

IBM DB2 V9.1 for z/OS: Realize the business value of your information with innovation that matters

Key prerequisites	2
AP distribution	
Description	3
Program number	6
Education support	
Technical information	6
Virtual storage requirements	9
Optional program requirements	9
Ordering information	23
Terms and conditions	
IBM Electronic Services	
Prices	

At a glance

IBM DB2 V9.1 for z/OS (DB2 9) expands the value delivered to your business through innovations in key areas including:

- · pureXML for on demand applications
- · Unparalleled security and resiliency for business critical innovations
- · Improved data warehousing capabilities
- · Enhanced SAP and ERP vendor support
- Improved cost of ownership and reduction in administration requirements

IBM DB2 Query Management Facility (QMF) V9.1, an optional feature of DB2 9, allows full access to data in the enterprise for viewing, analysis, and reporting via a Web browser or workstation client, with an exciting new visual interface.

Overview

IBM DB2® V9.1 for z/OS® (DB2 9) delivers exciting new innovations, in key areas, to help you realize the business value of your company's information.

pureXML for on demand applications

DB2 9, a hybrid data server that integrates pureXML database technology into our industry leading relational data server, provides unprecedented scalability and performance for both relational and XML data. DB2 9 adds many new data types and SQL improvements. These new features allow you to gain great insight into your business data and enable high volume transaction processing for the next wave of Web applications and service oriented architecture (SOA) initiatives. Data Warehousing and OLTP improvements continue to make your System zTM and DB2 for z/OS environment a highly secure, high performance, and highly scalable enterprise data store that companies continue to bet their business on. The complex business applications of today include both transactions and reporting, so performing both well is imperative.

Some key optimization enhancements improve query and reporting performance and ease of use. A new innovation, the Optimization Service Center*, captures meaningful information about your workload and can improve serviceability by showing insightful optimizer information. Enhanced support for key Business Partners allows you to get more from your data in critical business disciplines like ERP. A brand new user interface for IBM DB2 Query Management Facility* (QMFTM) lets you view, analyze, and report on data from either a workstation client or a Web browser.

Unparalleled security and resiliency for business critical information

New technical innovations in operational compliance (both regulatory and internal governance) help teams work more efficiently, within guidelines and with enhanced auditing capabilities. The unique synergy between DB2, System z, and z/OS drives unparalleled improvements and new capabilities. DB2 benefits from large real memory support, faster processors, specialty engines, and better hardware compression. New capabilities include:

- Increased support for zIIP specialty engines. DB2 9 adds remote native SQL procedure enablement to zIIP processing
- Added security and encryption via IPv6 and Secure Socket Layer (SSL)
- Improved I/O
- Enhanced Parallel Sysplex®, improved backup and restore support, and new ways of using Workload Manager (WLM)

DB2 9 provides SAP environments with the highest level of availability, stability, and security

DB2 9 offers innovations that keep your business running even when things go wrong or changes need to be made. These capabilities drive new value in business resiliency through scalability functions, fewer planned or unplanned outages, and improvements to enhance performance, usability, and availability in data sharing environments. The IBM Optimization Service Center can improve your performance by helping tune SQL statements and databases. DB2 9 performance improvements are in areas that include CPU reductions for index processing in load, reorg, runstats, recover, rebuild and check index, better scalability for inserts, updates and delete, improved line of business (LOB) scalability and performance, reduced CPU time for data with varying length and faster sequential access.

For more information about the new Optimization Service Center, refer to Software Announcement AP07-0040, dated March 6, 2007.

Optimization Service Center and QMF for Workstation are built on Eclipse, an open source community committed to implementation of a universal development platform.

Key prerequisites

- 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. Refer to the Technical information section for details.

Program Number

For details, refer to the Program number section in this announcement.

Planned availability date

March 16, 2007

AP distribution

Country/Region	Announced
ASEAN*	Yes
India/South Asia**	Ye s
Australia	Ye s
People's Republic of China	Ye s
Hong Kong S. A. R. of the PRC	Ye s
Macao S. A. R. of the PRC	Ye s
Tai wan	Ye s
Korea	Ye s
Japan	Ye s
New Zeal and	Yes
*Brunei Darussalam, Indones	ia, Cambodia, Lao People's Democrat
Republic, Malaysia, Philippir	nes, Singapore, Thailand, Vietnam

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Description

DB2 9 delivers key enhancements that improve the ability of DB2 to handle today's new, and enterprise on demand applications. Key enhancements delivered in DB2 9 include:

- pureXML for on demand applications
- Unparalleled security, and resiliency for business critical information
- · Reduced cost of ownership and administration requirements

DB2 9 builds upon, and extends DB2 traditional strengths in many areas including online schema evolution, Unicode, XML, DB2 Family SQL, utilities, security and compliance, and 64-bit virtual storage. Optimization improvements include performance-boosting innovations, synergy with IBM System z, and query management enhancements driving increased cost savings.

pureXML for on demand applications

- Rich new hybrid data server support for both relational and pure XML storage, with the necessary services to support both data structures.
- Leading-edge standards-based capabilities to enable service oriented architecture (SOA) requirements.
- Database on demand capabilities to ensure that your information design can be changed dynamically, often without database outages.
- Rich new SQL capabilities, including additional data types and built-in functions, expanded SQL commonality with DB2 family, and enriched text handling with functions like caseless comparisons, cultural sort, and index on expression.
- Enhanced support to allow key Business Partners, especially with ERP offerings such as SAP, to continue to push the envelope with capabilities that drive business value to their customers. Specific items include new autonomic features, optimization and availability enhancements, and support for new data types.
- Completely redesigned, cross-platform workstation and Web-based QMF query solution, providing high performance, on demand access to data, reports, and interactive data analysis using a rich desktop application or ordinary Web browser.

Unparalleled security and resiliency for business critical information

- Increased security and regulatory compliance through implementation of roles, network-trusted contexts, and enhanced auditing
- Synergy with IBM System z and z/OS in areas that include XML parsing, zIIP, I/O improvements, encryption, IPV6, and Secure Socket Layer (SSL)
- Query management enhancements to make accessing your data even faster and more
 accurate; indexing improvements that include index on expression, randomization, and larger
 index page sizes; optimization improvements that provide better data for the optimizer,
 improved optimization techniques, and better management with optimization services

Reduced cost of ownership and administration requirements

- Improvements to DB2 enhance performance, usability, and availability in data sharing
 environments, including fast replacement of one table with another, ability to alter table space
 and index logging, and improved ability to rebuild an index online.
- Performance-boosting innovations such as load and reorg utility CPU reductions, improved performance for varying length data, and improved logging and insert performance.
- Scalability innovations like table space partitioning by growth, log latch contention reduction, and ability to create and alter STOGROUP SMS constructs.
- Improvements beyond DB2 V8 to help manage business-critical information, with fewer
 planned or unplanned outages with features like online reorganization with no BUILD2 phase,
 rename column and index, alter index to change page size, and ability to modify early code
 without requiring an IPL.

For a technical presentation on selected features of DB2 V9, or later releases, visit the following Web site and select "What's coming"

http://www.ibm.com/software/data/db2/zos/index.html

DB2 9 consists of the base DB2 product with a set of orderable optional features, some of which are available at no additional charge, and others that are billable.

Orderable chargeable features

DB2 QMF V9

With this release, DB2 QMF is a completely redesigned, cross-platform workstation and Web-based solution, providing high performance on demand access to data, reports, and interactive data analysis, using a rich desktop application or ordinary Web browser. Included in DB2 QMF V9 is:

- · Support for DB2 9, with XML and enhancements to SQL
- Reengineered Eclipse-based desktop application that extends QMF to numerous workstation operating systems, including Windows™, Linux™, Solaris, and HP-UX platforms.
- New OLAP query builder, complete with graphical designer, hierarchical and dimension filtering, informational SQL view, and fully interactive results grid.
- New object repository simplifies the storage, access control, and distribution of QMF objects across the enterprise
 - "Offline" schemas and snapshots allow content authors to view filtered, role-specific database resources, such as tables, views, and procedures without physically accessing the underlying database.
 - Independent user interface "perspectives" for QMF administrators, QMF users and visual report designers.
- Redesigned QMF for WebSphere® companion delivers key workstation functionality, using a pure HTML, browser-based client.
 - Extends key QMF functionality to browser-based users across multiple platforms, including report authoring and drag-drop data analysis.
- Completely re-engineered form designer significantly simplifies the development of QMF forms/reports.
- Ability to develop and export query results and reports in a variety of formats including XML, HTML, and PDF.
- Improved table editor provides a means of directly inserting, deleting, and editing data in all supported database types.
- Newly developed data cache provides a means of caching query result sets with user or group-specific expiration rules.

DB2 QMF Enterprise Edition: DB2 QMF Enterprise Edition provides the entire DB2 QMF family of technologies, enabling enterprise-wide business information across end-user and database platforms. DB2 QMF Enterprise Edition consists of these components:

- DB2 QMF for TSO/CICS®
- DB2 QMF High Performance Option (HPO)
- · DB2 QMF for Workstation
- DB2 QMF for WebSphere

DB2 QMF Classic Edition: DB2 QMF Classic Edition supports end users who function entirely from traditional mainframe terminals and emulators (including IBM Host On Demand) to access DB2 databases. This edition consists of DB2 QMF for TSO/CICS.

Orderable no-charge features

z/OS Application Connectivity to DB2 for z/OS 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 feature includes components to assist in the administration of DB2 for z/OS:

- 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

For a technical presentation on selected features of DB2 9, or later releases, visit the following Web site and select "What's coming"

http://www.ibm.com/software/data/db2/zos/index.html

IBM DB2 Accessories Suite for z/OS (DB2 Accessories Suite), a no-charge offering, is available to provide DB2 for z/OS with expanded capabilities in several areas. Included in the suite are:

- · IBM Optimization Service Center
- IBM Spatial Support for DB2 for z/OS data (Spatial Support)

For more information, refer to Software Announcement AP07-0040, dated March 6, 2007.

IBM Optimization Service Center

The IBM Optimization Service Center represents an innovative set of capabilities that improve the performance of DB2 SQL gueries at both the individual guery and full SQL workload level.

- For individual queries, Optimization Service Center can annotate the query, draw an access plan graph, generate query reports, facilitate generation of optimization hints, and suggest statistics needed by SQL Optimizer.
- At your request, Optimization Service Center can send query-related information back to IBM service.
- For SQL workloads, Optimization Service Center can gather workloads from various kinds of sources such as the dynamic statement cache, the catalog tables, the files and directories, the QMF tables, the profile monitoring, and so on.
- SQL queries can be immediately captured by Optimization Service Center or captured at a scheduled time, on a one-time or periodic basis.
- Optimization Service Center can also suggest important statistics to be collected to improve performance for the entire workload.
- Profile monitoring provides a lightweight exception monitoring mechanism, since only those
 exception statements are pushed out by DB2, and Optimization Service Center fully supports
 the use and management of profile monitoring.

IBM Spatial Support for DB2 for z/OS

Spatial Support contains a set of spatial data types, user-defined functions, and stored procedures for spatial related gueries.

- These spatial queries can be invoked for local and remote clients to answer questions based on geographic relationships.
- Relationships such as contains, crosses, equals, intersects, overlaps, touches, within, distance, and envelope intersect can be used in a WHERE clause of the SELECT statement by using predicate functions.
- Spatial Support provides this capability to create spatial indexes on spatial columns, which can improve query performance when using spatial predicate functions.
- Stored procedure interfaces allow the user to manage geographic coordinate systems, spatial indexes, and spatial column usages.

Spatial Support includes an ODBC program to enable/disable the spatial feature. This
program can invoke each of the stored procedures through a set of command line arguments.

