



# IBM DB2, IMS, and WebSphere information integration tools expanded and enhanced to help better manage database environments

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## At a glance

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New and enhanced DB2, IMS, and WebSphere information integration tools deliver:

- Administration
  - DB2 Administration Tool for z/OS, V7.2 (5697-L90)
  - DB2 Object Comparison Tool for z/OS, V7.2 (5697-L40)
  - IMS Audit Management Expert for z/OS, V1.1 (5655-R23)
  - IMS Online Reorganization Facility for z/OS, V1.2 (5655-H97)
- Performance management
  - DB2 Performance Toolkit for z/OS the SAP Edition, V2.1 (5697-M32)
- Transaction management
  - IMS High Performance Sysgen Tools for z/OS, V2.2 (5655-P43)
- Utilities
  - DB2 High Performance Unload for z/OS, V3.1 (5697-N58)
  - DB2 Storage Management Utility for z/OS, V1.1 (5655-P09)
  - IMS High Performance Fast Path Utilities for z/OS, V3.1 (5655-R05)
- Information integration solutions
  - WebSphere Classic Federation Server for z/OS, V9.1 (5655-R52)
  - WebSphere Classic Replication Server for z/OS, V9.1 (5655-R53)
  - WebSphere Classic Data Event Publisher for z/OS, V9.1 (5655-R54)
  - WebSphere Data Integration Classic Connector for z/OS, V9.1 (5655-R57)

### For ordering, contact:

Your IBM representative, an IBM Business Partner, or the Americas Call Centers at

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

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## Overview

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Six new products, three new versions, and four new releases of DB2®, IMST™, and WebSphere® information integration tools offer many innovative features to help database administrators (DBAs) and system programmers manage DB2 and IMS database environments.

## Products

- DB2 Storage Management Utility for z/OS®, V1.1 (5655-P09)
- IMS Audit Management Expert for z/OS, V1.1 (5655-R23)
- WebSphere Classic Federation Server for z/OS, V9.1 (5655-R52)
- WebSphere Classic Replication Server for z/OS, V9.1 (5655-R53)
- WebSphere Classic Data Event Publisher for z/OS, V9.1 (5655-R54)
- WebSphere Data Integration Classic Connector for z/OS, V9.1 (5655-R57)

## Versions

- DB2 High Performance Unload for z/OS, V3.1 (5697-N58)
- DB2 Performance Toolkit for z/OS the SAP Edition, V2.1 (5697-M32)
- IMS High Performance Fast Path Utilities for z/OS, V3.1 (5655-R05)

## Releases

- DB2 Administration Tool for z/OS, V7.2 (5697-L90)
- DB2 Object Comparison Tool for z/OS, V7.2 (5697-L40)
- IMS High Performance Sysgen Tools for z/OS, V2.2 (5655-P43)
- IMS Online Reorganization Facility for z/OS, V1.2 (5655-H97)

## For information on:

- Migration to WebSphere Classic Federation Server for z/OS, V9.1 and WebSphere Classic Data Event Publisher for z/OS, V9.1, refer to the Migration information section.
- Trade-ups to DB2 Storage Management Utility for z/OS, V1.1, refer to the Ordering information section.

To view a complete list of the DB2 and IMS tools, visit

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

To view a complete list of the WebSphere information integration tools, visit

<http://www.ibm.com/software/data/integration>

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## Key prerequisites

Any hardware configuration that supports the required versions of DB2 and IMS. Details are listed in the Hardware requirements and Software requirements sections.

## Planned availability dates

Refer to the Planned availability dates section.

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## Planned availability dates

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December 15, 2006:

DB2 High Performance Unload for z/OS, V3.1	5697-N58
DB2 Performance Toolkit for z/OS the SAP Edition, V2.1	5697-M32
DB2 Storage Management Utility for z/OS, V1.1	5655-P09
IMS Audit Management Expert for z/OS, V1.1	5655-R23
IMS High Performance Fast Path Utilities for z/OS, V3.1	5655-R05
IMS High Performance Sysgen Tools for z/OS, V2.2	5655-P43
IMS Online Reorganization Facility for z/OS, V1.2	5655-H97
WebSphere Classic Federation Server for z/OS, V9.1	5655-R52
WebSphere Classic Replication Server for z/OS, V9.1	5655-R53
WebSphere Classic Data Event Publisher for z/OS, V9.1	5655-R54
WebSphere Data Integration Classic Connector for z/OS, V9.1	5655-R57

