pricing option specifically for applications like ERP, dynamic warehousing, operational business intelligence, WebSphere®, and other commercial applications.

For key capabilities of the two versions of DB2 for z/OS VUE that support the handling of today's new and enterprise on demand applications, refer also to Software Announcement [207-041](#), dated March 6, 2007, and Software Announcement [204-029](#), dated March 2, 2004. **For ordering, contact:**

Your IBM representative or the Americas Call Centers at

**800-IBM-CALL** Reference: LE001

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## Overview

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DB2® for z/OS® Value Unit Edition (DB2 for z/OS VUE) delivers a one-time-charge (OTC) price metric for a database product offering based on DB2 for z/OS. DB2 for z/OS VUE is delivered as:

- DB2 9 for z/OS Value Unit Edition (DB2 9 for z/OS VUE)
- DB2 for z/OS Version 8 Value Unit Edition (DB2 8 for z/OS VUE)

Throughout this announcement, the name DB2 for z/OS VUE is used when the information is relevant to both releases of DB2 for z/OS VUE.

DB2 for z/OS VUE terms limit its use to support of Eligible Workloads (net new applications or workloads as defined below on System z™ that are deployed in qualified zNALC LPARs).

### New with the Value Unit Edition of DB2 for z/OS

Only for use with eligible net new applications or Eligible Workloads:

- Eligible Workloads are defined as workloads that meet the following criteria:

- A workload (excluding applications running under Lotus® Domino®) that includes DB2 for z/OS VUE, where DB2 for z/OS VUE has been qualified and approved through the zNALC qualification process as eligible to run in a zNALC LPAR.
- The workload must be a net new z/OS workload deployed in a zNALC LPAR at the time of licensing DB2 for z/OS VUE, and not an existing z/OS workload that a) is transferred or migrated to the zNALC LPARs from z/OS elsewhere in the enterprise, or b) is already deployed in a zNALC LPAR within the enterprise. For example, an existing z/OS workload that would be or has been shifted across a border from one country to another, or from one data center to another, or that has been renamed or rewritten does not qualify as an Eligible Workload. Workloads that are migrated from non-z/OS sources, such as Linux™, UNIX, or Microsoft® Windows®, may qualify as Eligible Workloads.

Copies of a validly licensed DB2 for z/OS VUE can only be made in support of its authorized use:

- If qualified to be deployed on a single machine, in any zNALC LPARs where the Eligible Workload is deployed for use, or
- If qualified to be deployed within a "Qualified Sysplex," in any zNALC LPARs where the Eligible Workload is deployed for use. "Qualified Sysplex" means a Parallel Sysplex® in which z/OS is eligible for aggregated zNALC charges as described in the **Charges** section of the Attachment for zNALC License Charges on System z.

In addition, a copy can be made for use as a backup copy. If you wish to deploy DB2 for z/OS VUE, or any copy, in any other separate zNALC environment, another DB2 for z/OS VUE license, with its own separate entitlements, has to be acquired.

For more information on zNALC, visit

<http://www-03.ibm.com/servers/eserver/zseries/swprice/znalc.html>

Charges for DB2 for z/OS VUE are based on Value Unit entitlements.

Refer to the Terms and conditions and Prices sections for a description of license and pricing terms.

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## Key prerequisites

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### DB2 9 for z/OS VUE

- DB2 9 for z/OS VUE APAR PK58953
- zNALC APAR OA20314
- z/OS V1.7 Base Services (5694-A01), or later, executing in 64-bit addressing mode
- Any processor that supports z/Architecture™ with some limitations

### DB2 8 for z/OS VUE

- DB2 8 for z/OS VUE APAR PK59924
- zNALC APAR OA20314
- z/OS V1.6 Base Services (5694-A01)

Refer to the Technical information section for details on required microcode levels and to the Hardware requirements and Software requirements sections for all prerequisites.

### Planned availability dates

- February 29, 2008: DB2 9 for z/OS VUE
- March 28, 2008: DB2 8 for z/OS VUE

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## Description

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DB2 for z/OS VUE consists of the base DB2 product with a set of orderable optional features. Optional features of DB2 for z/OS VUE are orderable nonchargeable features:

- **z/OS Application Connectivity to DB2 for z/OS VUE** consists of a component known as the DB2 Universal Database® Driver for z/OS, Java™ Edition. It is a pure Java, type 4 JDBC driver designed to deliver high performance and scalable remote connectivity for Java-based enterprise applications on z/OS to a remote DB2 for z/OS database server.
- **DB2 Management Clients** includes components to assist in the administration of DB2 for z/OS VUE:
  - DB2 Administration Server (z/OS installable component)
  - z/OS Enablement (z/OS installable component)
  - DB2 Connect® Personal Edition Kit (workstation CD), which includes:
    - Control Center
    - Development Center
    - Replication Center

Charges for this program are based on a one-time-charge (OTC) per Value Unit plus a charge per Value Unit to obtain Subscription and Support (S&S). Value Unit entitlements for the program will be computed based on MSUs. The S&S is paid annually at the then-current prices. Usage may not exceed the number of Value Unit entitlements authorized by the applicable Proofs of Entitlement or authorized by each product authorization. If the total number of Value Units exceeds the quantity of Value Unit entitlements in your Proofs of Entitlement, you must notify your IBM representative or IBM Business Partner as stated in the IPLA.

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

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A U.S. 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)

### **Section 508 of the U.S. Rehabilitation Act**

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DB2 for z/OS Value Unit Edition is capable when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A U.S. Section 508 VPAT, containing details on the products accessibility compliance, can be requested at

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

### **Value Unit-based pricing**

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For the Value Unit-based pricing applicable to DB2 for z/OS VUE refer to the Terms and conditions section.

### **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).

BP Attachment for Announcement Letter 208-041

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=208-041>

### Trademarks

System z and z/Architecture are trademarks of International Business Machines Corporation in the United States or other countries or both.

DB2, z/OS, Domino, Lotus, Parallel Sysplex, WebSphere, DB2 Universal Database, and DB2 Connect are registered trademarks of International Business Machines Corporation in the United States or other countries or both.

Microsoft and Windows are registered trademarks of Microsoft Corporation.

Java is a trademark of Sun Microsystems, Inc.

Linux is a trademark of Linus Torvalds in the United States, other countries or both.

Other company, product, and service names may be trademarks or service marks of others.

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## Offering Information

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Product information is available via the Offering Information Web site

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

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## Publications

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<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 or customer number. A large number of publications are available online in various file formats. They can all be downloaded free of charge.

### **DB2® 9 for z/OS® VUE**

One copy of the following DB2 9 for z/OS VUE (5697-P12) publications is shipped with the basic machine-readable material.

#### **DB2 9 for z/OS VUE**

- DB2 Installation Guide (GC18-9846)
- DB2 Licensed Library CD-ROM (LK3T-7195)
- DB2 9 for z/OS VUE License Information (GC19-2414)
- DB2 9 for z/OS VUE Program Directory (GI10-8779)

#### **DB2 9 for z/OS VUE Management Clients Package**

- DB2 Management Clients Package Program Directory (GI10-8780)
- DB2 Connect® Personal Edition (LK5T-7319)

#### **z/OS Application Connectivity to DB2 9 for z/OS VUE**

- z/OS Application Connectivity Program Directory (GI10-8781)

The following optional DB2 9 for z/OS VUE publications are available for ordering immediately:

Title	Order number
DB2 9 for z/OS VUE Administration Guide	SC18-9840
Application Programming Guide and Reference for Java(TM)	SC18-9842
Application Programming and SQL Guide	SC18-9841
Codes	GC18-9843
Command Reference	SC18-9844
Data Sharing: Planning and Administration	SC18-9845

Installation Guide	GC18-9846
Internationalization Guide	SC19-1161
Introduction to DB2 for z/OS	SC18-9847
Messages	GC18-9849
ODBC Guide and Reference	SC18-9850
Performance Monitoring and Tuning Guide	SC18-9851
Reference Summary*	SX26-3854
SQL Reference	SC18-9854
Utility Guide and Reference	SC18-9855
What's New?	GC18-9856
XML Extender Administration and Programming	SC18-9857
XML Guide	SC18-9858

\* Available as hardcopy only.