Program number

 $Pr\,og\,r\,a\,m$

number Program name

Hardware and software support services

.SmoothStart™/installation services

SmoothStart Services, an on-site implementation and training startup service, is designed to accelerate your productive use of your IBM solution. The service is provided by IBM Global Services or your IBM Business Partner, at an additional cost. For additional information, refer to Services Announcement AA97-3016, dated March 25, 1997, or contact your IBM representative and ask for SmoothStart Services for DB2 9.

IBM Installation Services are provided for DB2 9 by IBM Global Services or your IBM Business Partner, at an additional cost. For additional information, contact your IBM representative and ask for Installation Services for DB2 9 for z/OS.

Availability of national languages

Description Availability date Language

DB2 V9.1 for z/OS March 16, 2007 All

Trademarks

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

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Windows is a trademark 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.

Education support

IBM Global Services, IT Education Services, provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM IT Education Services Web sites

http://www-3.ibm.com/services/learning/

Refer to the IBM IT Education Services Web site for information on course locations and availability dates.

Contact your IBM representative for course information.

Technical information

Specified operating environment

Hardware requirements: The hardware requirements for DB2® 9 are identified below.

Processors and real storage

DB2 9 operates on any processor that supports z/ArchitectureTM, including zSeries® z800, z890, z990, IBM System z9TM, or a comparable processor. The processor must have enough real storage to satisfy the combined requirements of:

- DB29
- 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 two 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

- DB2 9 for z/OS may run on other compatible hardware that supports the Long Displacement Facility of the z/Architecture.
- Some workloads might require increased real storage when they run on V9.1 of DB2 for z/OS
 as compared to V8 of DB2 for z/OS. 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

DB2 for z/OS is independent of both disk and tape device type. The customer 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 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 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 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

DB2 operations can be controlled from the following devices:

- The system console
- Authorized IMS™ Transaction Manager terminals

- · Authorized CICS® terminals
- TSO terminals (by authorized users)

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

Function-dependent hardware requirements

Certain functions of DB2 9 have associated hardware requirements. If you do not use these DB2 functions, the hardware requirements do not apply.

- DRDA® Data Stream Encryption: DRDA Data Stream Encryption can use cryptographic hardware in 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.
- QMFTM functions: DB2 QMF for TSO/CICS, DB2 QMF High Performance Option (HPO), DB2 QMF for Workstation, and DB2 QMF for WebSphere® are programs in the DB2 QMF family of products and can be obtained through the optional chargeable features of QMF Classic Edition or QMF Enterprise Edition. These programs have hardware requirements as follows:
 - DB2 QMF for TSO/CICS requires a display station that is supported by Graphical Data Display Manager (GDDM®).
 - DB2 QMF High Performance Option (HPO) requires a display station that is supported by ISPF
 - Hardware requirements for the DB2 QMF for WebSphere and DB2 QMF for Workstation programs can be found in the QMF publication Installing and Managing DB2 QMF for Workstation and DB2 QMF for WebSphere (GC18-9691). The information in this publication is also available on the Web in the Information Management Software for z/OS Solutions Information Center at

http://publib.boulder.ibm.com/infocenter/imzic

Software requirements: This section lists licensed programs, or specific elements and features of licensed programs, that are required in the DB2 9 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 capabilities, as well as optional programs that you can use with DB2 9. 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 lifecycle dates for DB2 for z/OS and related products, refer
to

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

For information about the operating system availability and withdrawal-of-service dates, refer
to

http://www.ibm.com/servers/eserver/z series/zos/support/zos_eos_dates.html

For a variety of support-related information about DB2 for z/OS, refer to

http://www.ibm.com/software/db2zos/support.html

At this site, you can click **Technotes**, specify "V9 migration" in the search field, and click **Go**.

Operating system and support programs

DB2 V9.1 for z/OS requires the function that is provided by the following licensed programs or their equivalents, including subsequent versions or releases:

- z/OS V1.7 Base Services (5694-A01) or z/OS.e (5655-G52) 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 V9.1 for z/OS). If DB2 for z/OS is installed with IRLM into the same SMP zone as any version of IMS with IRLM V2.1, IRLM V2.1 is deleted during the SMP/E installation of IRLM V2.2.

Selected functions of DB2 V9.1 for z/OS require z/OS or its components at the V1.8 level. Details are provided in the Requirements for dependent functions of DB2 section of this document.

- z/OS Unicode Services, including APAR OA14231 and APAR OA19072, and appropriate conversion definitions.
- Either V9.1 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).

Virtual storage requirements

The amount of space that is needed for the common service area below the 16-MB line is less than 40 KB for each DB2 for z/OS subsystem and less than 24 KB for each IRLM subsystem. High concurrent activity, parallelism, or high contention can require more Common Service Area (CSA). Most of the DB2 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 V9.1 for z/OS requires 128 GB of 64-bit shared storage for each DB2 subsystem.

Function-dependent program requirements

The following functions of DB2 V9.1 for z/OS 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 run time.
- Applications or stored procedures that are written in Java[™], such as those that use the JDBC or SQLJ interfaces to DB2, require IBM SDK for z/OS, Java 2 Technology Edition, V1.4 (5655-I56) (SDK1.4.2), at run time.

Optional program requirements

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

DRDA connectivity

DB2 V9.1 for z/OS supports any of the following IBM relational database products:

- In the Linux[™], UNIX®, and Windows[™] environment, either V9.1 of IBM DB2 for Linux, UNIX, and Windows (with fixpack 1, or later), or V8.1 of DB2 Universal Database®. (DB2 UDB) for Linux, UNIX, and Windows (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 Enterprise Server Edition (ESE) (5765-F41)
 - DB2 Workgroup Server Edition (5765-F35)
 - DB2 Workgroup Server Unlimited Edition (5765-F43)
 - DB2 Universal Database Universal Developer's Edition (5765-F34)
- IBM 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)
- IBM 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 V9.1 for z/OS 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)

Visit

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

Transaction management

The following transaction management products work with DB2 V9.1 for z/OS:

- Information Management System (IMS) (one of the following versions):
 - IMS V9 (5655-J38)
 - IMS V8 (5655-C56)
- Customer Information Control System (CICS) (either of the following versions):
 - CICS Transaction Server for z/OS V3.1 (5655-M15)
 - CICS Transaction Server for z/OS V2.3 (5697-E93)
- 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 V9.1 for z/OS remotely can
 use any of the following transaction manager products:
 - WebSphere Application Server
 - CICS Transaction Server
 - IBM TXSeries™ (CICS and Encina®)
 - WebSphere MQ

- Microsoft™ Transaction Server (MTS)
- BEA (Tuxedo and WebLogic)
- Java applications that support Java Transaction API (JTA) and Java 2 Platform, Enterprise Edition (J2EE)

Query support

The following query programs work with DB2 V9.1 for z/OS:

- The DB2 Query Management Facility (QMF) family
- DB2 XML Extenders, which extend the SQL capabilities of native DB2 for z/OS

Data warehouse support

The following products provide warehouse management capabilities for DB2 V9.1 for z/OS:

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

Development tools

The following application development tools can be used to build applications for DB2 V9.1 for z/OS:

- DB2 Development Center or IBM Developer Workbench, both of which are included in all editions of DB2, DB2 Connect, and DB2 Software Developer's 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/

- IBM 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

IBM 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 V9.1 for z/OS:

- · Building applications by using the DB2 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 are optional features of z/OS.
- **COBOL:** Enterprise COBOL for z/OS V3.4 (5655-G53), or later.
- Fortran: VS Fortran V2.6 (5668-806). Note that data types that are new to DB2 V9.1 for z/OS are not supported.
- PL/I: IBM Enterprise PL/I for z/OS V3.4 (5655-H31), or later.
- Building applications by using the DB2 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), 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 for z/OS, 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 are optional features 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 V9.1 for z/OS:

- 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.
- Information Integrator Replication for z/OS, V8.2 (5655-L88) can be used in DB2 9 for z/OS
 Compatibility Mode. IBM WebSphere Replication Server V9 (5655-R55) and IBM Data Event
 Publisher V9 work with the following DB2 for z/OS versions:
 - DB2 V9.1 for z/OS
 - DB2 Universal Database for z/OS V8
 - DB2 for z/OS and OS/390® V7

To work with a DB2 V9.1 for z/OS source server in new-function mode, you must install IBM WebSphere Replication Server V9 or IBM Data Event Publisher 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:
 - IBM DB2 Tools for Database Recovery
 - IBM DB2 Tools for Database Application Management
 - IBM DB2 Tools for Database Administration
 - IBM DB2 Tools for Utilities Management
 - IBM DB2 Tools for Business Analysis
 - IBM WebSphere Information Integration Tools
 - IBM 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 V9.1 for z/OS. Details about other performance management products can be found on the Web sites that are listed below.

For a current list of products, visit the IBM DB2 and IMS Tools Web page at

http://www.ibm.com/software/data/db2imstools

For recent news about DB2 Tools compatibility with DB2 V9.1 for z/OS, visit the IBM 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 V9.1 for z/OS, 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 V9.1 for z/OS:
 - -- Control Center
 - -- Replication Center
 - -- Development Center
 - -- Command Center
 - -- IBM Developer Workbench

The DB2 Connect limited-use license is also authorized for use with IBM DB2 for z/OS Optimization Service Center (workstation CD included in 5655-R14, IBM Accessories Suite for DB2 for z/OS).

Requirements for dependent functions of DB2

DB2 V9.1 for z/OS 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 V9.1 for z/OS.

Recommendation: Before using these features, refer to the relevant installation information to ensure that you have all required and recommended products.

- The following program requirements apply to the use of new functions and capabilities that are available in DB2 V9.1 for z/OS utilities:
 - For the new system-level backup and recovery capabilities for the DB2 V9.1 for z/OS 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 V8 level of DB2 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 DB2 V9.1 for z/OS (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 use of group buffer pool (GBP) batching:
 - Coupling Facility (CF) level 12 is required for all group buffer pool batching.
 - Coupling Facility (CF) level 13 is recommended if you want to use the castout enhancement or the lock table cleanup enhancement.
 - Coupling Facility (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 decimal-float conversion capability requires IBM SDK for z/OS, Java 2 Technology Edition, V1.4 (5655-I56) (SDK1.4.2) at run time.
- Use of XML Extender requires:
 - z/OS V1.7 Language Environment.
 - IBM XML Parser for z/OS, C++ Edition, which is provided with V1.9 of XML Toolkit for z/OS (5655-J51). 5655-J51 requires z/OS V1.6 or later.
 - Use of either XMLFile 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, V6.1 (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 (DSNXRXAC) requires z/OS V1.8.
- IBM Managed System Infrastructure (msys) for Setup DB2 Customization Center is available
 as a plug-in for 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 V1.4, or earlier.

 DB2 QMF for TSO/CICS, DB2 QMF High Performance Option (HPO), DB2 QMF for Workstation, and DB2 QMF for WebSphere are programs in the DB2 QMF family of products and can be obtained through the optional chargeable features of QMF Classic Edition or QMF Enterprise Edition. DB2 QMF for TSO/CICS requires DB2 for z/OS V8 or V9.1, or DB2 for z/OS and OS/390 V7. Program requirements for the QMF for Workstation and QMF for WebSphere programs can be found in the QMF publication Installing and Managing DB2 QMF for Workstation and DB2 QMF for WebSphere (GC18-9691). The information in this publication is also available on the Web in the Information Management Software for z/OS Solutions Information Center at

http://publib.boulder.ibm.com/infocenter/imzic

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

The no-charge z/OS Application Connectivity to DB2 feature, a Type 4 JDBC driver, is licensed for installation and use solely on z/OS. You are authorized to use z/OS Application Connectivity to DB2 only to support connectivity of an application running on z/OS (V7, V8, or V9.1), with such application, in addition to being allowed to connect to DB2 for z/OS (V7, V8, or V9.1), also being authorized to connect to V8.2 or V9 of DB2 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. :pLimited-use license for DB2 Connect Personal Edition

A limited-use copy of V9.1 of DB2 Connect Personal Edition is provided in the DB2 Management Clients Package feature of DB2 V9.1 for z/OS. You are authorized to use this copy of DB2 Connect to enable access only to DB2 for z/OS data by the following workstation tools:

- · 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.