January 26, 2007:

DB2 Administration Tool for z/OS, V7.2	5697-L90
DB2 Object Comparison Tool for z/OS, V7.2	5697-L40

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## Description

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IBM offers more than 80 tools that feature common interfaces and cross-tool integration, tested under the same configurations and workloads as the databases they support. As the industry enters the era of autonomic computing, DB2 and IMS tools will become increasingly self-managed in terms of dynamically monitoring and managing data, and in taking responsibility for decision making and initiating action.

### Administration

**DB2 Administration Tool for z/OS, V7.2 (5697-L90)** and **DB2 Object Comparison Tool for z/OS, V7.2 (5697-L40)**, when used together, provide a function-rich object management solution. Both tools are designed with an easy-to-use interactive system productivity facility (ISPF) interface that lets you:

- Manage and process DB2 objects
- Organize DB2 objects for better system throughput

DB2 Administration Tool for z/OS, V7.2 allows you to manage the tasks that keep DB2 performing at peak levels. It provides a comprehensive set of functions that helps your DB2 personnel manage their DB2 environments efficiently and effectively, including:

- Providing in-depth catalog navigation by:
  - Displaying and interpreting objects in the DB2 catalog
  - Executing dynamic SQL statements
- Integration with other DB2 tools to simplify the task process flow:
  - Table editing
  - SQL cost analysis

DB2 Object Comparison Tool for z/OS, V7.2 maximizes system availability by keeping production and testing database environments running in parallel. It:

- Simplifies the process of comparing objects and their dependents from different sources
- Synchronizes sources
- Consistently keeps production databases in step with those for testing and development

**Change management processing** is the main enhancement of the new releases of DB2 Administration Tool and DB2 Object Comparison Tool. By providing an interface to manage all

the version files for a database, the tools allow you to track the history of changes as well as select version files from a list rather than having to remember them in various panels.

You are given the option to specify a change owner and name for every piece of work, whether you are using Alter Table Columns (ALC) or Object Compare (OC) to effect the change. Change owner and name can then be used to provide a method for maintaining a relationship between version files, mask files, ignore files, generated DDL, and unloaded data. Using a management interface, you are then able to track and query changes to objects and quickly find all the components involved in a change.

Changes are stored in a change management database, which supports the capability to report on the contents of the data and answer questions such as, Who did what, when? This release also supports collaborative processing, allowing groups of users to work together and build changes by managing information through a series of DB2 tables. The key to this process is the capability of the tools to capture only the change information, not all the related objects. The tools can handle urgent changes that need to occur immediately. They also support virtual changes for the ALC, RDEF, CREATE, and Rename database functions in DB2 Administration Tool, giving you the ability to see changes that are in process but not apparent in the DB2 catalog. This collaborative processing ability can reduce the time you take to perform change management activities and decrease errors that may occur in a complex process.

The change processes are:

- Register a change in the database.
- Analyze how a change modifies existing objects and generate a Work Statement List (WSL) to execute the change.
- Apply (run) a change.
- Promote (move) changes from a source system to a target system.
- Recover the changes executed.
- Query the changes that have been defined or the objects that are being changed.

**IMS Audit Management Expert for z/OS, V1.1 (5655-R23)** is designed to meet the needs involved in auditing IMS environments. Auditors use IMS Audit Management Expert for z/OS to view, analyze, and report on data.

This new tool is the first centralized IMS auditing tool that collects and correlates data access information from a variety of IMS resources. The information is collected primarily from the IMS logs and SMF and is stored in a DB2 repository, which can be viewed through a GUI.