All of the publications listed above, except What's New (GC18-9856), can be ordered using bill-of-forms number SBOF-7791. Publications designated as "hardcopy only" can be ordered from the IBM Publications Center at

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

The following DB2 9 publications will be available in softcopy format only; they cannot be ordered in hardcopy.

- RACF® Access Control Module
- Reference for Remote DRDA® Requesters and Servers

DB2 9 for z/OS VUE product information, except the licensed documentation, is viewable from the Information Management Software for z/OS Solutions Information Center at

<http://publib.boulder.ibm.com/infocenter/db2zhelp>

**Licensed documentation:** The licensed material can be ordered through the IBM Publications Center. In addition, the Diagnosis Guide and Reference is shipped in a DB2 data set updated during post planned availability maintenance updates. (DSN910.SDSNIVPD data set member DSNDR. FTP the data set to the workstation and open it with Adobe Acrobat Reader.)

Title	Order number
DB2 9 for z/OS	
Diagnostic Guide and Reference	LY37-3218
Diagnostic Quick Reference*	LY37-3219

\* Available as hardcopy only.

Terms and conditions for use of the machine-readable files are shipped with the files.

As part of ongoing efforts to deliver the most current technology and to remove those features that no longer provide our customers with strategic benefits, the BookManager® format for DB2 for z/OS publications have been and will continue to be deprecated in DB2 9. Books that are new to the DB2 9 library as of the planned availability of DB2 for z/OS are not being offered in the BookManager format. The BookManager format may be completely dropped in the future; you should not create any new dependencies that rely on DB2 9 BookManager books, and if you have existing dependencies on them, you should develop plans to remove those dependencies. Subsequent updates (technical newsletters or revisions between releases) to the publications shipped with the product will be distributed to the user of record for as long as a license for this software remains in effect. A separate publication order or subscription is not needed.

One copy of the following DB2 8 for z/OS VUE (5697-N29) publications is shipped with the basic machine-readable material.

#### DB2 8 for z/OS VUE

- DB2 Codes (GC18-9603)
- DB2 Installation Guide (GC18-7418)
- DB2 Licensed Library CD-ROM (LK3T-7128)
- DB2 Messages (GC18-9602)

- DB2 8 for z/OS VUE License Information (GC19-2413)
- DB2 8 for z/OS VUE Program Directory (G110-8784)

#### DB2 8 for z/OS VUE Management Clients Package

- DB2 Management Clients Package CD-ROM (LCD4-6606)
- DB2 Management Clients Package Program Directory (G110-8785)
- DB2 Connect Personal Edition (LK3T-9267)

#### z/OS Application Connectivity to DB2 8 for z/OS VUE

- z/OS Application Connectivity Program Directory (G110-8786)

The following optional DB2 8 for z/OS VUE publications are available for ordering immediately:

Title	Order number
DB2 8 for z/OS VUE Administration Guide	SC18-7413
Application Programming Guide and Reference for Java	SC18-7414
Application Programming and SQL Guide	SC18-7415
Command Reference	SC18-7416
Data Sharing: Planning and Administration	SC18-7417
The Official Introduction to DB2 for z/OS	SC18-7419
ODBC Guide and Reference	SC18-7423
Reference Summary	SX26-3853
Release Planning Guide	SC18-7425
SQL Reference	SC18-7426
Utility Guide and Reference	SC18-7427
What's New?	GC18-7428
IAV Extenders Administration and Programming	SC18-7429
Text Extender Administration and Programming	SC18-7430
XML Extender Administration and Programming	SC18-7431

All of the publications listed above can be ordered using bill-of-forms number XBOF-7786. Publications designated as "hardcopy only" can be ordered from the IBM Publications Center at

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

The following DB2 8 for z/OS VUE publications will be available in softcopy format only; they cannot be ordered in hardcopy. The publications are made available at

<http://www.ibm.com/software/data/db2/os390/library.html>

RACF Access Control Module Guide  
Reference for Remote DRDA Requesters and Servers

**Licensed documentation:** The licensed material can be ordered through the IBM Publications Center. In addition, the Diagnosis Guide and Reference is shipped in a DB2 data set updated during post planned availability maintenance updates. (DSN910.SDSNIVPD data set member DSNDR. FTP the data set to the workstation and open it with Adobe Acrobat Reader.)

Title	Order number
Diagnostic Guide and Reference	LY37-3201
Diagnostic Quick Reference	LY37-3202

Terms and conditions for use of the machine-readable files are shipped with the files.

**Customized Offerings:** Product deliverables are shipped only via Customized Offerings (for example, CBPDO, ServerPac, and SystemPac®). CBPDO and ServerPac are offered for electronic delivery, where ShopzSeries product ordering is available. For more details on electronic delivery, refer to the ShopzSeries help information at

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

Media type for this software product is chosen during the customized offerings ordering process. Based on your customer environment, it is recommended that the highest possible density tape media be selected. Currently offered media types are:

- CBPDOs 3480, 3480 Compressed, 3490E, 3590, 3592<sup>1</sup>
- ServerPacs 3480, 3480 Compressed, 3490E, 3590, 3592<sup>1</sup>
- SystemPacs 3480, 3480 Compressed, 3490E, 3590, 3592<sup>1</sup>

<sup>1</sup> 3592 is the highest density media, which will ship the fewest number of media.

Once a product becomes generally available, it will be included in the next ServerPac and SystemPac monthly update. Production of software product orders will begin on the planned availability date.

- CBPDO shipments will begin one week after planned availability.
- ServerPac shipments will begin two weeks after inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac due to additional customization and data input verification.

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## Technical information

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### Specified operating environment

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**Hardware requirements:** Note that the name DB2 for z/OS VUE is used when information given is applicable to both releases of DB2 for z/OS VUE. DB2 9 for z/OS VUE or DB2 8 for z/OS VUE is used when referring to a specific release.

### Processors and real storage

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The DB2 for z/OS VUE releases operate on any processor that supports z/Architecture™, including zSeries® z800, z890, z900, z990, IBM System z9™, or a comparable processor. The processor must have enough real storage to satisfy the combined requirements of:

- DB2 9 for z/OS VUE or DB2 8 for z/OS VUE
- z/OS
- Other customer-required applications

The following restrictions apply: For z900 systems, microcode level 3G, or later, is required.

For more information about how to determine or upgrade your microcode level, you can search for technotes on this subject in one of the following places:

- At the DB2 for z/OS Support site at  
<http://www.ibm.com/software/db2zos/support.html>
- On the Web search page (under "Troubleshooting and support") in the Information Management Software for z/OS Solutions Information Center at  
<http://publib.boulder.ibm.com/infocenter/imzic>

In addition, for DB2 8 for z/OS VUE, 64-bit virtual addressing support will require increased real storage for a workload compared to DB2 for z/OS and OS/390®, V7. The requirement for 64-bit addressing means that z/OS Bimodal Migration Accommodation software cannot be used with DB2 8 for z/OS VUE.

DB2 9 for z/OS may run on other compatible hardware that supports the Long Displacement Facility of the z/Architecture.

Sufficient disk storage must be available to satisfy the user's information storage requirements

and can consist of any direct-access facility that is supported by the system configuration and the programming system.

### **Auxiliary storage**

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DB2 for z/OS VUE is independent of both disk and tape device type. You can use any magnetic, optical, or tape device that is supported by the data facilities component of z/OS for the DB2 data sets.

The following DB2 for z/OS VUE data sets are supported by the following device types:

- Active recovery log data sets: disk
- Archive recovery log data sets: disk or tape
- Image copy data sets: disk or tape
- Bootstrap data sets: disk
- User data sets: disk or tape (if migrated by DFSMSHsm™)
- DB2 for z/OS VUE catalog data sets: disk
- Work data sets (for utilities): disk or tape

If these data sets are on a disk that is shared with other z/OS systems, you should use global resource serialization to prevent concurrent access by more than one z/OS system. The minimum disk space requirement, based on installing DB2 for z/OS VUE using the panel default values, is approximately 1 GB. Users need additional disk space for their data. If you use dual logging and tape for the log archiving device, you need at least two tape drives.