QMF Enterprise Edition and accompanying program licenses

A license to QMF Enterprise Edition comes with entitlement to licenses to DB2 QMF for Workstation and DB2 QMF for WebSphere. QMF Enterprise Edition comes with the following programs:

- DB2 QMF for TSO/CICS
- DB2 QMF High Performance Option (HPO)
- · DB2 QMF for Workstation
- DB2 QMF for WebSphere

The QMF TSO/CICS and QMF HPO programs are installed and run on z/OS and are licensed to you under the terms of the IBM Customer Agreement and its Licensed Program Specification. The QMF for Workstation and QMF for WebSphere programs are licensed under the terms of the IBM International Program License Agreement that accompanies the CD-ROM media for these programs and is displayed for acceptance during installation.

Compatibility: DB2 V9.1 for z/OS is upwardly compatible with earlier releases of DB2 for z/OS and OS/390. Upgrade with full fallback protection is available for customers running on DB2 UDB for z/OS, V8. Thus, existing customers should ensure they are successfully running on DB2 UDB for z/OS, V8 before updating to DB2 V9.1 for z/OS.

User requirements: This announcement satisfies or partially satisfies more than 225 requirements that were submitted to IBM from customers, Business Partners or from one or

more of the worldwide user group communities. Groups include Australasian SHARE/GUIDE, COMMON, COMMON Europe, GUIDE International, G.U.I.D.E. Europe, Japan GUIDE/SHARE, Guide Latin American, SHARE EUROPE, and SHARE Incorporated. User requirements satisfied include:

MR1230052054	DSNICOPY CHECK should check the whole objects
	in one run
MR1230025727	DATACLAS
MR1227001811	REORG LOB tablespaces
MR122203381	SAP FR309: Timely Release of LOB Locks
MR1221051257	Report Recovery on DBD01, SYSUTILX, SYSCOPY
MR121802461	On line LOAD replace utility
MR1212011549	DB2 DDL and SMS support
MR1209036855	DB2 Latches held by a delayed task
MR120302549 MR1130044651	CREATE INDEX DEFER YES Spatial Extenders for DB2 for z/OS
MR1125041646	Improve the operationality of Audit Trace function
MR112202257	MODIFY RECOVERY
MR1120046822	Compression Dictionary
MR1120034755	Possibility to terminate a RECOVER utility,
	when it is in log apply phase
MR1120034124	TEMPLATE enhancement
MR1118031821	ONLINE LOAD REPLACE for table and or group of
	t abl es
MR1117054211	Improve DB2 utility statement MODIFY RECOVERY
MR111501521	Speed up the archive processing
MR1113057351	Multi Row Insert for Assembler
MR1113024124	DB2 Package Level Tracing
MR1104034935	No progress indication during Stop or restart of a
1 D1 1 0 2 0 1 2 6 2	DB2 member
MR110204263	SAP FR358: RTS enhancements
MR1101045743	DB2 for z/OS DSNDB07, SORT-WORK availability for SQL QUERY even if occupied by big sort activity of
	one single query.
MR103003715	DB2 Utilities Direct datasets to tape if
MC103003713	exceeding a size threshold
MR1029022123	Need the ability for DBADM authority to perform
	GRANTs on aliases and views created
	for others (as per new ZPARM DBADM = YES).
MR1024024831	Ability to direct DB2 image copy to tape or disk
MR1023052606	Online Schema Evolution: Change column default
MR1023051942	Online Schema Evolution: Rename column
MR1022035431	DBADM privilege to GRANT/DROP views created for
	another user
MR1021056746	Performance Tracing Qualify Traces by Corrid
MD101705167	and Package
MR101705167 MR1015032942	DB2 Visual Explain for Z/OS v8 enhancement #1 Intelligent automatic database recovery
WK1013032942	after GRECP status
MR1010034749	Allow Delete of Aliases Created for another
WK1010054747	Authid when zparm DBACRVW=YES
MR1008031945	DB2 Mssing sorting support for national
	alphabet, wrong sort results for
	Czech/Slovak/Hungarian/Croatian languages
MR0930055441	SAP FR024: DB2 Lock Avoidance for Tablespace Scans
MR0925011158	Online LOAD utility
MR092404603	SAP FR099: Rename index
MR0924044028	SAP FR348: Autonomic buffer pool
MR0923052430	DB2 z/OS 8.1 DSNISDMP doesn't always hit on all
ND00000047005	SQLCODEs received
MR0920047225	Remove the Requirement for a C Compiler When
MD0019024614	Using SQL Language Stored Procedures DBACRVW parameter
MR0918024614 MR0917011951	DB2 temp work space management offers no solution
WK0717011731	to prevent one or two users from monopolizing
	the available space resulting in numerous
	'resource 4k unavailable' abends.
MR0914065211	PKLIST to specify a list of collection IDs
MR0902035851	SPUFI isolation levels
MR090104136	Analysis of broken pages
MR083105644	Visual Explain/OPTHINT
MR0827022116	DB2 SQL support of BIGINTEGER (8 byte) for
	compatibility with Java BIGINT SQL type

MR0816045047	Data Base, DB2, not enough field size
MR0816044012	Data Base, DB2
MR081401572	Add LOB file reference method to DB2 OS/390
MR0812021206	Parameter DBACRVW=YES should get grant
NKU812021200	6 6
	possibilities
MR081105289	If ID has DBA Authority it should be able to
	drop any objects it created for another ID
MR081105289	If ID has DBA Authority it should be able to
	drop any objects it created for another ID
MR0811051344	OPTHINTS warning needed if hint is specified but
	not used.
MR0811035145	DSNU310I message is ambiguous
MR0810053718	Initialising TOTALROWS/TOTALENTRIES on creation
MR0809057255	Thread Display After STO DB2
MR0809024840	DB2 for z/OS Data Set Open Command
MR0728067234	Show Index usage in RTS table
	SYSI BM I NDEXSPACESTATS
MR0726057237	DRDA server time in Universal JDBC Driver trace
MR0722045154	SSI: Full support for CLOBs (CrossLoader,
	utilities)
MR0722044602	SSI: Sort Order Requirements Item 1
MR0722042859	SSI: Allow special procedures indicated by the
	customer to disable logging.
MR0721063459	Declared Temp Tables Monitoring
MR0719055414	Display DDF Detail enhancement
MR0719045643	Provide indexable case-insensitive search
	capability.
MR0719040715	Enable index compression.
MR0718042551	Eliminate virtual memory constraint on DBATs
	•
MR0718041914	Schema Evolution
MR0715035220	Automate GRECP and LPL recovery at DB2 restart
MR0712052936	SAP FR365: Simulating indexes in EXPLAIN
MR0711057033	DBMI memory utilization
MR0706064126	Eliminate REORG BUILD2 phase for unique NPIs
MR0705062635	Removing sequence numbers in DSNHPC
MR0703032033	Managing internal DB2 Tasks
MR0629006250	MODIFY RECOVERY utility cannot delete SYSLGRNX
WK0029000230	entries without SYSCOPY entry, so make that possible
100/0/000/0	1
MR062602362	DB2 for OS/390 REORG Utility Enhancement Request
MR0625036817	Requirement of new function on DB2 locking
	me chani s m
MR062502675	DB2 allow delete of SYSLGRNX entries and DBD
	cleanup when no SYSCOPY entries exist
MR0625013758	BIND ERROR MESSAGES REFER to 'C' code not Stored
	Procedure Builder
MR0625013520	AUTHENTI CATI ON bet ween DB2 for OS/390 and DB2 UDB
	Online check Index space calculation
MR0623062507	
MR0621045047	allow check data utility to use non matching
	foreign key indexes
MR0616042254	Skip locked records
MR0615062835	Options in effect
MR0615056626	Mechanism to start gathering Real Time
	Statistics (RTS) for new tables
MR0615051715	SAP FR249: Functional indexes
MR0615051424	SAP FR282: Reduce data sharing overhead for
WKU013U31424	· · · · · · · · · · · · · · · · · · ·
3 BO 24 TO 1511	global indexes
MR061504502	DB2 RUNSTATS Utility Should Incorporate
	Hi st ogram St at s
MR0614047606	Enhance DSN_STATEMNT_TABLE by total costs
MR0612053753	PDAN0300-259 DB2 BUFFERPOOL adjustment using WLM
	control s
MR0612053340	PWAL1103-630 WLM management of DBMS buffer pools
WK0012033340	for DB2
ND0 (11000000	
MR0611023923	Possibility to implement DASDMAX and TAPEM N in
	the DB2 Utility
MR0609051553	Need the ability for DBADM authority to perform
	GRANTs on aliases and views created for others
	(as per new ZPARM DBADM = YES).
MR060804670	SAP FR109: UPSERT Statement
MR0608022846	Column changes need to be dynamic
	•
MR0607055542	
MR0607023438	Unload from Incremental Copy with Compress Yes
MR060700357	Reduce restriction of X-Lock on DBD by MODIFY

	Thility
MR0603025554	Utility DBACRVW parameter
MR0601044342	DSNWZP output format consistent with DSNTIJUZ
MR0530065821	dynamic alter/rename for column, table owner,
	view owner
MR0530026440	Multiple Unload/Reload Task for Reorg
MR0526052022	Possibility to cancel an STOP DB Command
MR0525054935	DB2 MODI FY
MR0518052410	DB2 Image Copy Datasets with 256KB blocks SAP FR260: 'Small' LOB Performance
MR0518046544 MR0518045946	SAP FR200: Shall LOB Performance SAP FR096: IEEE Floating Point Support
MR0518045413	SAP FR273: Reduce Host Variables Impact on Access
1110310013113	Path Selection
MR051804494	SAP FR279: Skip uncommitted qualifying rows that
	are being inserted or deleted
MR0518044852	SAP FR253: FOR BIT DATA Collating Sequence
MR0518044358	SAP FR245: Other Partitioning Schemes
MR0518043722	SAP FR277: Non-Partitioned Tablespace Limit
MR0518043320	SAP FR335: BI GI NT
MR051804325	SAP FR219: Full Support for Automated Volume
MD0519042020	Backups in DB2 SAP FR334: Implicit objects creation for DDL
MR0518042939 MR0518042632	SAP FR334: Implicit objects creation for DDL SAP FR274: Full 64-bit virtual addressing support
MR0517045338	Skipped Locked Rows
MR0517045139	DB2 LOAD utility-Loading into shadow table
MR0517014857	Shrlevel change for LOAD REPLACE
MR0514046245	Allow EXCLUDE qualification in DSNDWQAL for READS
MR0512041756	Structured SQL output
MR0511045556	Alter Audit Report Change
MR0507041657	Amend DB2 trace to allow greater trace
	granularity and allow exclusion of some
MR0506041729	trace record DBADM can create view/alias for other id but
NK0300041729	has not DROP/Alter privilege
MR0505003240	CHECK DATA utility performance
MR050404675	Possibility to implement DASDMAX and TAPEM N
	in the DB2 Utility
MR0429033022	Parameter DBACRVW=YES should get grant
	possibilities
MR0427061847	DB2 z/OS SQL Stored Procedure and DB2 Catalog Enhancement
MR0425051613	Automatic DB2 START DATABASE Issued for LPL/GRECP
1110 123 03 1013	Objects Found in Startup
MR04250333337	DB2 LOB Tablespace Maintenance
MR0421003838	DB2 Minimize impact of create index defer
MR0414036035	MODIFY utility: new parameter to specify 'minimum
ND0414022650	number of Image copy kept'
MR0414033650 MR0414004535	DB2CRVW±YES should allow delete and grant Enable SQL after deferred index creation
MR0414004333	Loading and unloading DB2 for OS/390 data
MR0414003158	Display DDF in status ''suspend''
MR0413045330	Run Unload, Reload, and Log phases in parallel
	for REORG
MR0413044047	Eliminate BUILD2 phase in Online REORG
MR0411003452	BIGINT support on DB2/ MVS
MR0407045226	SAP FR325: Index compression
MR040502454 MR0405014558	Check IX Modify
MR0405014336	COPY
MR0404052738	Remove Restriction on REORG When Compressed
MR0404016516	Utility support for LOAD and UNLOAD of LOBs
	greater than 32K
MR040105536	Excessive storage requirements for DB2
	DataSharing environment lock structures
MD0220057210	during group restart
MR0330057319	The limit of 100 user indexes on the catalog needs to be readdressed
MR0330015327	Point of Consistency recovery to 'any' point
	in time.
MR0329055316	Possibility to create RI (Referential Integrity)
	between Tables with different CCSIDs
MR0328062238	Remove need for DB2 Image Copy to clean up
1500000000000	SYSLGRNG
MR0326034317	SQL Procedure create/drop security