IMS Audit Management Expert for z/OS, V1.1 offers the following key features:

- The Audit Management Expert repository contains tables to define audited systems/objects and their properties in audit log tables. Three kinds of information are saved in the repository:
  - **Administrative information:** This information defines the overall IMS Audit Management Expert environment for this instance of the server.
  - **Security information:** IMS Audit Management Expert maintains its own user and security information to protect the potentially sensitive data collected in the repository. An Administration GUI allows authorized users the ability to create, edit, and view authorization and user profiles.
  - **Audit data:** All collected data is stored in DB2 tables in the Audit Management Expert repository. The tables are designed to achieve maximum performance for the potentially high volumes of data that could be generated in some IMS systems.
- The Reporting/Analysis GUI is an easy-to-use, auditor-friendly interface for viewing and analyzing information that has been collected into the Audit Management Expert repository audit log tables. The presentation and terminology reflects what you, as auditor, want to view.

It allows you to query the repository audit log tables with uncommitted read in order to avoid locking the tables when reports are run.

**IMS Online Reorganization Facility for z/OS, V1.2 (5655-H97)** is a high-performance tool that reduces downtime from hours to seconds and increases database administration productivity and efficiency with a single-step reorganization process. The tool can implement changes automatically across all online systems without the need for manual intervention. The single-step reorganization process can be used for all full-function databases, greatly reducing the complexity of the JCL needed to perform the many reorganization process steps.

With IMS Online Reorganization Facility for z/OS, you can:

- Reorganize HISAM, SHISAM, HIDAM, HDAM, PHIDAM, and PHDAM databases.
- Make selected DBD changes during the reorganization process, automatically propagating the changes to the participating online systems without manual intervention.
- Define the period when takeover time occurs, specifying a less-critical time window for when the database is unavailable.
- Automatically create and define the shadow data sets based on the existing database data sets:
  - System Managed Storage (SMS) allocation uses the same SMS constructs and candidate volumes.
  - Non-SMS allocation uses the same volume serials.
- Allow a user exit to be specified during load, which can be used to perform tasks such as purge or change data.

All features and functionality of the previous release and the following enhancements are included:

- Support for batch message processing programs (BMPs) that allow you to pause BMPs during /DBRECOVERY commands
- Support for CICS® and OTMA applications that quiesce database access during /DBRECOVERY commands
- Reorganization of all High Availability Large Database (HALDB) partitions in single job step
- The ability to reorganize just an index (including PSINDEX) database while it remains online
- Support for HALDBs with internal logical relationships
- The ability to unload a database while it is being updated online

IMS Online Reorganization Facility for z/OS, V1.2 dynamically detects the existence of the following tools and utilizes them accordingly:

- IMS High Performance Unload for OS/390®, V1.1 (5655-E06)
- IMS High Performance Load for z/OS, V2.1 (5655-M26)
- IMS High Performance Image Copy for z/OS, V3.1 (5655-K96), or later, or IMS High Performance Image Copy for z/OS, V4.1 (5655-N45)
- IMS High Performance Pointer Checker for z/OS, V2.1 (5655-K53), or later
- IMS High Performance Prefix Resolution for z/OS, V3.1 (5655-M27)

The tools listed must be at the latest maintenance level. If these tools are not available on the system, then IMS Online Reorganization Facility for z/OS, V1.2 uses the IMS utilities.

### **Performance management**

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**DB2 Performance Toolkit for z/OS the SAP Edition, V2.1 (5697-M32)** is available only on your IBM System z™ machines that are dedicated to SAP ERP environments. It helps optimize your SAP ERP solution investments by providing better performance management by making available to your SAP ERP solution systems all the functions of:

- Tivoli® OMEGAMON® XE for DB2 Performance Expert on z/OS, V4.1 (5655-Q07)
- DB2 Query Monitor for z/OS, V2.2 (5697-I03)

The Tivoli OMEGAMON XE for DB2 Performance Expert facilities help you:

- Automate the analysis of your database performance in real time
- Assess the efficiency of and optimize performance from your DB2 Universal Database® on z/OS environment

Combined are the sophisticated reporting, monitoring, and buffer pool analysis features of the

IBM Tivoli OMEGAMON XE for DB2 Performance Monitor and IBM DB2 Buffer Pool Analyzer products. It also adds expert database analysis functions to help you maximize performance and enhance productivity.

DB2 Query Monitor facilities give you the ability to efficiently customize and tune your SQL workload and DB2 objects to ensure the effectiveness of your DB2 subsystems and improve overall performance. The tool offers you extensive choices so you can determine what monitoring information you will gather, and when.