### **Data communications devices**

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DB2 9 for z/OS VUE and DB2 9 for z/OS VUE operations can be controlled from the following devices supported by IMS™ Transaction Manager, CICS®, and z/OS. Refer to the documentation for these products:

- The system console
- Authorized IMS Transaction Manager terminals
- Authorized CICS terminals
- TSO terminals (by authorized users)

For information about the data communication devices that are supported by IMS Transaction Manager, CICS, and z/OS, refer to the documentation for these products.

### **Function-dependent hardware requirements**

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Certain functions of DB2 for z/OS VUE have associated hardware requirements. If you do not use these DB2 for z/OS VUE functions, the hardware requirements do not apply.

- **DRDA Data Stream Encryption:** DRDA Data Stream Encryption can use cryptographic hardware in a Cryptographic Coprocessor, Cryptographic Accelerator, or Cryptographic instructions.
- **Encryption and decryption functions:** Built-in functions for encryption and decryption require cryptographic hardware in Cryptographic Coprocessor, Cryptographic Accelerator, or Cryptographic instructions.

**Software requirements:** This section lists licensed programs, or specific elements and features of licensed programs, that are required in the DB2 for z/OS VUE environment at the time of announcement. You can use subsequent versions or releases of the programs, unless stated otherwise. This section also identifies the requirements that are associated with specific DB2 for z/OS VUE capabilities, as well as optional programs that you can use with DB2 for z/OS VUE. Refer to the following Web sites for the most current information, including support for subsequent versions or versions of products listed here:

- For information about the product life cycle dates for DB2 for z/OS VUE and related products, visit

<http://www.ibm.com/software/db2zos/support/plc/index.html>



- For information about the operating system availability and withdrawal-of-service dates, visit [http://www.ibm.com/servers/eserver/zseries/zos/support/zos\\_eos\\_dates.html](http://www.ibm.com/servers/eserver/zseries/zos/support/zos_eos_dates.html)
- For a variety of support-related information about DB2 for z/OS VUE, visit <http://www.ibm.com/software/db2zos/support.html>

### Operating system and support programs

DB2 9 for z/OS VUE requires the function that is provided by the following licensed programs or their equivalents, including subsequent versions or releases:

- APAR number PK58953
- z/OS V1.7 Base Services (5694-A01) and APAR OA16303, with the following base and optional elements:
  - DFSMS V1.7.
  - Language Environment® Base Services.
  - z/OS V1.7 Security Server (RACF).
  - IRLM V2.2 (delivered with DB2 9 for z/OS VUE).

Selected functions of DB2 9 for z/OS VUE require z/OS or its components at the V1.8 level. Details are provided in the "Requirements for dependent functions of DB2 9 for z/OS VUE" section of this document.
- z/OS Unicode Services, including APAR OA14231 and APAR OA19072, and appropriate conversion definitions.
- Either version 9.1 of the DB2 Utilities Suite for z/OS (5655-N97) or an equivalent alternative function that provides some of the basic operation of a DBMS (including backup, recovery, reorganization, loading, and unloading of data, gathering of statistics, and checking of data, indexes, and large objects).

DB2 8 for z/OS VUE requires the function that is provided by the following licensed programs or their equivalents, including subsequent versions or releases:

- DB2 8 for z/OS VUE APAR PK59924
- z/OS V1.3 Base Services (5694-A01) plus APARs OW56073, OW56074, OA03519, and OA03095, with the following base and optional elements:
  - DFSMS V1.3
  - Language Environment
  - z/OS V1.7 Security Server (RACF)
  - IRLM V2.2
- z/OS Unicode Services and appropriate conversion definitions are required.
- Either version 8 of the DB2 Utilities Suite for z/OS (5655-K61) or an equivalent alternative function that provides some of the basic operation of a DBMS (including backup, recovery, reorganization, loading, and unloading of data, gathering of statistics, and checking of data, indexes, and large objects).

### Virtual storage requirements

The amount of space that is needed in DB2 for z/OS VUE for the common service area (CSA) below the 16 MB line is less than 40 KB for each DB2 subsystem and less than 24 KB for each IRLM subsystem. High concurrent activity, parallelism, or high contention can require more CSA.

Most of the DB2 for z/OS VUE common data resides in the extended common service area (ECSA). Most modules, control blocks, and buffers reside in the extended private area above the 16 MB line or above the 2 GB bar.

DB2 9 for z/OS VUE requires 128 GB of 64-bit shared storage for each DB2 subsystem.

## Function-dependent program requirements

The following functions of DB2 for z/OS VUE require specific licensed programs, or features of licensed programs, before they can be used in the context of application execution:

- Applications that are written in high-level programming languages, such as applications or stored procedures that are written in the C language and that use the ODBC or CLI interfaces to DB2, require Language Environment at runtime.
- Applications or stored procedures that are written in Java, such as those that use the JDBC or SQLJ interfaces to DB2, require:
  - For DB2 9 for z/OS VUE
    - IBM SDK for z/OS, Java 2 Technology Edition, V1.4 (5655-I56) (SDK1.4.2) at runtime
  - For DB2 8 for z/OS VUE
    - IBM Developer Kit for OS/390, Java 2 Technology Edition (5655-D35) at runtime
- Extenders, shipped in DB2 8 for z/OS VUE require:
  - **Audio, Image, and Video Extenders:** Use of these extenders requires Language Environment. Audio, Image, and Video Extenders have been stabilized at the V7 level and are provided in DB2 8 for z/OS VUE to ensure continuity for current customers. Audio, Image, and Video Extenders do not support the DB2 8 for z/OS VUE data sharing function in a Parallel Sysplex® environment. For the most current information, visit <http://www.ibm.com/software/data/db2/extenders/aiv/aiv390>
  - **XML Extender:** Use of the XML Extender requires Language Environment and the IBM XML Parser for z/OS, C++ Edition, to be available at run time. The required parser is provided with the XML Toolkit for z/OS and OS/390 (5655-D44). Use of either the XML File type or the "Getting Started" material requires the z/OS UNIX® System Services element of z/OS.
  - **DB2 Text Extender:** DB2 Text Extender has been stabilized at the V7 level and is provided in DB2 8 for z/OS VUE, to ensure continuity for current customers. DB2 Text Extender does not support the DB2 8 for z/OS VUE data sharing function in a Parallel Sysplex environment. For the most current information, visit <http://www.ibm.com/software/data/db2/extenders/text/te390>

## Optional program requirements

The following functions are enabled in conjunction with the specified optional licensed programs, when used together with DB2 for z/OS VUE.

### DRDA connectivity

DB2 9 for z/OS VUE supports any of the following IBM relational database products:

- In the Linux™, UNIX, and Microsoft® Windows® environment, either version 9.1 of DB2 for Linux, UNIX, and Windows (with fixpack 1, or later), or version 8.1 of DB2 Universal Database® for Linux, UNIX, and Windows (with fixpack 13, or later). (Version 8.1 with fixpack 13 is equivalent to version 8.2 with fixpack 6.)

Any of the following editions are supported:

  - DB2 Enterprise Server Edition (ESE) (5765-F41)
  - DB2 Workgroup Server Edition (5765-F35)
  - DB2 Workgroup Server Unlimited Edition (5765-F43)
  - DB2 Universal Database Universal Developer Edition (5765-F34)
- DB2 Universal Database for iSeries™ OS/400® V5.3 (5722-SS1) (Info APAR II13348), including the following options:
  - DB2 DataPropagator™ for iSeries V8.1 (5722-DP4)
  - DB2 Query Manager and SQL Development Kit for iSeries (5722-ST1)
- DB2 Server for VSE and VM V7.4 (5697-F42)
- Any other DRDA-compliant client or relational DBMS server

DB2 8 for z/OS VUE supports any of the following IBM relational database products:

- DB2 for Linux, UNIX, Windows, V8
  - DB2 Enterprise Server Edition (ESE) (5765-F41)
  - DB2 Workgroup Server Edition (5765-F35)
  - DB2 Workgroup Server Unlimited Edition (5765-F43)
  - DB2 Universal Database Universal Developer Edition (5765-F34)
- DB2 for Linux, UNIX, Windows, V7
  - DB2 Universal Developer Edition (5648-D37)
  - DB2 Enterprise Edition (5648-D48)
  - DB2 Enterprise Extended Edition (5648-D50)
  - DB2 Workgroup Edition (5648-D46)
  - DB2 Workgroup Unlimited Edition (5648-D46)
- DB2 Universal Database for iSeries OS/400 V5.3 (5722-SS1) (Info APAR II13348), including the following options:
  - DB2 DataPropagator for iSeries V8.1 (5722-DP4)
  - DB2 Query Manager and SQL Development Kit for iSeries (5722-ST1)
- DB2 Server for VSE and VM V7.4 (5697-F42)
- Any other DRDA-compliant client or relational DBMS server