MR032504342	Support of parallel DDL/DML statements on the
100000000000000000000000000000000000000	same database/tablespace
MR0325042821	Automatic GRECP recovery after DB2 Group Restart
MR0325022845	Request for improvement of DB2 Locking mechanism
MR0324043945	More granularity for the Recovery Postponed on
	DB2 Restart
MR0324041537	JDBC Type 4 driver and password change
MR032305117	Request for Collate by language function in
	DB2 for Z/Os
MR0322054943	Command to display active stored procedures
MR0322024656	File reference variables in SQL for DB2 for z/OS
MR0322021925	REORG LOB to reclaim space
MR0321053331	Output of command - display thread* is limited
MR031605659	DB2 Online Load utility with Replace functionality
MR0315045118	SAP FR295: Ensure optimal performance for all star
	scheme queries with one set of static indexes
MR0315043727	SAP FR317: Reducing log latch contentions
MR0311052534	SYSADM authority needs individual accountability
	and must be able to be revoked without a
	cascading effect
MR0308016524	Permanent Tables that do no logging
MR030603916	STOP command issue-zseries DB2
MR0306036336	Bind SPUFI with ISO (UR)
MR0304052121	Improved performance of DB2 Utilities
MR0304021622	DB2 Utility support for Large Block Interface
	(LBI)
MR0301044612	Utility support for LOAD and UNLOAD of LOBs
	greater than 32K
MR022403199	Utilities Panel does not provide for a LIB
	statement
MR022105438	Improve IBM DB2 Utility CPU consumption.
MR0221037236	RLF
MR0221037230 MR0221033737	Add a function in MODIFY RECOVERY in order to
	allow specification of copies to delete to be
	more granular than DATE and AGE.
MR0218055759	TI MESTAMPADD and TI MESTAMPDI FF functions
MR0218027050	Customer needs to run REORG LOB TABLESPACE
WK0210027030	with LOG NO
MR021705568	DASD dataset allocations for nonpartitioning
WK021703306	index on a table space can be greater than 2GB
	Thuck on a table space can be greater than 200
MR0215066642	(hange the ontimizer to nertorm subquery to ioin
MR0215066642	Change the optimizer to perform subquery to join
	transformation within INSERTs
MR0215066642 MR0215056540	transformation within INSERTs High Availability Load Resume No Replace for
MR0215056540	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS
	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name
MR0215056540 MR0211054036	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name of database objects
MR0215056540 MR0211054036 MR0203052944	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name of database objects DB2 Group Attach Load Balancing
MR0215056540 MR0211054036 MR0203052944 MR0202065916	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name of database objects DB2 Group Attach Load Balancing Change to DB2 IVP jobs
MR0215056540 MR0211054036 MR0203052944 MR0202065916 MR0202064050	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name of database objects DB2 Group Attach Load Balancing Change to DB2 IVP jobs MERGE function
MR0215056540 MR0211054036 MR0203052944 MR0202065916 MR0202064050 MR0201015413	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name of database objects DB2 Group Attach Load Balancing Change to DB2 IVP jobs MERGE function Encrypted passwords with DB2
MR0215056540 MR0211054036 MR0203052944 MR0202065916 MR0202064050	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name of database objects DB2 Group Attach Load Balancing Change to DB2 IVP jobs MERGE function Encrypted passwords with DB2 DBADM cannot grant access to views owner by
MR0215056540 MR0211054036 MR0203052944 MR0202065916 MR0202064050 MR0201015413 MR0127063245	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name of database objects DB2 Group Attach Load Balancing Change to DB2 IVP jobs MERGE function Encrypted passwords with DB2 DBADM cannot grant access to views owner by other ID
MR0215056540 MR0211054036 MR0203052944 MR0202065916 MR0202064050 MR0201015413	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name of database objects DB2 Group Attach Load Balancing Change to DB2 IVP jobs MERGE function Encrypted passwords with DB2 DBADM cannot grant access to views owner by other ID DBADM privilege to GRANT/DROP views created for
MR0215056540 MR0211054036 MR0203052944 MR0202065916 MR0202064050 MR0201015413 MR0127063245 MR0127033159	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name of database objects DB2 Group Attach Load Balancing Change to DB2 IVP jobs MERGE function Encrypted passwords with DB2 DBADM cannot grant access to views owner by other ID DBADM privilege to GRANT/DROP views created for another user
MR0215056540 MR0211054036 MR0203052944 MR0202065916 MR0202064050 MR0201015413 MR0127063245	transformation within INSERTs High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name of database objects DB2 Group Attach Load Balancing Change to DB2 IVP jobs MERGE function Encrypted passwords with DB2 DBADM cannot grant access to views owner by other ID DBADM privilege to GRANT/ DROP views created for another user Show all packages used by a thread instead of
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MR0215056540 MR0211054036 MR0203052944 MR0202065916 MR0202064050 MR0201015413 MR0127063245 MR0127033159 MR012406429 MR0121032140 MR0121032140 MR0120063432 MR0111066819 MR0111066753 MR01110033725 MR0110032143 MR0110032143 MR0107055615 MR0107055952	transformation within INSERTS High Availability Load Resume No Replace for DB2 z/OS SAP FR363: SQL statement to change the schema name of database objects DB2 Group Attach Load Balancing Change to DB2 IVP jobs MERGE function Encrypted passwords with DB2 DBADM cannot grant access to views owner by other ID DBADM privilege to GRANT/DROP views created for another user Show all packages used by a thread instead of just the active package in IFCID 148 via READS Requirement for DataClass and StorageClass definitions DB2 REORG TABLESPACe — unload/reload in parallel The support for the Java type long (or Long) with a DB2 SQL Datatype. Need Ability to Pass SMS Classes on CREATE/ALTER STOGROUP Statement Load Discard Messages Default value on UPDATE DSNL303I 00D31034 DBADM privilege to GRANT/DROP views created for another user Possibility to implement DASDMAX and TAPEM N in the DB2 Utility SAP FR033: Set Operation Declared Temp Tables Monitoring
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MR0102011842	INTERSECT operator
MR00076526	REORG of a LOB TS should explain what is has done
MR00076088	Utility support for LOAD and UNLOAD of LOBs greater
	than 32K
MR00075680	User LIMT to amount of SORTWORK space to be USED
	by applications
MR00075679	Li mi t Sort Work Usage
MR00074535	RETAI N(R) ACCESS OF ORI GI NAL DATA DURI NG LOAD REPLACE:
MR00074416_1	Improvement of DB2 subquery performance
MR00073924	Add CREATE VIEW on user tables) privilege
	t o SYSCTRL
MR00072990	Batchjob without Logging
MR00072945	New MODIFY Parm To Keep a Specific Number of
	Image Copies
MR00072150	A New option for Log Output/Non-Output
	Specification for DB2
MR00072107	Indexable predicates
MR00071858_1	DB2 Spufi Isolation level UR
MR00071858	DB2 Spufi Isolation level UR
MR00068654	CHANGE COLUMN NAMES in DB2 TABLES
MR00068141	DBADM must have all privileges with GRANT
	of view
MR00064613_2	DB2 STOGROUP use of SMS storage classes
MR00064613_1	DB2 STOGROUP use of SMS storage classes
MR00062090	Updating without Logging
MR00052320	Keep SYSLGRNG directory table clean
MR00048892	Implementation of better space structure for
	partitioned TS
MR00042792	NOLOG Option for DB2 Maintenance
MR00042666	Provide a Mechanism to Disable Logging for
	Subsystem Objects
MR00039195	Allow logging to be switched on and off as needed
	on an installation
MR00039156	DB2 Enhance DBADM authority.
MR00025435	Capability to change a column name

Planning information

Customer responsibilities: Review the sections in this announcement that describe the hardware and software dependencies for DB2 V9.1 for z/OS. Note that DB2 9 supports migration only from V8. Customers not yet running V8 should plan to upgrade to DB2 V8 for z/OS as preparation for an upgrade to DB2 9.

Migration considerations

IBM added many data server capabilities in DB2 V9.1 for z/OS and reduced or removed support for some functions. As you prepare to upgrade your subsystems to DB2 9, you should be aware of the following changes:

- · AIV Extender removed.
- Text Extender removed.
- Net Search Extender removed. **Note:** DB2 9 incorporates substantial text function into the base product. Use the new functions and indexing for text applications.
- Net.Data® removed. WebSphere is the strategic IBM solution for delivering DB2 data to Web applications.
- DB2 QMF Visionary Studio program removed from DB2 QMF Enterprise Edition.
- DB2 Estimator, available via Web download for DB2 V8, will not be provided for DB2 V9 for z/OS.
- Visual Explain for DB2 for z/OS, available via Web download for DB2 V8, will not be provided for DB2 9. Instead, IBM Optimization Service Center for DB2 for z/OS, part of the no-charge IBM DB2 Accessories Suite for z/OS (5655-R14), extends Visual Explain's capability and adds more SQL tuning functions.
- DB2-managed stored procedure support removed. Workload Manager (WLM) managed stored procedure address spaces is the strategic solution for stored procedure support, and migration to WLM-managed stored procedure spaces is required for use of stored procedures

in DB2 V9.1 for z/OS.

- Simple table space creation support removed. DB2 V9.1 for z/OS no longer implicitly creates simple table spaces nor allows you to create simple table spaces. However, DB2 V9.1 for z/OS continues to support simple table spaces created in previous versions.
- Online help facility replaced. The previous help support has been replaced by the Information Management Software for z/OS Solutions Information Center (Information Center). The Web-based Information Center is updated periodically during the life of each DB2 version, thus ensuring reader access to the most up-to-date information.
- JDBC/SQLJ Driver for OS/390 and z/OS support removed. All Java application programs, and Java routines that are currently written to work with JDBC/SQLJ Driver for OS/390 and z/OS, need to be modified to work with IBM DB2 Driver for JDBC and SQLJ (formerly known as the DB2 Universal JDBC Driver). The steps for migrating JDBC and SQLJ applications from the legacy JDBC/SQLJ Driver for OS/390 and z/OS to IBM DB2 Driver for JDBC and SQLJ can be found in the Application Programming Guide and Reference for Java. In addition, all WLM-managed stored procedures address spaces that are set up to execute Java routines must be modified to reference IBM DB2 Driver for JDBC and SQLJ.
- DB2 Precompiler Flagger support was removed in DB2 for z/OS V8, and SQLFLAG is no longer a valid precompiler option.
- Plans and packages should be rebound on current releases to benefit from optimizer enhancements and DB2 9 virtual storage constraint improvements on SQL statement storage.
 For DB2 9, plans and packages from DB2 V4, or earlier will be automatically rebound when accessed by DB2 9.
- As noted in the Hardware requirements section, DB2 9 for z/OS requires long displacement support in the hardware. Due to greater use of long displacement instructions by DB2 9 than DB2 V8, column-intensive applications may experience shorter CPU time. However, these applications may take longer on systems that emulate long displacement (for example, z800 or z900). For further information on the long displacement facility, refer to z/Architecture Principles of Operations, SA22-7832-04 available at

http://www.ibm.com/servers/eserver/zs eries/zos/bkserv/r8pdf/zarchpops.html

- To allow you, in a potential future release of DB2, to specify a module name other than DSNHDECP to be used by a DB2 instance, in a manner similar to that used for other DB2 parameters, DB2 9 lays the ground work with these changes:
 - RRS attach provides information on which DB2 subsystems are available on an LPAR and provides the address of the DSNHDECP load module (DSNHDECP is loaded in common storage (ECSA)) being used by a DB2 subsystem.
 - IFCID 160 has been enhanced to provide the fully qualified DSNHDECP load module dataset name used by a DB2 subsystem.
 - The precompiler provides the fully qualified dataset name for the DSNHDECP load module used in a precompilation.
 - GETVARIABLE has been enhanced to provide all of the information that the DECP provides.
 - The fully qualified dataset name for the DB2 subsystem parameter module, DSNHDECP load module, and exits DSN3@ATH, DSN3@SGN, and DSNX@XAC, are displayed as a message on START DB2.