Because it installs into two different areas of z/OS, DB2 Performance Toolkit has unique ordering requirements. See your IBM representative for assistance when ordering.

### **Transaction management**

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**IMS High Performance Sysgen Tools for z/OS, V2.2 (5655-P43)** offers an integrated solution that helps reduce the requirement for IMS sysgens. With IMS HP Sysgen Tools for z/OS, DBAs and system programmers have reliable, easy-to-use IMS management tools to make application resource changes faster using fewer resources.

IMS HP Sysgen Tools for z/OS, V2.2 contains all of the features and functions of the previous release and provides the following enhancements:

- IMSplex support provides the capability to simultaneously update multiple IMS control regions when executing a resource update list.
- Undo a resource update list. Enhancements to the IMS HP Sysgen Tools history log provide the capability to select individual resource changes to be undone.
- Additional options for reverse sysgen, including the capability to select either in-core control blocks or MODBLKS data set resource definitions.
- ISPF IMS command interface.
- Ability to issue IMS commands as part of the installation of a resource update list.
- IMS storage display and zap provide the capability to display and alter IMS control blocks and storage. A storage map provides z/OS virtual storage boundaries and percentage utilization for common storage areas.
- Ability to dynamically update Security Maintenance Utility (SMU) definitions for transaction command authorization, command and transaction security for logical terminal names, and application group name resource definitions.
- Ability to reload ACBLIB definitions for DBDs and program specification blocks without using online change for ACBLIB.
- Ability to generate a resource update list that will make IMS control blocks match IMS sysgen source macros.

### **Utilities management**

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**DB2 High Performance Unload for z/OS, V3.1 (5697-N58)** is a high-speed utility for unloading DB2 tables from either a table space or a backup. Enhancements in this version include:

- DB2 V9 support
- Support for LISTDEF and TEMPLATE statements and the TEMPLATESET keyword in the OPTIONS block
- New FORMAT EXTERNAL
- New INTO clause in the SELECT
- New REFORMAT option
- The ability to specify parallelism degree:
  - For DB2 processed SELECT
  - When unloading multiple table spaces in the same UNLOAD command
- The ability to use external DDL when unloading data from an image copy

**DB2 Storage Management Utility for z/OS, V1.1 (5655-P09)** is a DB2 space management tool that enables you to verify the integrity of your DB2 table spaces and index spaces and suggests ways to repair spaces with errors and recover wasted DASD space.

DB2 Storage Management Utility for z/OS:

- Displays information by volume, database, or table space, making it easy to understand DASD constraints
- Permits you to verify the integrity of your DB2 table spaces and index spaces
- Performs interactive scans and space map analysis
- Analyzes space-related factors that affect DB2 performance
- Reviews DB2 space map pages to produce detailed reports and graphs that give an overall picture of the condition of a given space
- Finds DB2 widows and orphans, which simplifies the clean-up of nonexistent and forgotten DB2 objects and VSAM data sets
- Allows you to view historical information about the number of data sets, number of extents, and space allocated compared against space used that you can use for DASD trend analysis and capacity planning

Some of the functions that were previously available in DB2 !DB/DASD 6.1.0 and DB2 !DB/SMU 6.1.0 will be introduced through the service stream. The functions are REPAIR, MOVE, DUMP, RESTORE, ALTER, and RUNSTATS.

Trade-ups are available to DB2 Storage Management Utility from DB2 !DB/DASD V6.1.0 (5655-N82) and DB2 !DB/SMU V6.1.0 (5655-N86), if you have a current Subscription and Support license for one or both of these products. Refer to the Ordering information section for details.

**IMS High Performance Fast Path Utilities for z/OS, V3.1 (5655-R05)** is composed of IMS Fast Path Advanced Tool, IMS Fast Path Online Tools, and IMS Fast Path Basic Tools. It provides all functions of the previous release and is enhanced as follows:

- **IMS Fast Path Advanced Tool** is the new name of the IMS High Performance Fast Path Reorganization Tool.

IMS Fast Path Advanced Tool improves JCL ease-of-use by enabling you to use the same JCL for various functions by merely changing the command name. By using this tool, you can easily and quickly develop a standard, single driver for unloading, reloading, reorganizing, analyzing, and extracting multiple Data Entry Database (DEDB) areas. Additionally, it integrates various tool functions and improves processing efficiency and greatly reduces the time and resources required for database administration in parallel in a single job step.