#### **Web connectivity**

The following products provide connectivity to DB2 9 for z/OS VUE from the Web:

- Any of the following editions of WebSphere® Application Server:
  - WebSphere Application Server for z/OS, V6.1 (5655-N01)
  - WebSphere Application Server for z/OS, V5.1 (5724-J08)
  - WebSphere Application Server (5724-J08)
  - WebSphere Application Server for Developers (5724-H89)
  - WebSphere Application Server Network Deployment (5724-H88)
  - WebSphere Application Server — Express (5724-I63)
- DB2 Connect at one of the following levels: V9.1 (with fixpack 1, or later), or V8.1 (with fixpack 13, or later). (V8.1 with fixpack 13 is equivalent to V8.2 with fixpack 6.) Any of the following editions are supported:
  - DB2 Connect Personal Edition (CPE) (5724-B56)
  - DB2 Connect Enterprise Edition (CEE) (5765-F30)
  - DB2 Connect Unlimited Edition for zSeries (CUE) (5724-B62)
  - DB2 Connect Application Server Edition (CASE) (5724-D54)
  - DB2 Connect Unlimited Edition for iSeries (5724-M15)

The following products provide connectivity to DB2 8 for z/OS VUE from the Web:

- WebSphere Application Server V5 (5655-I35)
- WebSphere Application Server V4 (5655-F31)
- DB2 Connect V8 or V7.2
  - DB2 Connect Personal Edition (CPE) V8.1 (5724-B56).
  - DB2 Connect Personal Edition (CPE) V8.1.4 (also known as fixpack 4) is the recommended level to use with DB2 for z/OS, V8.

For DB2 Connect support services, visit

<http://www.ibm.com/cgi-bin/db2www/data/db2/udb/winos2unix/support/newsletter.d2w/report>

- DB2 Connect Enterprise Edition (CEE) V8 (5765-F30).
- DB2 Connect Unlimited Edition (CUE) V8 (5724-B62).
- DB2 Connect Application Server Edition (CASE) V8 (5724-D54).
- DB2 Connect Personal Edition V7.2 (5648-D40).
- DB2 Connect Enterprise Edition V7.2 (5648-D42).

### **Transaction management**

The following transaction management products work with DB2 9 for z/OS VUE:

- WebSphere MQ (any of the following versions):
  - WebSphere MQ for z/OS, V6 (5655-L82)
  - WebSphere MQ for z/OS, V5.3.1 (5655-F10)
  - WebSphere MQ Extended Security Edition V6.0 (5724-E84)
  - WebSphere MQ Workflow for z/OS, V3.6 (5655-BPM)
  - WebSphere MQ Workflow for Multiplatforms V3.6 (5697-FM3)
- Application environments that use DB2 Connect to access DB2 9 for z/OS VUE remotely can use any of the following transaction manager products:
  - WebSphere Application Server
  - WebSphere MQ
  - Java applications that support Java Transaction API (JTA) and Java 2 Platform, Enterprise Edition (J2EE)

The following transaction management products work with DB2 8 for z/OS VUE:

- WebSphere MQSeries® for OS/390: WebSphere MQSeries for OS/390 V5.2 (5655-F10)
- Application environments that use DB2 Connect to access DB2 8 for z/OS VUE remotely can use the following transaction manager products:
  - WebSphere Application Server
  - WebSphere MQ
  - Java applications that support JTA and J2EE

### **Query support**

The following query programs work with DB2 9 for z/OS VUE:

- DB2 XML Extenders, which extend the SQL capabilities of native DB2 9 for z/OS VUE

### **Data warehouse support**

The following products provide warehouse management capabilities for DB2 9 for z/OS VUE:

- WebSphere Data Integration Suite, which consists of the following products:
  - WebSphere DataStage® for z/OS
  - WebSphere DataStage MVS™ Edition
  - WebSphere DataStage Service-Oriented Architecture (SOA) Edition
  - WebSphere DataStage TX for z/OS Edition
  - WebSphere QualityStage for z/OS Version
  - WebSphere DataStage Changed Data Capture DB2 z/OS
  - WebSphere DataStage for DB2 Warehouse Manager

- DataQuant for z/OS

The following products provide warehouse management capabilities for DB2 8 for z/OS VUE:

- DB2 Warehouse Manager for z/OS V8 (5655-I61)
- DataQuant for z/OS

### Development tools

The following application development tools can be used to build applications for DB2 for z/OS VUE:

- DB2 Development Center or IBM Developer Workbench, both of which are included in all editions of DB2, DB2 Connect, and DB2 Software Developer Kit (SDK)
- WebSphere Studio Enterprise Developer V5.1.2 (5724-B67), which has the following program requirement of its own: IBM SDK for z/OS, Java 2 Technology Edition, V1.4 (5655-I56) (SDK1.4.2)

For more information about Java 2 for z/OS, including a link to software prerequisites, visit

<http://www.ibm.com/servers/eserver/zseries/software/java/>

- WebSphere Developer for System z™ V7.0 (5724-L44)
- IBM Rational® tools, including those listed here:
  - IBM Rational Application Developer for WebSphere Software V6.0 (5724-J19)
  - IBM Rational Web Developer for WebSphere Software V6.0 (5724-J18)
  - IBM Rational Data Architect V7.0 (5724-L66) or V6.1 (5724-L66)
  - IBM Rational Software Architect V6.0 (5724-I70); visit <http://www.ibm.com/software/rational>
  - DB2 Alphablox for Linux, UNIX, and Windows, V8.4 (5724-L14)

**Programming languages:** The following application development programming languages can be used to build applications for DB2 for z/OS VUE:

- Building applications by using the DB2 for z/OS VUE precompiler:
  - **Assembler:** High Level Assembler, which is part of the System Services element of z/OS. Note that PTF UK14811 is required for DFP support on z/OS V1.7, or later.
  - **C/C++:** C/C++ (with or without Debug Tool), which is an optional feature of z/OS.
  - **COBOL:** Enterprise COBOL for z/OS, V3.4 (5655-G53), V4.1 (5655-S71), or later.
  - **Fortran:** VS Fortran V2.6 (5668-806). Note that data types that are new to DB2 9 for z/OS VUE are not supported.
  - **PL/I:** IBM Enterprise PL/I for z/OS, V3.4 (5655-H31), or later.
- Building applications by using the DB2 for z/OS VUE coprocessor:
  - **C/C++:** C/C++ for z/OS, which are optional features of z/OS V1.8 (APAR PK38679 is required).
  - **COBOL:** Enterprise COBOL for z/OS, V3.4 (5655-G53), V4.1 (5655-S71), or later.
  - **PL/I:** IBM Enterprise PL/I for z/OS, V3.4 (5655-H31), or later
- Building applications that are supported with processes other than the precompiler or coprocessor:
  - **Java:**
    - Applications or stored procedures that are written in Java, such as those that use the JDBC or SQLJ interfaces to DB2 9 for z/OS VUE, require IBM SDK for z/OS, Java 2 Technology Edition V1.4 (SDK1.4.2). Two editions are available: the 31-bit edition (5655-I56) and the 64-bit edition (5655-M30). However, the 64-bit edition does not

support persistent reusable function.