For more detailed information on upgrading to DB2 9, refer to the DB2 V9.1 for z/OS Installation Guide (GC18-9846).

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 following features are deprecated in DB2 9. These functions may be dropped in the future; you should not create any new dependencies that rely on them, and if you have existing dependencies on them, you should develop plans to remove those dependencies.

- · XML Extender.
- DB2 MQ XML user-defined functions and stored procedures.
- msys for Setup DB2 Customization Center.
- DB2 Management Clients feature, which includes DB2 Administration Server, DB2 Control

Center, and DB2 Development Center.

- · DDF Private Protocol.
- BookManager format for DB2 for z/OS publications. Books new to the library with DB2 V9 will
 not be offered in BookManager format, and the BookManager format may be dropped for all
 publications in the future.

Direct customer support:

Eligible customers can obtain installation and usage assistance from the Industry Support Center through a telephone response line.

Packaging: The DB2 UDB for z/OS features are available on 3480 cartridges.

Also included with each base or optional feature is a Program Directory, and under separate cover, one copy of the entitled publications, and other media, such as CD-ROM, as applicable.

DB2 for z/OS

Title	Or der number
DB2 9 for z/OS Program Directory DB2 Installation Guide DB2 Licensed Library CD-ROM DB2 Licensed Programming Specifications	GI 10-8737 GC18-9846 LK3T-7195 GC18-9848
QMF Classic Edition	

Title			

OMF Classic	Edition	Program Directory	GI 10-8740

QMF Enterprise Edition

Ti t l e	Or der number
QMF Enterprise Edition Program Directory	GI 10-8742
QMF for Workstation and WebSphere, V9R1, CD Kit	LK5T-7338

DB2 Management Clients

The workstation client functions of DB2 Management Clients Package are shipped on CD-ROM.

Order number

Ti t l e	Order number
DB2 Management Clients Pkg Program Directory DB2 Connect Personal Edition Pre-packaged Kit	GI 10-8738 LK3T-7139

z/OS Application Connectivity to DB2 for z/OS

Ti t l e	Order number
z/OS Application Connectivity to DB2 for z/OS Program Directory	GI 10-8739

Security, auditability, and control

DB2 9 uses the security and auditability features of the host z/OS systems. It also provides facilities for the protection and control of its resources. These facilities include controls for:

- · System access
- · Data access and control
- · Concurrent access
- · Data recovery

· Accounting and auditing

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

New licensees

Orders for new licenses can be placed now.

Registered customers can access IBMLink™ for ordering information and charges.

Shipment will not occur before the availability date.

Unless a later date is specified, orders entered before the planned availability date will be assigned a schedule date of one week following availability.

Shipment will begin on the planned availability date.

New users of DB2 V9.1 for z/OS should specify: Type: 5635, Model: DB2.

Basic license: To order a basic license, specify the program number and feature number 9001 for asset registration.

Parallel Sysplex® License Charge (PSLC) basic license: To order a basic license, specify the program number and feature 9001 for asset registration. Specify the PSLC Base feature. If applicable, specify the PSLC Level A and PSLC Level B, and PSLC Level C, and PSLC Level D features and quantity.

To order a basic license, specify the program number. Specify the PSLC Base feature. If applicable, specify the PSLC Level A and PSLC Level B, and PSLC Level C, and PSLC Level D features and quantity.

If there is more than one program copy in a Parallel Sysplex, the charge for all copies is associated to one license by specifying the applicable PSLC feature numbers and quantity represented by the sum of the Service Units in Millions (MSUs) in your Parallel Sysplex. For all other program copies, specify the PSLC No-Charge (NC) Identifier feature on the licenses.

Also, specify the feature number of the desired distribution medium.

	PSLC feat ur e number	
DB2 V9.1 for z/OS		
1 2	A0 AA A0 AB	PSLC Base, 1 MSU PSLC Base, 2 MSUs
3	A0 AC	PSLC Base, 3 MSUs
4 45	A0 AD A0 AE	PSLC Level A, 1 MSU PSLC Level A, 42 MSUs
46 175	A0 AF A0 AG A0 AH	PSLC Level B, 1 MSU PSLC Level B, 10 MSUs PSLC Level B, 50 MSUs
176 315	A0 AJ A0 AK A0 AL	PSLC Level C, 1 MSU PSLC Level C, 10 MSUs PSLC Level C, 50 MSUs
316 or more	A0 AM A0 AN	PSLC Level D, 1 MSU PSLC Level D, 50 MSUs
Not applicable	AO AP	PSLC N/C ID
QMF Enterprise Edition	ı	

1	A0 VW	PSLC Base, 1 MSU
2	AO WA	PSLC Base, 2 MSUs
3	AO WB	PSLC Base, 3 MSUs
4 45	A0 WC	PSLC Level A, 1 MSU
	AO WD	PSLC Level A, 42 MSUs
46 175	AO WE	PSLC Level B, 1 MSU
	A0 WF	PSLC Level B, 10 MSUs
	A0 WG	PSLC Level B, 50 MSUs
		·
176 315	A0 WH	PSLC Level C, 1 MSU
	A0 W	PSLC Level C, 10 MSUs
	A0 WK	PSLC Level C, 50 MSUs
316 or more	AO WL	PSLC Level D, 1 MSU
	A0 WM	PSLC Level D, 50 MSUs
Not applicable	AO WN	PSLC N/C ID
QMF Classic Edition		
1	A0 NR	PSLC Base, 1 MSU
2	AONT	PSLC Base, 2 MSUs
2	AUINI	I SEC Base, 2 IVBOS
3	A0 NU	PSLC Base, 3 MSUs
4 45	A0 NV	PSLC Level A, 1 MSU
	A0 NW	PSLC Level A, 42 MSUs
46 175	A0PA	PSLC Level B, 1 MSU
40 173	AOPB	PSLC Level B, 10 MSUs
	AOPC	PSLC Level B, 50 MSUs
	AUTC	TSEC LEVEL B, 30 NBCs
176 315	A0PD	PSLC Level C, 1 MSU
	A0PE	PSLC Level C, 10 MSUs
	AOPF	PSLC Level C, 50 MSUs
316 or more	A0PG	PSLC Level D, 1 MSU
	A0PH	PSLC Level D, 50 MSUs
	1077	
Not applicable	A0 PJ	PSLC N C I D
z/OS Application Connec	ctivity to DB2 f	or z/OS
Not applicable	A1 FD	PSLC N/C ID

CHINA ONLY ------Begin

Parallel Sysplex One-Time Charge (PSOTC) Basic License

Machines MSU capacity	PSOTC feature number	PSLC basic license PSOTC feature description
DB2 V9.1 for z/OS		
1 2	A0 DM A0 DN	PSOTC Base, 1 MSUs PSOTC Base, 2 MSUs
3	A0 DP	PSOTC Base, 3 MSUs
4 45	A0 DQ A0 DR	PSOTC Level A, 1 MSUs PSOTC Level A, 42 MSUs
46 175	A0 DT A0 DU A0 DV	PSOTC Level B, 1 MSUs PSOTC Level B, 10 MSUs PSOTC Level B, 50 MSU
176 315	A0 DW A0 EA A0 EB	PSOTC Level C, 1 MSUs PSOTC Level C, 10 MSUs PSOTC Level C, 50 MSUs

316 or more	A0EC	PSOTC Level D, 1 MSUs
	A0ED	PSOTC Level D, 50 MSUs
Not applicable	A0 EE	PSOTC N/C ID
QMF Enterprise Edition	1	
1	A1 CB	PSOTC Base, 1 MSUs
2	A1 CC	PSOTC Base, 2 MSUs
3	A1 CD	PSOTC Base, 3 MSUs
4 45	A1 CE	PSOTC Level A, 1 MSUs
	A1 CF	PSOTC Level A, 42 MSUs
46 175	A1 CG	PSOTC Level B, 1 MSUs
	A1 CH	PSOTC Level B, 10 MSUs
	A1 CJ	PSOTC Level B, 50 MSU
		-, -, -, -, -,
176 315	A1 CK	PSOTC Level C, 1 MSUs
	A1 CL	PSOTC Level C, 10 MSUs
	A1 CM	PSOTC Level C, 10 MSUs PSOTC Level C, 50 MSUs
316 or more	A1 CN	PSOTC Level D, 1 MSUs
	A1 CP	PSOTC Level D, 50 MSUs
Not applicable	A1 CQ	PSOTC N/C I D
QMF Classic Edition		
1	A0RU	PSOTC Base, 1 MSUs
2	A0 RV	PSOTC Base, 2 MSUs
3	A0RW	PSOTC Base, 3 MSUs
3	2 10 ICW	TBOTC Buse, 5 MBCs
4 45	A0TA	PSOTC Level A, 1 MSUs
	A0TB	PSOTC Level A, 42 MSUs
46 175	A0TC	PSOTC Level B, 1 MSUs
	A0TD	PSOTC Level B, 10 MSUs
	A0TE	PSOTC Level B, 50 MSU
176 315	A0TF	PSOTC Level C, 1 MSUs
170 313	AOTG	PSOTC Level C, 1 MSUs
	AOTH	PSOTC Level C, 10 MSUs
	AUTH	1301c Level C, 30 MBCs
316 or more	A0 TJ	PSOTC Level D, 1 MSUs
	AOTK	PSOTC Level D, 50 MSUs
		•
Not applicable	A0TL	PSOTC N/C ID
CHINA ONLYEnd		
CHINA ONLYBegin		
_	alialia de DDO fo	-/00
z/OS Application Conne	CUVITY TO DB2 TOP 2	4/05

PSOTC PSLC basic license Machines feature PSOTC feature MSU capacity number description

Not applicable A1 FD PSLC N/C ID

CHINA ONLY -----End

For JAPAN only

Entitlement License option/ identifier Description pricing metric

Basic MLC, PSLC below 3 MSU Basic MLC, PSLC AD SYSUSGREG NC, PSLC AD

S011XS0 DB2 for z/OS

S012J7R QMF Classic Edition **WLC basic license:** If there is more than one program copy in a Parallel Sysplex, the charge for all copies is associated to one license by specifying the applicable WLC license options and quantity represented by the sum of the Service Units in Millions (MSUs) in your Parallel Sysplex. For all other program copies, specify the Workload Registration Variable WLC Identifier on the licenses.

Workload License Charge (WLC) Basic License: To order a basic license, specify the program number and the quantity of MSUs.