IMS Fast Path Advanced Tool has the following enhancements:

- Extract function: Retrieves segment data from multiple DEDB areas and writes that data into a sequential file in a user-specified format.
  - DMAC print utility: Enables printing the contents of the DMAC block for multiple DEDB areas.
  - Image copies: Enables you to input or to generate image copies with the following functions:
    - Analyze
    - Change
    - Extract
    - Reload
    - Unload
  - IMS Fast Path Online Tools run in an online IMS environment and provide the interface to the IMS Fast Path Advanced Tool and to the IMS Fast Path Basic Tools. IMS Fast Path Online Tools consist of Online DEDB Pointer Checker, DEDB Online Data Extract, DEDB Area Extender, DEDB Online Expert Reorganization, and DEDB Online DMAC print. You can use these utilities to boost system availability by performing a variety of key functions without having to take your IMS database offline.
- The following utilities are new in Version 3.1:
- Online Expert Reorganization utility enables the reorganization of a set of units of work (UOWs) in a DEDB area based on UOWs that are ranked by the fragmentation level. UOWs can be reorganized starting with the one for which the effect of reorganization is

expected most, to any number of UOWs that are specified. You can select the Online Pointer Check option as a subfunction of Online Expert Reorganization. When selected, Online Pointer Check runs after the reorganization is completed.

- The Online DMAC print utility enables printing the contents of the DMAC block for multiple DEDB areas.

The commands and their keywords for these utilities are specified in a single input stream and no longer as a combination of SYSIN or another input stream as was required for IMS Fast Path Online Tools V2.

- IMS Fast Path Basic Tools include DEDB Unload/Reload, DEDB Pointer Checker, and DEDB Tuning Aid. Additional utilities are included for compatibility reasons.

## Information integration solutions

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**WebSphere Classic Federation Server for z/OS, V9.1 (5655-R52)** provides SQL access to mainframe databases and files with transactional speed and enterprise scale without mainframe programming. Using WebSphere Classic Federation Server, applications and tools can issue SQL SELECT, INSERT, UPDATE, and DELETE commands using open database connectivity, Java™ database connectivity, or a command-level interface to access System z data stored in VSAM, IAM, and sequential files, as well as DB2 UDB for z/OS, IMS, Software AG Adabas, and Computer Associates CA-Datcom and CA-IDMS databases — all without mainframe programming.

This release provides Classic Data Architect, a new Eclipse-based GUI tool for interactive and dynamic metadata management, significant improvements in DB2 data access performance, 64-bit client platforms, enhanced automation of support for redefined data, expanded automation associated with metadata management, significant additions to the integration between existing Adabas and IDMS metadata and the Classic Data Architect, as well as improved flexibility in handling IMS PCB selection.

**WebSphere Classic Replication Server for z/OS, V9.1 (5655-R53)** provides System z data sourcing for IBM's queue-based replication solution, WebSphere Replication Server for z/OS, V9.1. WebSphere Classic Replication Server supports SQL-driven access and near-real time changed-data feeds over WebSphere MQ from VSAM files and IMS, Computer Associates CA-IDMS, and Software AG Adabas. Data is specifically formatted for consumption by WebSphere Replication Server's queue-replication capabilities, enabling targeting of DB2, Oracle, SQL Server, and Sybase.

WebSphere Classic Replication Server automatically reformats captured System z data into relational constructs before delivering it to WebSphere MQ. WebSphere Replication Server then picks up the changes from WebSphere MQ and applies the changes to the target database. WebSphere Classic Replication Server maintains transactional integrity and is fully recoverable.

WebSphere Classic Replication Server leverages a common infrastructure with WebSphere Classic Federation Server for z/OS and WebSphere Classic Data Event Publisher for z/OS, including the Classic Data Architect GUI metadata management tool.