- Sharing class objects between Java Virtual Machine (JVM) processes that run in the same address space requires IBM SDK for z/OS, Java 2 Technology Edition V1.4 (SDK1.4.2). Two editions are available: the 31-bit edition (5655-I56) and the 64-bit edition (5655-M30). These are independent products that can coexist on the same z/OS system.
- **REXX:** IBM TSO Extensions for MVS REXX, which is part of z/OS.
- **SQL procedural language:**
  - External SQL procedural language: A C language compiler is required on z/OS to develop stored procedures by using the external SQL procedural language. The specific C compiler to use is C/C++ (with or without Debug Tool), which is an optional feature of z/OS.
  - Native SQL procedural language, which does not require a C compiler.
- **APL2®:**
  - Mainframe APL2 V2.2 (5688-228) (full APL2)
  - APL2 Application Environment V2.2 (5688-229)

### Operational support

The following programs can provide operational support for DB2 9 for z/OS VUE:

- DFSMS features, which are part of the Systems Management optional feature of z/OS; specifically:
  - DFSMSHsm for archiving
  - DFSMSdss™ for concurrent copy in utilities
- IBM Softcopy Reader or Library Readers, which are included on the CD-ROMs for BookManager books.
- DB2 Information Integrator Replication for z/OS, V8.2 (5655-L88) can be used in DB2 9 Compatibility Mode. WebSphere Replication Server V9 (5655-R55) and IBM Data Event Publisher V9 work with the following DB2 for z/OS versions:
  - DB2 9 for z/OS
  - DB2 9 for z/OS VUE
  - DB2 8 for z/OS VUE
  - DB2 for z/OS and OS/390, V7

To work with a DB2 9 for z/OS VUE source server in new-function mode, you must install IBM WebSphere Replication Server V9 or IBM Data Event Publisher Version V9, and you must migrate your QCapture control tables because of changes in the DB2 log record format for new-function mode.

- The following IBM tools:
  - DB2 Tools for Database Recovery
  - DB2 Tools for Database Application Management
  - DB2 Tools for Database Administration
  - DB2 Tools for Utilities Management
  - DB2 Tools for Business Analysis
  - WebSphere Information Integration Tools
  - DB2 Tools for Database Performance Management

The minimum levels of two key database performance management tools are IBM Tivoli® OMEGAMON® XE for DB2 Performance Expert on z/OS, V4 (5655-Q07) and IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V4 (5655-Q08). Both of these tools require APAR PK36297 for support of new functions that are available in DB2 9 for z/OS VUE. Details about other performance-management products can be found on the following Web sites.

- For a current list of products, visit the DB2 and IMS Tools Web page at <http://www.ibm.com/software/data/db2imstools>
- For recent news about DB2 Tools compatibility with DB2 for z/OS VUE, visit the DB2 and IMS Tools Support Web page at <http://www.ibm.com/software/data/db2imstools/support.html>
- IBM Tivoli Decision Support for z/OS (5698-A07), V1.7.2 with APAR PK30134, or V1.7.1
- Database administration and systems management support is provided by the DB2 Management Clients Package, an optional feature of DB2 9 for z/OS VUE, which includes:
  - DB2 Administration Server (DAS) (z/OS installable component)
  - z/OS Enablement (z/OS installable component)
  - DB2 Connect Personal Edition Kit (workstation CD), which includes the following tools and a limited-use license for these tools to access DB2 9 for z/OS VUE:
    - Control Center
    - Replication Center
    - Development Center
    - Command Center
    - IBM Developer Workbench

**The following programs can provide operational support for DB2 8 for z/OS VUE:**

- DFSMS features, which are part of the Systems Management optional feature of z/OS; specifically:
  - DFSMSHsm for archiving
  - DFSMSdss for concurrent copy in utilities
- IBM Softcopy Reader or Library Readers, which are included on the CD-ROMs for BookManager books.
- The following IBM tools:
  - DB2 Tools for Database Recovery and Replication Management
  - DB2 Tools for Database Application Management
  - DB2 Tools for Database Administration
  - DB2 Tools for Utilities Management
    - DB2 Tools for Database Performance Management

For a current list of products, visit the DB2 and IMS Tools Web page at <http://www.ibm.com/software/data/db2imstools>
- Database administration and systems management support is provided by the DB2 Management Clients Package, an optional feature of DB2 8 for z/OS VUE, which includes:
  - DB2 Administration Server (DAS) (z/OS installable component).
  - z/OS Enablement (z/OS installable component).
  - DB2 for z/OS Visual Explain (workstation CD or Web download at)
  - A restricted-use copy of DB2 Connect Personal Edition V8.2 (5724-B56) for Windows is provided in the DB2 Management Clients Package feature of DB2 8 for z/OS VUE.
- DB2 Connect Personal Edition Kit (workstation CD), which includes:
  - Control Center
  - Development Center
  - Replication Center
  - Command Center

## Requirements for dependent functions of DB2 for z/OS VUE

DB2 9 for z/OS VUE includes the following functions, some of which have requirements of their own, above and beyond what the base DB2 for z/OS product requires. This section identifies the requirements for using these functions, but does not repeat the requirements for DB2 9 for z/OS VUE.

- The following program requirements apply to the use of new functions and capabilities that are available in DB2 9 for z/OS VUE utilities:
  - For the new system-level backup and recovery capabilities for the DB2 9 for z/OS VUE BACKUP SYSTEM, RESTORE SYSTEM, and RECOVER utilities:
    - z/OS V1.8
    - DFSMSHsm V1.8
    - DFSMSdss V1.8
    - FlashCopy® V2

If you cannot currently satisfy one or more of the preceding program requirements, you can use the version 8 level of DB2 for z/OS VUE functions in the BACKUP SYSTEM and RESTORE SYSTEM utilities if you can satisfy the following program requirements:

- z/OS V1.7
- DFSMSHsm V1.7
- DFSMSdss V1.7
- FlashCopy V2
- Use of new functions that are provided in the DB2 9 for z/OS VUE (CHECK INDEX, CHECK DATA, and CHECK LOB utilities) requires DFSMSdss V1.7.

In addition, FlashCopy V2 is highly recommended (although not technically required) for performance reasons.

- The following uses of encryption and decryption functions require z/OS Cryptographic Services Integrated Cryptographic Service Facility (ICSF), which is a component of z/OS:
  - Built-in encryption and decryption functions
  - All network datastream encryption mechanisms, except when DB2 is the server and is processing a connection using the encrypted USERID and password mechanism to authenticate the user
  - Encryption Facility for z/OS, V1.1 (5655-P97)
- The following program requirements and recommendations apply to the use of group buffer pool (GBP) batching:
  - Coupling Facility (CF) level 12 is required for all GBP batching.
  - CF level 13 is recommended if you want to use the castout enhancement or the lock table cleanup enhancement.
  - CF level 14 is recommended if you use system-managed duplexing for lock or SCA structures.
- Use of MERGE and SELECT from MERGE requires DB2 Connect V9.1. Additional restrictions may apply; refer to product documentation for details.
- Use of the decimal-float conversion capability requires IBM SDK for z/OS, Java 2 Technology Edition, V1.4 (5655-I56) (SDK1.4.2) at runtime.
- Use of XML Extender requires:
  - z/OS V1.7 Language Environment.
  - IBM XML Parser for z/OS, C++ Edition, which is provided with Release 1.9 of XML Toolkit for z/OS (5655-J51). 5655-J51 requires z/OS V1.6, or later.
  - Use of either XML file type or the Getting Started material requires the z/OS UNIX System Services (5694-A01) element of z/OS.
- Use of XML support requires z/OS XML System Services (XML z/OS). z/OS XML requires



either z/OS V1.8 or z/OS V1.7 with APAR OA16303. In addition, use of XML schemas requires IBM 31-bit SDK for z/OS, Java 2 Technology Edition, V5 (5655-N98) (SDK5).

- The following program requirements apply to use of trusted contexts:
  - If you use WebSphere Application Server for z/OS, then version 6.1 (5655-N01) is required.
  - RACF SAF User-mapping plug-in Enterprise Identity Mapping (EIM) requires z/OS V1.8.
  - For full RACF support of roles (not limited to ownership checks for roles only), RACF Access Control Module (DSNXXAC) requires z/OS V1.8.
- msys for Setup DB2 Customization Center is available as a plug-in for IBM Managed System Infrastructure (msys) for Setup. Therefore, msys for Setup DB2 Customization Center requires msys for Setup, which is a base element of z/OS in V1.4, or earlier. If you plan to use msys for Setup DB2 Customization Center on z/OS, V1.5, or later, you must retain and install the msys for Setup components from z/OS V1.4.

For information about installing and using msys for Setup, refer to Managed System Infrastructure for Setup Installation (SC33-7997), which is available for z/OS releases V1.4, or earlier.

DB2 8 for z/OS VUE includes the following functions, some of which have requirements of their own, above and beyond what the base DB2 for z/OS product requires. This section identifies the requirements for using these functions, but does not repeat the requirements for DB2 8 for z/OS VUE.