VWLC Feature description	VWLC Feature number
DB2 V9.1 for z/OS	
Level 0 incl 3 MSU, Workload Per User Base Level 0 Up to 45 MSU, Per Usage Addl Qty Workload Level 1 46-175 MSU, Per Usage Addl Qty Workload Level 2 176-315 MSU, Per Usage Addl Qty Workload Level 3 316-575 MSU, Per Usage Addl Qty Workload Level 3 316-575 MSU, Per Usage Addl Qty Workload Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload Level 5 876-1315 MSU, Per Usage Addl Qty Workload Level 5 876-1315 MSU, Per 50 MSU Addl Qty Workload Level 6 1316-1975 MSU, Per Usage Addl Qty Workload Level 6 1316-1975 MSU, Per Usage Addl Qty Workload Level 7 1976 MSU and up, Per Usage Addl Qty Workload Level 7 1976 MSU and up, Per Usage Addl Qty Workload	A0 BD A0 BE A0 BF A0 BG A0 BH A0 BJ A0 BK A0 BL A0 BM A0 BN A0 BN A0 BN A0 BP A0 BQ A0 BR A0 BT
License option Workload registration no charge	
Level 0 incl 1 MSU, Workload Registration Per User Base Level 0 Up to 45 MSU, Per Usage Addl Qty Workload Regist Level 1 46-175 MSU, Per Usage Addl Qty Workload Regist Level 2 176-315 MSU, Per Usage Addl Qty Workload Regist Level 3 316-575 MSU, Per Usage Addl Qty Workload Regist Level 3 316-575 MSU, Per Usage Addl Qty Workload Regist Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload Regist Level 4 576-875 MSU, Per Usage Addl Qty Workload Regist Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload Regist Level 5 876-1315 MSU, Per 50 MSU Addl Qty Workload Regist Level 5 876-1315 MSU, Per Usage Addl Qty Workload Regist Level 5 876-1315 MSU, Per 50 MSU Addl Qty Workload Regist Level 6 1316-1975 MSU, Per Usage Addl Qty Workload Regis Level 6 1316-1975 MSU, Per Usage Addl Qty Workload Regis Level 7 1976 MSU and up, Per Usage Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Regi St	A0BU A0BV A0CA A0CB A0CC A0CD A0CE A0CF A0CG A0CH A0CJ A0CK A0CL
QMF Enterprise Edition	
Level 0 incl 3 MSU, Workload Per User Base Level 0 Up to 45 MSU, Per Usage Addl Qty Workload Level 1 46-175 MSU, Per Usage Addl Qty Workload Level 2 176-315 MSU, Per Usage Addl Qty Workload Level 3 316-575 MSU, Per Usage Addl Qty Workload Level 3 316-575 MSU, Per Usage Addl Qty Workload Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload Level 4 576-875 MSU, Per Usage Addl Qty Workload Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload Level 5 876-1315 MSU, Per Usage Addl Qty Workload Level 5 876-1315 MSU, Per Usage Addl Qty Workload Level 6 1316-1975 MSU, Per Usage Addl Qty Workload Level 6 1316-1975 MSU, Per Usage Addl Qty Workload Level 7 1976 MSU and up, Per Usage Addl Qty Workload Level 7 1976 MSU and up, Per Usage Addl Qty Workload Level 7 1976 MSU and up, Per Usage Addl Qty Workload	A0 WP A0 WQ A0 WR A0 WT A0 WU A0 WW A1 AA A1 AB A1 AC A1 AC A1 AD A1 AE A1 AF A1 AG
License option Workload registration no charge	
Level 0 incl 1 MSU, Workload Registration Per User Base Level 0 Up to 45 MSU, Per Usage Addl Qty Workload Regist	Al AH Al AJ

Level 1 46-175 MSU, Per Usage Addl Qty Workload Regist	A1 AK
Level 2 176-315 MSU, Per Usage Addl Qty Workload Regist	A1 AL
Level 3 316-575 MSU, Per Usage Addl Qty Workload Regist	A1 AM
Level 3 316-575 MSU, Per 50 MSU Addl Qty Workload Regist Level 4 576-875 MSU, Per Usage Addl Qty Workload Regist	A1 AN A1 AP
Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload Regist	A1 AQ
Level 5 876-1315 MSU, Per Usage Addl Qty Workload Regist	A1 AR
Level 5 876-1315 MSU, Per 50 MSU Addl Qty Workload Regis	A1 AT
Level 6 1316-1975 MSU, Per Usage Addl Qty Workload Regis	A1 AU
Level 6 1316-1975 MSU, Per 50 MSU Addl Qty Workload Regi	A1 AV
Level 7 1976 MSU and up, Per Usage Addl Qty Workload Reg	A1 AW
Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Re	A1 BA
QMF Classic Edition	
Level 0 incl 3 MSU, Workload Per User Base	A0PK
Level 0 Up to 45 MSU, Per Usage Addl Qty Workload	A0PL
Level 1 46-175 MSU, Per Usage Addl Qty Workload	A0PM
Level 2 176-315 MSU, Per Usage Addl Qty Workload Level 3 316-575 MSU, Per Usage Addl Qty Workload	A0PN A0PO
Level 3 316-575 MSU, Per 50 MSU Addl Qty Workload	AOPR
Level 4 576-875 MSU, Per Usage Addl Qty Workload	A0PT
Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload	A0PU
Level 5 876-1315 MSU, Per Usage Addl Qty Workload	A0PV
Level 5 876-1315 MSU, Per 50 MSU Addl Qty Workload	A0PW
Level 6 1316-1975 MSU, Per Usage Addl Qty Workload	A0 QA
Level 6 1316-1975 MSU, Per 50 MSU Addl Qty Workload	A0 QB
Level 7 1976 MSU and up, Per Usage Addl Qty Workload Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload	A0PP A0QC
Level / 1970 MbC and up, Tel 30 MbC Addi Qiy Wikibad	Auge
License option Workload registration no charge	
Level 0 incl 1 MSU, Workload Registration Per User Base	A0 QD
Level 0 Up to 45 MSU, Per Usage Addl Qty Workload Regist	A0 QE
Level 1 46-175 MSU, Per Usage Addl Qty Workload Regist	A0 QF
Level 2 176-315 MSU, Per Usage Addl Qty Workload Regist Level 3 316-575 MSU, Per Usage Addl Qty Workload Regist	A0 QG
Level 3 316-575 MSU, Per 50 MSU Addl Qty Workload Regist	A0 QH A0 QJ
Level 4 576-875 MSU, Per Usage Addl Qty Workload Regist	A0 QK
Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload Regist	A0 QL
Level 5 876-1315 MSU, Per Usage Addl Qty Workload Regist	A0 QM
Level 5 876-1315 MSU, Per 50 MSU Addl Qty Workload Regis	A0 QN
Level 6 1316-1975 MSU, Per Usage Addl Qty Workload Regis	A0 QP
Level 6 1316-1975 MSU, Per 50 MSU Addl Qty Workload Regi Level 7 1976 MSU and up, Per Usage Addl Qty Workload Reg	A0 QQ A0 QR
Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload Re	AO QT
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NAM C	LANE C
VWLC	VWLC
Feature description	Feature number
desert per on	number
DB2 V9.1 for z/OS	
Level 0 incl 3 MSU, Workload Per User Base	A0EF
Level 0 Up to 45 MSU, Per Usage Addl Qty Workload	A0EG
Level 1 46-175 MSU, Per Usage Addl Qty Workload Level 2 176-315 MSU, Per Usage Addl Qty Workload	A0EH A0EJ
Level 3 316-575 MSU, Per Usage Addl Qty Workload	A0EJ A0EK
Level 3 316-575 MSU, Per 50 MSU Addl Qty Workload	A0EL
Level 4 576-875 MSU, Per Usage Addl Qty Workload	A0EM
Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload	A0EN
Level 5 876-1315 MSU, Per Usage Addl Qty Workload	A0EP
Level 5 876-1315 MSU, Per 50 MSU Addl Qty Workload	A0EQ
Level 6 1316-1975 MSU, Per Usage Addl Qty Workload Level 6 1316-1975 MSU, Per 50 MSU Addl Qty Workload	A0ER A0ET
Level 7 1976 MSU and up, Per Usage Addl Qty Workload	AOET AOEU
Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload	A0EV
License option Workload registration no charge	
I 10' 11NII W 11 18 '	AOEM
Level 0 incl 1 MSU, Workload Registration Per User Base Level 0 Up to 45 MSU,Per Usage Addl Qty Workload Regist	A0EW A0FA

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Level 1 46-175 MSU, Per Usage Addl Qty Workload Regist
                                                               A0FB
Level 2 176-315 MSU, Per Usage Addl Qty Workload Regist
                                                               A0FC
Level 3 316-575 MSU, Per Usage Addl Qty Workload Regist
                                                               A0FD
Level 3 316-575 MSU, Per 50 MSU Addl Qty Workload Regis
                                                               A0FE
Level 4 576-875 MSU, Per Usage Addl Qty Workload Regist
                                                               A0FF
Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload Regis
                                                               A0FG
Level 5 876-1315 MSU, Per Usage Addl Qty Workload Regis
                                                               A0FH
Level 5 876-1315 MSU, Per 50 MSU Addl Qty Workload Regi
                                                               A0FI
Level 6 1316-1975 MSU, Per Usage Addl Qty Workload Regi
                                                               A0FK
Level 6 1316-1975 MSU, Per 50 MSU Addl Qty Workload Reg
                                                               A0FL
Level 7 1976 MSU and up, Per Usage Addl Qty Workload Re
                                                               A0FM
Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload R
                                                               A0FN
OMF Enterprise Edition
Level 0 incl 3 MSU, Workload Per User Base
                                                               A1 CR
Level 0 Up to 45 MSU, Per Usage Addl Qty Workload
                                                               A1 CT
Level 1 46-175 MSU, Per Usage Addl Qty Workload
                                                               A1 CU
Level 2 176-315 MSU, Per Usage Addl Qty Workload
                                                               A1 CV
Level 3 316-575 MSU, Per Usage Addl Qty Workload
                                                               A1 CW
Level 3 316-575 MSU, Per 50 MSU Addl Qty Workload
                                                               A1 DA
Level 4 576-875 MSU, Per Usage Addl Qty Workload
                                                               A1 DB
Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload
                                                               A1 DC
Level 5 876-1315 MSU, Per Usage Addl Qty Workload
                                                               A1 DD
Level 5 876-1315 MSU, Per 50 MSU Addl Qty Workload
                                                               A1 DE
Level 6 1316-1975 MSU, Per Usage Addl Qty Workload
                                                               A1 DF
Level 6 1316-1975 MSU, Per 50 MSU Addl Qty Workload
                                                               A1 DG
Level 7 1976 MSU and up, Per Usage Addl Qty Workload
                                                               A1 DH
Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload
                                                               A1 DJ
License option -- Workload registration no charge
Level 0 incl 1 MSU, Workload Registration Per User Base
                                                               A1 DK
Level 0 Up to 45 MSU, Per Usage Addl Qty Workload Regist
                                                               A1 DL
Level 1 46-175 MSU, Per Usage Addl Qty Workload Regist
                                                               A1 DN
Level 2 176-315 MSU, Per Usage Addl Qty Workload Regist
                                                               A1 DM
Level 3 316-575 MSU, Per Usage Addl Qty Workload Regist
                                                               A1 DP
Level 3 316-575 MSU, Per 50 MSU Addl Qty Workload Regis
                                                               A1 DQ
Level 4 576-875 MSU, Per Usage Addl Qty Workload Regist
                                                               A1 DR
Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload Regis
                                                               A1 DT
Level 5 876-1315 MSU, Per Usage Addl Qty Workload Regis
                                                               A1 DU
Level 5 876-1315 MSU, Per 50 MSU Addl Qty Workload Regi
                                                               A1 DV
Level 6 1316-1975 MSU, Per Usage Addl Qty Workload Regi
                                                               A1 DW
Level 6 1316-1975 MSU, Per 50 MSU Addl Qty Workload Reg
                                                               A1 EA
Level 7 1976 MSU and up, Per Usage Addl Qty Workload Re
                                                               A1 EB
Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload R
                                                               A1 EC
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QMF Classic Edition

Level 0 incl 3 MSU, Workload Per User Base	A0TM
Level 0 Up to 45 MSU, Per Usage Addl Qty Workload	A0TN
Level 1 46-175 MSU, Per Usage Addl Qty Workload	A0TP
Level 2 176-315 MSU, Per Usage Addl Qty Workload	A0TQ
Level 3 316-575 MSU, Per Usage Addl Qty Workload	A0TR
Level 3 316-575 MSU, Per 50 MSU Addl Qty Workload	A0TT
Level 4 576-875 MSU, Per Usage Addl Qty Workload	A0TU
Level 4 576-875 MSU, Per 50 MSU Addl Qty Workload	A0TV
Level 5 876-1315 MSU, Per Usage Addl Qty Workload	A0TW
Level 5 876-1315 MSU, Per 50 MSU Addl Qty Workload	A0 UA
Level 6 1316-1975 MSU, Per Usage Addl Qty Workload	A0 UB
Level 6 1316-1975 MSU, Per 50 MSU Addl Qty Workload	A0 UC
Level 7 1976 MSU and up, Per Usage Addl Qty Workload	A0 UD
Level 7 1976 MSU and up, Per 50 MSU Addl Qty Workload	A0 UE

License option -- Workload registration no charge

Level 0 incl 1 MSU, Workloa	d Registration Per User Base	A0UF
Level 0 Up to 45 MSU, Per Us	age Addl Qty Workload Regist	A0UG
Level 1 46-175 MSU, Per Usa	ge Addl Qty Workload Regist	A0 UH
Level 2 176-315 MSU, Per Us	age Addl Qty Workload Regist	A0 UJ
Level 3 316-575 MSU, Per Us	age Addl Qty Workload Regist	A0UK
Level 3 316-575 MSU, Per 50	MSU Addl Qty Workload Regis	A0UL
Level 4 576-875 MSU, Per Us	age Addl Qty Workload Regist	A0 UM
Level 4 576-875 MSII Per 50	MSII Addl Ory Workload Regis	AOUN

Level 5 876-1315 MSU, Per	Usage Addl Qty Workload Regis	A0 UP
Level 5 876-1315 MSU, Per	50 MSU Addl Qty Workload Regi	A0 UQ
Level 6 1316-1975 MSU, Pe	r Usage Addl Qty Workload Regi	A0 UR
Level 6 1316-1975 MSU, Pe	r 50 MSU Addl Qty Workload Reg	A0 UT
Level 7 1976 MSU and up,	Per Usage Addl Qty Workload Re	A0 UU
Level 7 1976 MSU and up,	Per 50 MSU Addl Qty Workload R	A0 UV

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Entitlement	D ' ' '	License option/
i dent i fi er	Description	pricing metric
		Basic MLC, Variable WLC
		Workload Registration,
		Variable WLC
S011XS0	DB2 for z/OS	
S012J7R	QMF Classic Edition	
S012J7P	QMF Enterprise Edition	
S012J7T	z/OS Application	
	Connectivity to DB2	
	for z/OS	

Entry Workload License Charge (EWLC) basic license: To order a basic license, specify the program number and the quantity of MSUs.

To order EWLC software, specify the program number and the EWLC monthly charge feature number from the following table. Also, specify the feature number for the desired distribution medium.

EWLC Feature description	EWLC Feature number
DB2 V9.1 for z/OS	
Level 1 incl 3 MSU, Basic Per User Base EWLC Level 1 4-17 MSU, Per Usage Additional Qty EWLC Level 2 18-30 MSU, Per Usage Additional Qty EWLC Level 3 31-45 MSU, Per Usage Additional Qty EWLC Level 4 46-87 MSU, Per Usage Additional Qty EWLC Level 5 88-175 MSU, Per Usage Additional Qty EWLC Level 6 176-260 MSU, Per Usage Additional Qty EWLC Level 7 261 and up MSU, Per Usage Additional Qty EWLC	A0 DC A0 DD A0 DE A0 DF A0 DG A0 DH A0 DJ A0 DK
Level 7 261 and up MSU, Per 50 MSU Usage Addit Qty EWLC	A0 DL
QMF Classic Edition	
Level 1 incl 3 MSU, Basic Per User Base EWLC Level 1 4-17 MSU, Per Usage Additional Qty EWLC Level 2 18-30 MSU, Per Usage Additional Qty EWLC Level 3 31-45 MSU, Per Usage Additional Qty EWLC Level 4 46-87 MSU, Per Usage Additional Qty EWLC Level 5 88-175 MSU, Per Usage Additional Qty EWLC Level 6 176-260 MSU, Per Usage Additional Qty EWLC Level 7 261 and up MSU, Per Usage Additional Qty EWLC Level 7 261 and up MSU, Per Usage Additional Qty EWLC Level 7 261 and up MSU, Per Usage Additional Qty EWLC Level 7 261 and up MSU, Per S0 MSU Usage Addit Qty EWLC QMF Enterprise Edition	A0RJ A0RK A0RL A0RM A0RN A0RP A0RQ A0RR A0RT
Level 1 incl 3 MSU, Basic Per User Base EWLC Level 1 4-17 MSU, Per Usage Additional Qty EWLC Level 2 18-30 MSU, Per Usage Additional Qty EWLC Level 3 31-45 MSU, Per Usage Additional Qty EWLC Level 4 46-87 MSU, Per Usage Additional Qty EWLC Level 5 88-175 MSU, Per Usage Additional Qty EWLC Level 6 176-260 MSU, Per Usage Additional Qty EWLC Level 7 261 and up MSU, Per Usage Additional Qty EWLC Level 7 261 and up MSU, Per Usage Additional Qty EWLC Level 7 261 and up MSU, Per Usage Additional Qty EWLC	AI BN AI BP AI BQ AI BR AI BT AI BU AI BW AI CA
CHINA ONLY Begin	
EWLC	EWLC

Fe at ur e	Feat ur e
description	number
•	
DB2 V9.1 for z/OS	
Level 1 incl 3 MSU, Basic Per User Base EWLC	A0GE
Level 1 4-17 MSU, Per Usage Additional Qty EWLC	A0GF
Level 2 18-30 MSU, Per Usage Additional Qty EWLC	A0 GU
Level 3 31-45 MSU, Per Usage Additional Qty EWLC Level 4 46-87 MSU, Per Usage Additional Qty EWLC	A0 GH A0 GJ
Level 5 88-175 MSU, Per Usage Additional Qty EWLC	A0GK
Level 6 176-260 MSU, Per Usage Additional Qty EWLC	A0GL
Level 7 261 and up MSU, Per Usage Additional Qty EWLC	A0GL A0GM
Level 7 261 and up MSU, Per 50 MSU Usage Additional Qty	A0GN A0GN
Level 7 201 and up NBO, 101 30 NBO es age Additional Qty	AUGIN
QMF Classic Edition	
Level 1 incl 3 MSU, Basic Per User Base EWLC	A0 VL
Level 1 4-17 MSU, Per Usage Additional Qty EWLC	A0 VM
Level 2 18-30 MSU, Per Usage Additional Qty EWLC	A0 VN
Level 3 31-45 MSU, Per Usage Additional Qty EWLC	A0 VP
Level 4 46-87 MSU, Per Usage Additional Qty EWLC	A0 VQ
Level 5 88-175 MSU, Per Usage Additional Qty EWLC	A0 VR
Level 6 176-260 MSU, Per Usage Additional Qty EWLC	A0 VT
Level 7 261 and up MSU, Per Usage Additional Qty EWLC	A0 VU
Level 7 261 and up MSU, Per 50 MSU Usage Additional Qty	A0 VV
OLD FOR THE STATE OF THE STATE	
QMF Enterprise Edition	
Level 1 incl 3 MSU, Basic Per User Base EWLC	A1 EQ
Level 1 4-17 MSU, Per Usage Additional Qty EWLC	Al ER
Level 2 18-30 MSU, Per Usage Additional Qty EWLC	A1 ET
Level 3 31-45 MSU, Per Usage Additional Qty EWLC	A1 EU
Level 4 46-87 MSU, Per Usage Additional Qty EWLC	A1 EV
Level 5 88-175 MSU, Per Usage Additional Qty EWLC	A1 EW
Level 6 176-260 MSU, Per Usage Additional Qty EWLC	Al FA
Level 7 261 and up MSU, Per Usage Additional Qty EWLC	A1 FB
Level 7 261 and up MSU, Per 50 MSU Usage Addit Qty EWLC	A1 FC

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Entitlement i dentifier	Descript i on	License option/ pricing metric
S011XS0	DB2 for z/OS	Basic MLC, Entry WLC
S012J7R	QMF Classic Edition	
S012J7P	QMF Enterprise Edition	
S012J7T	z/OS Application	
	Connectivity to DB2	
	for 7/OS	

S/390® and **zSeries Usage License Charge basic license:** Specify the applicable S/390 and zSeries Usage License Charge option.

Charges will be based upon the peak MSUs. Usage reported between thresholds of features 1, 2, or 3 will be rounded up to the next MSU level. Above 1.0 MSU, usage will be rounded to the nearest whole MSU. For example, 2.4 MSUs would round to 2.0 MSUs for pricing, and 2.5 MSUs would round to 3.0 MSUs for pricing.

The customer's pricing will be determined by selecting either:

Usage license charge — Up to 0.5 MSU

Basic license monthly license charge

Feature	Feat ur e
description	number
DB2 V9.1 for z/OS	
Band 1, Up to 0.25 MSU	A0 AQ
Band 2, Up to 0.50 MSU	A0 AR

Usage license charge

Basic license monthly license charge

Feature description	Feat ur e number
DB2 V9.1 for z/OS	
Base, incl 1 MSU 1 11 MSU 12 44 MSU 45 78 MSU	A0 AT A0 AU A0 AV A0 AW
79 and up MSU, Per 50 additional quantity	A0 BA A0 BB

System usage registration no charge

Feature description Feature

System usage registration no charge AOBC

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Entitlement identifier Description

S011XS0 DB2 for z/OS
S012J7R QMF Classic Edition
S012J7P QMF Enterprise Edition
S012J7T z/OS Application Connectivity to DB2 for z/OS
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Examples for ordering:

- A customer with a measured usage (from the IBM Measured Usage report) of 0.3 MSU would order quantity 1 of the 0.26 to 0.5 MSU base feature.
- A customer with 6.6 MSUs (from the IBM Usage report) would:
 - Be rounded up to 7.0 MSUs
 - Order quantity 1 of the "0.51 to 1.0 MSU" base feature
 - Order quantity 6 of the Level A 1 MSU feature
- A customer with 15 MSUs (from the IBM Usage report) would:
 - Order quantity 1 of the "0.51 to 1.0 MSU" base feature
 - Order quantity 10 of the Level A 1 MSU feature
 - Order quantity 4 of the Level B 1 MSU feature
- A customer with 50 MSUs (from the IBM Usage report) would:
 - Order quantity 1 of the "0.51 to 1.0 MSU" base feature
 - Order quantity 10 of the Level A 1 MSU feature
 - Order quantity 33 of the Level B 1 MSU feature
 - Order quantity 6 of the Level C 1 MSU feature
- A customer with 85 MSUs (from the IBM Usage report) would:
 - Order quantity 1 of the "0.51 to 1.0 MSU" base feature
 - Order quantity 10 of the Level A 1 MSU feature
 - Order quantity 33 of the Level B 1 MSU feature
 - Order quantity 34 of the Level C 1 MSU feature
 - Order quantity 7 of the Level D 1 MSU feature

zSeries Entry License Charge (zELC): To order zELC software, specify the program number and z800 model.