- System-level point-in-time backup and recovery
  - z/OS V1.6, or later.
  - DFSMSHsm.
  - DFSMSdss.
  - FlashCopy V1 (FlashCopy V2 is recommended).
  - RESTORE SYSTEM LOGONLY option has no dependency on z/OS V1.6.
- Multilevel security with row granularity
  - z/OS V1.6, or later
  - z/OS V1.6 Security Server (RACF)
  - RACF Access Control Module required for multilevel security on objects other than rows
- Encryption and decryption functions
  - Built-in functions for encryption and decryption require z/OS Cryptographic Services Integrated Cryptographic Service Facility (ICSF).
- Group bufferpool (GBP) batching z/OS
  - z/OS V1.6, or later
  - Coupling Facility (CF) level 12
- TCP/IP performance: TCP/IP performance is improved when running on z/OS V1.6.
- DRDA Data Stream Encryption: DRDA Data Stream Encryption can optionally use z/OS Cryptographic Services Integrated Cryptographic Services Facility (ICSF).
- Managed System Infrastructure for Setup DB2 Customization Center is enabled for the IBM Managed System Infrastructure (msys). DB2 Customization Center is available as a plug-in for msys for Setup and, therefore, requires msys for Setup, which is included with z/OS, V1.4. Msys for Setup is a base element of z/OS. The prerequisite for DB2 Customization Center is PTF OA04581. This is not a prerequisite for installing msys. This PTF is required when running the DB2 Customization Center. In addition, msys for Setup has three components:
  - Msys workplace code, which runs on the workstation and provides the user with a Windows Explorer-style GUI to manage z/OS products. The workplace code has to be downloaded from the z/OS host.
  - Msys host program, which runs on a driving system that manages all installation/customization tasks.
  - Msys management directory, which uses an LDAP server to store the configuration data for all msys-enabled products.

- For information about installing and using msys for Setup, refer to Managed System Infrastructure for Setup Installation (SC33-7997).
- Visual Explain is an element of the DB2 Management Clients Package, which is a feature of DB2 8 for z/OS VUE.

### **Limited-use license for z/OS Application Connectivity to DB2 for z/OS VUE**

The program comes with a no-charge z/OS Application Connectivity to DB2 for z/OS VUE feature, a type 4 JDBC driver. This feature is licensed for installation and use solely on z/OS within your authorized zNALC environment. You are authorized to use z/OS Application Connectivity to DB2 for z/OS VUE only to support connectivity of an Eligible Workload running on z/OS within a zNALC machine or LPARs, with such Eligible Workload, in addition to being allowed to connect to DB2 for z/OS VUE, also being authorized to connect to versions of DB2 on z/OS and to version 8.2 or DB2 9 for Linux, UNIX, and Windows. No other connections from or to any other products or databases are permitted. For any other connectivity, you must obtain a separate license from IBM for the edition of DB2 Connect that is appropriate for your environment.

### **Limited-use license for DB2 Connect**

DB2 for z/OS VUE comes with a DB2 Management Clients package feature, which includes a copy of version 9.1 of DB2 Connect Personal Edition. You are authorized to use this copy of DB2 Connect to enable access to DB2 for z/OS VUE data only by the following workstation tools, and no others:

- DB2 Control Center
- DB2 Replication Center
- DB2 Development Center
- DB2 Command Center
- IBM Developer Workbench
- DB2 for z/OS Optimization Service Center, which is part of the IBM Accessories Suite for DB2 for z/OS (5655-R14)

For all other remote connections to DB2 for z/OS that are provided through DB2 Connect, you must obtain a separate license for DB2 Connect from IBM.

### **Softcopy publications**

Except as provided in this section, the terms and conditions of this license apply to the included Diagnosis Guide and Reference and to any copies that are made from it. This licensed publication can be used on all machines designated for the program, and can also be copied and used on other machines in support of authorized use of the program. To support authorized use of the program, printed copies of the displayable material can be made if the copyright notice and any other legend of ownership is reproduced on each copy or partial copy.

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**

- DB2 for z/OS V9 Value Unit Edition,
- DB2 for z/OS V8 Value Unit Edition

### **Planning information**

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**Packaging:** This program 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 shipped in hardcopy with the product.

## Security, auditability, and control

DB2 for z/OS VUE uses the security and auditability features of the host hardware or software. 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/>

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## Ordering information

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### Charge metric

Program name	PID number	Charge metric
DB2 9 for z/OS VUE	5697-P12	Value Unit
DB2 8 for z/OS VUE	5697-N29	Value Unit
DB2 for z/OS VUE S&S	5697-P11	Value Unit

The programs in this announcement all have Value Unit-based pricing.

Program number	Program name	Value Unit exhibit
5697-P12	DB2 9 for z/OS VUE	VUE001
5697-N29	DB2 8 for z/OS VUE	VUE001
5697-P11	DB2 for z/OS VUE S&S	VUE001

For each System z 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 System z 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 VUE001

Level	Minimum	Maximum	Value Units/MSU
Base	1	3	5.25
Tier A	4	45	0.83
Tier B	46	175	0.35
Tier C	176	315	0.26
Tier D	316	+	0.20

Value Units for mainframes without MSU ratings:

Value

Hardware	Units/machine
MP3000 H30	21
MP3000 H50	22
MP3000 H70	26
ESL models	9

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.

DB2 9 for z/OS VUE  
Program PID: 5697-P12

Entitlement identifier	Description	License option/ Pricing metric
S014P4S	DB2 9 for z/OS VUE	Basic OTC, Value Units
S014P4V	DB2 Mgmt Clients Package	Basic OTC, Value Units
S014P4W	z/OS Application Connect	Basic OTC, Value Units

Orderable supply ID	Language	Distribution medium
S014P4Z	English	3480 Uncomp
S014RK7	English	3480 Uncomp
S014RK9	English	3480 Uncomp

DB2 8 for z/OS VUE  
Program PID: 5697-N29

Entitlement identifier	Description	License option/ Pricing metric
S014V9P	DB2 8 for z/OS VUE	Basic OTC, Value Units
S014V9R	DB2 Mgmt Clients Package	Basic OTC, Value Units
S014V9S	z/OS Application Connect	Basic OTC, Value Units

Orderable supply ID	Language	Distribution medium
S014V9H	English	3480 Uncomp
S014V9K	English	3480 Uncomp
S014V9M	English	3480 Uncomp

Subscription and Support  
Program PID: 5697-P11

Entitlement identifier	Description	License option/ Pricing metric
S014P4N	DB2 for z/OS VUE S&S	SW Subscription and Support AS Decline SW S&S No Charge
S014P4P	DB2 Mgmt Clients S&S	SW S&S Registration No Charge SW Subscription and Support AS Decline SW S&S No Charge
S014P4R	z/OS Application Connect S&S	SW S&S Registration No Charge SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

Orderable supply ID	Language	Distribution medium
S014ZVF	English	Hardcopy publication
S014ZVM	English	Hardcopy publication
S014ZVP	English	Hardcopy publication

Translation from MSUs to Value Units example using VUE001

	MSUs	Value Units/MSU
Base	1-3	5.25

Tier A	4-45	.83
Tier B	46-175	.35
Tier C	176-315	.26
Tier D	316+	.20

**Note:** For the actual translation from MSUs to Value Units for this product, refer to the table that follows.

Ordering example: The total number of Value Units is calculated according to the following example.

If the customer has installed 1,000 MSUs, the applicable Value Units would be:

Translation from MSUs to Value Units (VUE001)

	MSUs	*	Value Units/MSU	=	Value Units
Base	3	*	5.25	=	15.75
Tier A	42	*	.83	=	34.86
Tier B	130	*	.35	=	45.50
Tier C	140	*	.26	=	36.40
Tier D	685	*	.20	=	137.00
Total	1,000				270

When calculating the total number of Value Units, the sum is to be rounded up to the next integer.

Value Units for non-MSU-based S/390® processors using VUE001:

MP3000 models

H30	=	21.00 Value Units per machine
H50	=	22.00 Value Units per machine
H70	=	26.00 Value Units per machine
ESL models	=	9.00 Value Units per machine

**Basic license: On/Off Capacity on Demand (CoD):** DB2 9 for z/OS VUE and DB2 8 for z/OS VUE are eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage. To be eligible for On/Off Capacity on Demand pricing, customers must be enabled for temporary capacity on the corresponding hardware, and the required contract Attachment for Customer Initiated Upgrade (refer to Z125-6611), and IBM eServer On/Off Capacity on Demand must be signed prior to use.

DB2 9 for z/OS VUE  
Program PID: 5697-P12

Entitlement identifier	Description	License option/ Pricing metric
S014P4S	DB2 9 for z/OS VUE	Basic OTC, Per MSU-day TUC
S014P4V	DB2 Mgmt Clients Package	Basic OTC, Per MSU-day TUC
S014P4W	z/OS Application Connect	Basic OTC, Per MSU-day TUC

DB2 8 for z/OS VUE  
Program PID: 5697-N29

Entitlement identifier	Description	License option/ Pricing metric
S014V9P	DB2 8 for z/OS VUE	Basic OTC, Per MSU-day TUC
S014V9R	DB2 Mgmt Clients Package	Basic OTC, Per MSU-day TUC
S014V9S	z/OS Application Connect	Basic OTC, Per MSU-day TUC

**Subscription and Support**

Program PID: 5697-P11

Entitlement identifier	Description	License option/ Pricing metric
S014P4N	DB2 for z/OS VUE S&S	SW Subscription and Support MS Decline SW S&S No Charge

SW S&S Reseller One Year OTC  
SW S&S Registration No Charge

S014P4P DB2 Mgmt Clients S&S SW Subscription and Support MS  
Decline SW S&S No Charge  
SW S&S Reseller One Year OTC  
SW S&S Registration No Charge

S014P4R z/OS Application  
Connect SW Subscription and Support MS  
Decline SW S&S No Charge  
SW S&S Reseller One Year OTC  
SW S&S Registration No Charge

### Subscription and Support

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (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.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance (IAASM). 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 the customer.

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 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.

### Ordering z/OS through the Internet

ShopzSeries 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). ShopzSeries is available in the U.S. and several countries in Europe. In countries where ShopzSeries 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 ShopzSeries Web site at

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

### Customized Offerings

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Product deliverables are shipped only via Customized Offerings (for example, CBPDO, ServerPac, SystemPac).

CBPDO and ServerPac are offered for Internet delivery, where ShopzSeries product ordering is available. Internet delivery of ServerPac may help improve automation and software delivery time. For more details on Internet delivery, refer to the ShopzSeries help information at

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

Media type for this software product is chosen during the Customized Offerings ordering process. Based on your customer environment, it is recommended that the highest possible density tape media is selected. Currently offered media types are:

- CBPDOs — 3480, 3480 Compressed, 3490E, 3590, 3592<sup>2</sup>
- ServerPacs — 3480, 3480 Compressed, 3490E, 3590, 3592<sup>2</sup>

- SystemPacs — 3480, 3480 Compressed, 3490E, 3590, 3592<sup>2</sup>

<sup>2</sup>

3592 is highest density media. Selecting 3592 will ship the fewest number of media.

Once a product becomes generally available, it will be included in the next ServerPac and SystemPac monthly update.

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

- CBPDO shipments will begin one week after planned availability.
- ServerPac shipments will begin two weeks after inclusion in ServerPac.
- SystemPac shipments will begin four weeks after inclusion in SystemPac 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 (IPLA), IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

**Licensing:** IPLA including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

### Qualified Sysplex

A Qualified Sysplex means a Parallel Sysplex in which z/OS is eligible for aggregated zNALC charges as described in the Charges section of the Attachment for zNALC License Charges on System z.

Your license authorizes use of the DB2 for z/OS VUE only in validly licensed System z New Application License Charge (zNALC) LPARs for Eligible Workloads, which are defined as workloads that meet the following criteria:

- A workload (excluding applications running under Lotus® Domino®) that includes DB2 for z/OS VUE, where the DB2 for z/OS VUE has been qualified and approved through the zNALC qualification process as eligible to run in a zNALC LPAR, and
- The workload must be a net new z/OS workload deployed in a zNALC LPAR at the time of licensing DB2 for z/OS VUE, and not an existing z/OS workload that:
  - Is transferred or migrated to the zNALC LPARs from z/OS elsewhere in the enterprise, or,
  - Is already deployed in a zNALC LPAR within the enterprise

For example, an existing z/OS workload that would be or has been shifted across a border from one country to another, or from one data center to another, or that has been renamed or rewritten does not qualify as an Eligible Workload. Workloads that are migrated from non-z/OS sources, such as Linux, UNIX, or Windows, may qualify as Eligible Workloads.

- In the case of an outsourcing company that may take up the operation of DB2 for z/OS VUE for its customers and become the licensee of DB2 for z/OS VUE, the term enterprise refers in all cases to the enterprise of the outsourcing company's customers and not to the outsourcing company itself.

Notwithstanding anything else in the IPLA, you are authorized to have copies of DB2 for z/OS VUE in support of your authorized use only

A) If qualified to be deployed on a single machine, in any zNALC LPARs in which the Eligible Workload is deployed for use, or

B) If qualified to be deployed within a Qualified Sysplex, in any zNALC LPARs in which the Eligible Workload is deployed for use

In addition, you may make a backup copy. If you wish to deploy a copy of DB2 for z/OS VUE in any other separate zNALC environment, You must acquire another license to DB2 for z/OS VUE with its own separate entitlements.

Charges for this program are based on Value Unit entitlements.

Calculation of Value Unit entitlements for this program:

For programs that will be deployed for use on a single machine not part of a Qualified Sysplex, the Value Unit entitlement will be determined as follows:

1. There will be a calculation of the number of Value Units that would equate to the total sum of the MSUs for any copies of DB2 for z/OS VUE on the machine, and the MSUs for all instances of the version of DB2 for z/OS that matches the version of DB2 for z/OS VUE (that is, only where the version of DB2 for z/OS of such instances is the same as the version of DB2 for z/OS VUE on that machine).
2. There will be a calculation of the number of Value Units that would equate to the MSUs for all instances of the version of DB2 for z/OS which matches the version of DB2 for z/OS VUE (only where the version of DB2 for z/OS of such instances is the same as the version of DB2 for z/OS VUE) on the machine.
3. The number of required program Value Unit entitlements will be the Value Units calculated in 1 minus the Value Units calculated in 2.

For programs that will be deployed for use in a Qualified Sysplex, the Value Unit entitlement will be determined as follows:

1. There will be a calculation of the number of Value Units that would equate to the total sum of the MSUs for any copies of DB2 for z/OS VUE in the Qualified Sysplex, and the MSUs for all instances of the version of DB2 for z/OS that matches the version of DB2 for z/OS VUE (that is, only where the version of DB2 for z/OS of such instances is the same as the version of the program) in the Qualified Sysplex.
2. There will be a calculation of the number of Value Units that would equate to the MSUs for all instances of the version of DB2 for z/OS which matches the version of DB2 for z/OS VUE (that is, only where the version of DB2 for z/OS of such instances is the same as the version of the program) in the Qualified Sysplex.
3. The number of program Value Unit entitlements will be the Value Units calculated in 1 minus the Value Units calculated in 2.

No MSUs associated with any other instances of DB2 for z/OS shall be included with the program MSUs in the calculation to determine required Value Unit entitlements.

Example: Simply by way of example (hypothetically for the purpose of illustration only), assuming that the MSUs for the existing version of DB2 for z/OS that matches the version of DB2 for z/OS VUE which would be included in the calculations = 100, and the MSUs for the program itself = 30 (where the calculated Value Units for the copies of the program based on program MSUs alone would = 39):

- a. Assume that the calculated Value Units for the combined MSUs of the DB2 for z/OS and the program (that is,  $100 + 30 = 130$  MSUs) would = 81 (Step 1 above)
- b. Assume that the calculated Value Units for the applicable DB2 for z/OS (100 MSUs) would = 70 (Step 2 above)
- c. Then the number of Value Unit entitlements required for DB2 for z/OS VUE would be the difference between the Value Units in a and b = 11 (that is,  $81 - 70 = 11$ ).