Specify the zELC monthly charge feature number. Also, specify the feature number for the desired distribution medium.

```
z ELC
                                                     feat ure
z800 models
                                                     number
DB2 V9.1 for z/OS
A01 -- 1 engine Model A01 Basic
                                                     A3 AV
110 -- 1 engine Model 110 Basic
                                                     A0CM
0E1 -- 1 engine Model 0E1 Basic
                                                     A0CN
OA1 -- 1 engine
                  Model OAl Basic
                                                     A0 CP
0B1 -- 1 engine Model 0B1 Basic
                                                     A0CO
OC1 -- 1 engine Model OC1 Basic
                                                     A0 CR
0X2 -- 1 engine Model 0X2 Basic
                                                     A0CT
001 -- 1 engine Model 001 Basic
                                                     A0CU
0A2 -- 2 engines Model 0A2 Basic
                                                     A0CV
002 -- 2 engines Model 002 Basic
                                                     A0CW
003 -- 3 engines Model 003 Basic
                                                     AO DA
004 -- 4 engines Model 004 Basic
                                                     A0 DB
QMF Enterprise Edition
A01 -- 1 engine
                 Model A01 Basic
                                                     A3 AW
110 -- 1 engine
                  Model 110 Basic
                                                     A1 BB
0E1 -- 1 engine Model 0E1 Basic
                                                     A1 BC
0Al -- 1 engine Model 0Al Basic
                                                     A1 BD
OB1 -- 1 engine
                 Model OB1 Basic
                                                     A1 BE
OC1 -- 1 engine Model OC1 Basic
                                                     A1 BF
0X2 -- 1 engine Model 0X2 Basic
                                                     A1 BG
001 -- 1 engine Model 001 Basic
                                                     A1 BH
0A2 -- 2 engines Model 0A2 Basic
                                                     A1 BI
002 -- 2 engines Model 002 Basic
                                                     A1 BK
003 -- 3 engines Model 003 Basic
                                                     A1 BL
004 -- 4 engines Model 004 Basic
                                                     A1 BM
QMF Classic Edition
A01 -- 1 engine Model A01 Basic
                                                     A3BA
110 -- 1 engine
                 Model 110 Basic
                                                     A0QU
0E1 -- 1 engine Model 0E1 Basic
                                                     A0 OV
0Al -- 1 engine Model 0Al Basic
                                                     A0QW
0B1 -- 1 engine Model 0B1 Basic
                                                     A0RA
0C1 -- 1 engine Model 0C1 Basic
                                                     A0RB
0X2 -- 1 engine
                 Model 0X2 Basic
                                                     A0RC
001 -- 1 engine Model 001 Basic
                                                     A0RD
0A2 -- 2 engines Model 0A2 Basic
                                                     A0RE
002 -- 2 engines Model 002 Basic
                                                     A0RF
003 -- 3 engines Model 003 Basic
                                                     A0RG
004 -- 4 engines Model 004 Basic
                                                     A0RH
CHINA ONLY ---- Begin
                                                     z ELC
                                                     feature
z800 models
                                                     number
DB2 V9.1 for z/OS
                                                     A3BB
A01 -- 1 engine Model A01 Basic
110 -- 1 engine Model 110 Basic
                                                     A0FP
0E1 -- 1 engine Model 0E1 Basic
                                                     A0FQ
0A1 -- 1 engine Model 0A1 Basic
                                                     A0FR
OB1 -- 1 engine
                 Model OB1 Basic
                                                     A0FT
OC1 -- 1 engine
                 Model OC1 Basic
                                                     A0FU
0X2 -- 1 engine Model 0X2 Basic
                                                     A0FV
001 -- 1 engine Model 001 Basic
                                                     A0FW
0A2 -- 2 engines Model 0A2 Basic
                                                     A0GA
002 -- 2 engines Model 002 Basic
                                                     A0GB
003 -- 3 engines Model 003 Basic
                                                     A0GC
004 -- 4 engines Model 004 Basic
                                                     A0GD
QMF Enterprise Edition
```

A01	1	engi ne	Model	A01	Basic	A3BD
110	1	engi ne	Model	110	Basic	A1 ED
0E1	1	engi ne	Model	0E1	Basic	A1 EE
0A1	1	engi ne	Model	0 A1	Basic	A1 EF
0B1	1	engi ne	Model	0B1	Basic	A1 EG
0C1	1	engi ne	Model	0C1	Basic	A1 EH
0X2	1	engi ne	Model	0 X2	Basic	A1 EJ
001	1	engi ne	Model	001	Basic	A1 EK
0 A2	2	engi nes	Model	0A2	Basic	A1 EL
002	2	engi nes	Model	002	Basic	A1 EM
003	3	engi nes	Model	003	Basic	A1 EN
004	4	engi nes	Model	004	Basic	A1 EP
QMF Cla	ssi	c Editio	on			
A01	1	engi ne	Model	A01	Basic	A3BC
110	1	engi ne	Model	110	Basic	A0 UW
0E1	1	engi ne	Model	0E1	Basic	A0 VA
0A1	1	engi ne	Model	0 A1	Basic	A0 VB
0B1	1	engi ne	Model	0B1	Basic	A0 VC
0C1	1	engi ne	Model	0C1	Basic	A0 VD
0X2	1	engi ne	Model	0 X2	Basic	A0 VE
001	1	engi ne	Model	001	Basic	A0 VF
0A2	2	engi nes	Model	0 A2	Basic	A0 VG
002	2	engi nes	Model	002	Basic	A0 VH
003	3	engi nes	Model	003	Basic	A0 VJ
004	4	engi nes	Model	004	Basic	A0 VK

CHINA ONLY ---- End

For JAPAN only

Specify the zELC monthly license option.

Description	License option/ pricing metric
	Basic MLC, zELC
DB2 for z/OS	
QMF Classic Edition	
QMF Enterprise Edition	
z/OS Application	
Connectivity to DB2	
for z/OS	
	DB2 for z/OS QMF Classic Edition QMF Enterprise Edition z/OS Application Connectivity to DB2

Single version charging: To elect single version charging, the customer must notify and identify to IBM the prior program and replacement program and the designated machine the programs are operating on.

Basic machine-readable material

Note: Includes China

Feat ure descript i on	Feat ur e number
DB2 V9 for z/OS	
- English US, ENU - 3480 1/2" Data Cartridge	
34K bpi uncompressed	5950
- Japanese - Kanji (DBCS) (JPN) - 3480 1/2"	
Data Cartridge 34K bpi – Uncompressed	5963
DB2 Mgmt Clients Pkg	
- English US, ENU - 3480 1/2" Data Cartridge	
34K bpi - Uncompressed	5976
- Multilingual (MUL) - 3480 1/2" Data Cartridge	
34K bpi - Uncompressed	5989
QMF Classic Edition V9	
- English US, ENU - 3480 1/2" Data Cartridge	
34K bpi - Uncompressed	6000
- Multilingual (MUL) - 3480 1/2" Data Cartridge	
34K bpi - Uncompressed	6001
QMF Enterprise Edition V9	

- English US, ENU - 3480 1/2" Data Cartridge	
34K bpi - Uncompressed	6002
- Multilingual (MUL) - 3480 1/2" Data Cartridge	
34K bpi - Uncompressed	6003
z/OS App Connect to DB2	
- English US, ENU - 3480 1/2" Data Cartridge	
34K bpi - Uncompressed	6004
DB2 Diag Guide/Ref V9	
- English US, ENU - Hardcopy Publication	8000
DB2 Diag Quick Ref V9	
- English US, ENU - Hardcopy Publication	8001

For JAPAN only

Orderable supply ID	Language	Distribution medium	Descript i on
S012ZHP	U.S. English	3480 Tape Cartridge	DB2 V9.1 for z/OS
S012ZHT	Multilingual	3480 Tape Cartridge	DB2 Mgmt Client PKG
S012ZHX	Multilingual	3480 Tape Cartridge	QMF Classic Edition
S012ZJ1	Multilingual	3480 Tape Cartridge	QMF Enterprise Edition
S012ZJ3	Multilingual	3480 Tape Cartridge	z/OS App Connect to DB2

Customization options: Expedite shipments will be processed to receive 72-hour delivery from the time IBM Software Delivery and Fulfillment (SDF) receives the order. SDF will then ship the order via overnight air transportation.

Unlicensed documentation: Optional machine-readable material: To order, select the feature number for the desired distribution medium.

Unlicensed documentation: A memo and the program directory are shipped with the basic machine-readable material.

The following DB2 9 publications are shipped with the product tapes.

- · Installation Guide
- · Licensed Program Specifications
- Licensed Library Collection (CD-ROM)

The following optional publications are available for ordering immediately:

Title	Order number
DB2 V9.1 for z/OS	
Administration Guide	SC18-9840
Application Programming Guide and	SC18-9842
Reference for Java	
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

The following QMF publications are delivered in softcopy only. When ordering DB2 9, these QMF publications are included on the publication CD "DB2 9 Licensed Library Collection, LK3T-7195".

- · Introducing DB2 QMF
- Installing and Managing DB2 QMF for TSO and CICS
- Using DB2 QMF
- DB2 QMF Reference
- · DB2 QMF Messages and Codes
- · Developing DB2 QMF Applications
- · Installing and Managing DB2 QMF for Workstation and DB2 QMF for WebSphere
- · Getting Started with DB2 QMF for Workstations and DB2 QMF for WebSphere
- DB2 QMF High Performance Option User's Guide for TSO and CICS

DB2 9 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 following licensed materials are separately priced with an 8000 feature number, available only to customers with a DB2 9 license. 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 general availability maintenance updates. (DSN910.SDSNIVPD data set member DSNDR. FTP the data set to the workstation and open it with Adobe Acrobat Reader.)

Ti t l e	Order number	Entitlement i dentifier
DB2 9 for z/OS Diagnostic Guide and Reference Diagnostic Quick Reference*	LY37-3218 LY37-3219	S013NC3 S013NC4

^{*} 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 will be deprecated in DB2 9. Books that are new to the DB2 9 library will not be offered in the BookManager format. The BookManager format may be 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.

Customized offerings

Product deliverables are shipped only via Customized Offerings (for example, CBPDO, ServerPac, 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 is selected. Currently offered media types are:

- CBPDOs 3480, 3480 Compressed, 3490E, 3590, 3592*
- ServerPacs 3480, 3480 Compressed, 3490E, 3590, 3592*
- SystemPacs 3480, 3480 Compressed, 3490E, 3590, 3592*

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 general availability date.

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

Terms and conditions

Agreement: IBM Customer Agreement

Variable charges apply: No

Location license applies: No

Use limitation applies: No

Educational allowance available: Yes, 15% education allowance applies to qualified education

institution customers.

Volume orders: Not applicable.

Replaced	programs	Replacement programs
program	program	pr ogr a m pr ogr a m
number	n a me	number name
5740- XYR	DB2 V1	5635- DB2 DB2 V9
5665 - DB2	DB2 V2	5635- DB2 DB2 V9
5685 - DB2	DB2 V3	5635 - DB2 DB2 V9
5695 - DB2	DB2 V4	5635-DB2 DB2 V9
5655 - DB2	DB2 V5	5635 - DB2 DB2 V9
5645 - DB2	DB2 V6	5635-DB2 DB2 V9
5675 - DB2	DB2 V7	5635 - DB2 DB2 V9
5625 - DB2	DB2 V8	5635 - DB2 DB2 V9
5635 - DB2	DB2 V9	To a follow-on program, if any.

Warranty applies: Yes

Licensed program materials availability

- · Restricted materials of IBM: No
- · Non-restricted source materials: Some
- Object code only (OCO): Some

Program services

^{* 3592} is highest density media, which will ship the fewest number of media.

- Support Center applies: Yes. Access available through the IBM Support Center.
- Available until discontinued: 12-months written notice.
- · APAR mailing address:

IBM Corporation

APAR Processing

555 Bailey Avenue

San Jose, CA 95141

Program currency: IBM DB2 V9.1 for z/OS (5635-DB2)

Available until discontinued: 12-months written notice.

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