Recalculation of Value Unit entitlements:

There may be circumstances in which your Value Unit entitlements must be recalculated based upon changes to the environment and configuration, and additional Value Units will need to be purchased if your existing Value Unit entitlement is not sufficient. For example:

- If the utilization (for example, capacity) of your zNALC LPARs in which the Eligible Workload is deployed for use increases
- If the Eligible Workload is moved to another machine, into a Qualified Sysplex, or out of a Qualified Sysplex
- If the Value Unit entitlements you acquired were based on calculations that included MSUs associated with instances of DB2 for z/OS, and the MSUs associated with such instances decline



The DB2 for z/OS VUE program will be treated as a Parent Program for purposes of calculating charges for System z IPLA programs with referenced-based terms, just as if the program were a monthly license charge DB2 program. Additional charges for IBM programs with referenced-based terms licensed by you may apply, just as when adding MSU capacity to other DB2 Parent Programs. DB2 for z/OS VUE is a System z IPLA program with execution-based terms for purposes of Sub-Capacity pricing.

In the event a machine has both zNALC LPARs running DB2 for z/OS VUE and non-zNALC LPARs running DB2 for z/OS (MLC), the MSUs applicable to those DB2 products for the purpose of establishing charges for reference-based System z IPLA programs will be the lesser of

- a) The sum of the DB2 for z/OS (MLC) and DB2 for z/OS VUE MSUs, or
- b) The peak z/OS MSUs as indicated on the SCRT report

Maintenance/support fixes provided for DB2 for z/OS may not be applied to DB2 for z/OS VUE. Separately available Subscription and Support for DB2 for z/OS VUE must be acquired in order to obtain support for DB2 for z/OS VUE.

The DB2 for z/OS VUE program requires you to indicate acceptance of the terms of this license at installation time.

IBM has the right to audit all machines and Qualified Sysplexes on which DB2 for z/OS VUE is installed to ensure compliance with all the terms of this license and the zNALC terms and conditions.

The DB2 for z/OS VUE programs are licensed under the IPLA and the associated Agreement for Acquisition of Software Maintenance, which provide for support with ongoing access to releases and versions of DB2 for z/OS VUE. These programs have a one-time license charge for use of DB2 for z/OS VUE 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 DB2 for z/OS VUE as long as support is in effect.

S/390 and System z IBM Operational Support Services — SoftwareXcel is an option if you desire added services.

#### **License information (LI) form number**

LI=GC19-2414-00 for IBM DB2 9 for z/OS Value Unit Edition

LI=GC19-2413-00 for IBM DB2 8 for z/OS Value Unit Edition

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

<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://techsupport.services.ibm.com/guides/handbook.html>

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

**Program support:** Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

**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.

**Authorization for use on home/portable computer:** You may not copy and use this program on another computer without paying additional license fees.

**Volume orders (IVO):** No

**Passport Advantage applies:** No

**Software Maintenance applies:** No. 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 newly announced 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>

**IBM Operational Support Services — SoftwareXcel:** Yes

**System i™ Software Maintenance applies:** No

**Variable charges apply:** No

**Educational allowance available:** No education allowance institution customers.

#### **Sub-capacity terms and conditions**

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**Sub-capacity charges for DB2 9 for z/OS VUE and DB2 8 for z/OS VUE** (collectively referred to as "DB2 for z/OS VUE")

To be eligible for sub-capacity charges, the machine on which DB2 for z/OS VUE is running must be eligible for zNALC sub-capacity charges terms and conditions. The customer must sign the zNALC Attachment and the IPLA Sub-Capacity Amendment and have implemented Sub-Capacity by submitting a SCRT report.

With sub-capacity charges, the charge is based on the z/OS product-defined capacity. To obtain charges at less than full machine capacity for each machine, the customer should:

- Determine the MSUs needed for the machine on which DB2 for z/OS VUE will run. Use the product-defined capacity (MSUs) for z/OS (as specified on the Sub-Capacity Reports submitted to IBM for sub-capacity zNALC) as the sub-capacity (MSUs).

If the use of sub-capacity pricing terms for DB2 for z/OS VUE results in a reduced requirement for Value Units, thus freeing up entitlements, customers can reserve them for future growth. There will be no refunds for these freed-up Value Units. Subscription and Support volumes and entitlements for existing contracts will continue to be at the same levels as the acquired licenses.

Management of the Value Unit entitlements continues to be a customer responsibility. For example, in addition to the need for Recalculation of Value Unit Entitlements as specified above, if one of the following occurs on a machine to which DB2 for z/OS VUE is licensed for deployment, the customer must determine if additional Value Units and Subscription and Support need to be ordered for those tools to cover the increase:

- The z/OS-defined capacity is increased.
- The requirements for zNALC sub-capacity charges are no longer met.

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

For more information on the Value Unit Exhibit for the System z IPLA program you selected, refer to the Ordering information section.

**Full-capacity mainframes:** In cases where full capacity is applicable, the following terms apply.

Execution based, z/OS based, full machine based: The required capacity of a System z IPLA program with these terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, visit

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

**Sub-capacity mainframes:** The following terms apply for DB2 for z/OS VUE sub capacity:

Execution based: The required capacity of DB2 for z/OS VUE with these terms equals the capacity of the zNALC LPARs where the DB2 for z/OS VUE executes.

For more information on mainframe MSU-rated capacities, refer to The IBM System z Machines Exhibit, Z125-3901, or visit the Mainframes section of the System z Exhibits Web site

<http://ibm.com/zseries/library/swpriceinfo/>

For more information on sub-capacity System z IPLA terms and conditions, refer to Software Announcement [204-184](#), dated August 10, 2004.

For additional information for products with reference-based terms, System z IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the System z IPLA program executes.

An environment is defined as either a single or stand-alone machine or a qualified Parallel Sysplex. You may have one or more different environments across the enterprise. To determine the required license capacity for each System z IPLA program with referenced-based terms, each environment should be assessed separately.

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one:

- That meets the criteria defined in Hardware Announcement [198-001](#), dated January 13, 1998
- Where MLC pricing is aggregated across the sysplex

DB2 for z/OS VUE will be treated as a Parent Program for purposes of calculating charges for System z IPLA programs with referenced-based terms, just as if DB2 for z/OS VUE were a monthly license charge DB2 program. Additional charges for IBM programs with referenced-based terms licensed by you may apply, just as when adding MSU capacity to other DB2 Parent Programs. DB2 for z/OS VUE is a System z IPLA program with execution-based terms for purposes of Sub-Capacity pricing.

In the event a machine has both zNALC LPARs running DB2 for z/OS VUE and non-zNALC LPARs running DB2 for z/OS (MLC), the MSUs applicable to those DB2 products for the purpose of establishing charges for reference-based System z IPLA programs will be the lesser of a) the sum of the DB2 for z/OS (MLC) and DB2 for z/OS VUE MSUs or b) the peak z/OS MSUs as indicated on the SCRT report.

**Sub-capacity eligibility:** To be eligible for sub-capacity charging for DB2 for z/OS VUE, you must first implement and comply with all terms of the zNALC Attachment. To implement sub-capacity, a machine must be System z (or equivalent). On that machine:

- All instances of the OS/390 operating system must be migrated to the z/OS operating systems

- Any licenses for the OS/390 operating system must be discontinued
- All instances of the z/OS operating (or z/OS.e) systems must be running in z/Architecture (64-bit) mode

For that machine, you must create and submit a Sub-Capacity Report to IBM each month. Sub-Capacity Reports must be generated using the Sub-Capacity Reporting Tool (SCRT). For additional information or to obtain a copy of SCRT, visit the System z Software Pricing Web site

<http://ibm.com/zseries/swprice>

You must comply with all of the terms of the zNALC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity zNALC are defined in the IBM Customer Agreement.

### **Sub-capacity utilization determination**

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Sub-capacity utilization is determined based on the utilization of an eligible operating system and machine (for example, z/OS running in z/Architecture (64-bit) mode on a System z (or equivalent) server).

Sub-capacity utilization is determined based on the product's own execution as reported to IBM in accordance with the requirements for reporting sub-capacity utilization for products.

### **On/Off CoD**

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To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for Customer Initiated Upgrade and IBM eServer On/Off Capacity on Demand — Software (Z125-6611) must be signed prior to use.

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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.

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## **Order now**

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

To identify your local IBM representative, call 800-IBM-4YOU (426-4968).

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: LE001

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.

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