**WebSphere Classic Data Event Publisher for z/OS, V9.1 (5655-R54)** makes it easy to link changed-data events with business processes as well as drive change-only updating of data warehouses, data marts, and operational data stores. WebSphere Classic Data Event Publisher features support the capture of changes made to IMS, VSAM, Computer Associates CA-IDMS, and Software AG Adabas data and the publishing of these changes to WebSphere MQ queues. Changes are captured during active log or journal processing or by reading source-specific recovery logs. Captured data is automatically reformatted into a consistent relational format before packaging into either XML or delimited values format for publishing. Transactional integrity is maintained and recovery is enabled for all sources. Any application, tool, or service that integrates either with WebSphere MQ directly or supports Java Message Service can asynchronously receive the data changes as they occur.

WebSphere Classic Data Event Publisher features enable database events to initiate business processes. For example, a change in an inventory value could be used to drive a product restocking workflow, or the addition of a customer record could initiate a new customer process that includes a welcome e-mail, credit verification, and accounting update. This creates an application-independent, loosely coupled integration that is more adaptable to changing application environments. For example, while multiple applications may impact the value of the inventory level, a single point of integration — the data — is driving the workflow. Changes to the applications that impact the inventory level can be made with no impact on the data event-driven integration. Business can realize faster time to market because integration captures the event in a single location, is more stable, and is easier to maintain.



Additionally, WebSphere Classic Data Event Publisher solutions can deliver changes to Extract, Transform, and Load tools like WebSphere DataStage®, or custom-built processes for updating operational data stores or data warehouses, minimizing bandwidth requirements and keeping target databases updated in near real time. Businesses can utilize information that is far more current for tactical and operational decision making.

This release provides Classic Data Architect, a new Eclipse-based GUI tool for interactive and dynamic metadata management, as well as new VSAM journal-based capture agents requiring minimal logging resources, and a new VSAM file-based capture agent that captures changes made by batch applications. These new VSAM capture agents extend the power of the pre-Version 9.1 VSAM agent that uses forward recovery logs.

**WebSphere Data Integration Classic Connector for z/OS, V9.1(5655-R57)** is a new product that provides all the data access capabilities of WebSphere Classic Federation Server (5655-R52) and all of the data event publishing capabilities of WebSphere Classic Data Event Publisher for z/OS, V9.1 (5655-R54) licensed and priced specifically for use with IBM WebSphere DataStage, WebSphere QualityStage, IBM Information Server, and other selected products in the Information Integration Solutions portfolio. WebSphere Data Integration Classic Connector is ideal for you if you plan to use data access or data event publishing only with these selected Information Integration Solutions products.

The unrestricted WebSphere Classic Federation Server (5655-R52) is the right product for you if you want to leverage the benefits of mainframe data access more broadly in your enterprise; for example, for connecting an enterprise portal to human resource data or accounting data that resides in IMS, VSAM, or other database systems on System z. The unrestricted WebSphere Classic Data Event Publisher for z/OS, V9.1 is the right product for you if you want to leverage the benefits of data event publishing more broadly; for example, for monitoring critical events, initiating business processes, and for application-to-application integration.

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

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The products in this announcement are capable as of their planned availability, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it.

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

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Value Unit pricing for eligible zSeries® IPLA programs enables a lower cost of incremental growth and enterprise aggregation. Each zSeries IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for customers. For each zSeries IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the "required license capacity." Each of the various Value Unit Exhibits stipulate that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are uniquely identified by a three-digit code and referred to using the nomenclature VUExxx, where xxx is the three-digit code.

Subsequent acquisitions of Value Unit-priced programs offers additional price benefits for customers. The quantity of each zSeries IPLA program that you have acquired is referred to as "entitled license capacity." If you want to grow your entitled license capacity for a zSeries IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each zSeries IPLA program with Value Unit Pricing, you should:

- Determine the required license capacity, in MSUs
- Aggregate the MSUs across the enterprise
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost

To simplify conversion from the designated measurement to VUs or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool Web site

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

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the zSeries IPLA program you selected, refer to the Terms and conditions section.

### **Business Partner information**

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If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld ID and password are required (use IBM ID).

BP Attachment for Announcement Letter 206-314

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=206-314>

### **Trademarks**

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

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Java is a trademark of Sun Microsystems, Inc.

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### **Migration information**

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If you have the current offerings listed in the following table, you are entitled to corresponding replacement offerings shown in the table. You can migrate your use entitlements based on the current Subscription and Support pricing of the replacement offering. You must be current on maintenance to be eligible for migrations. If you are not current on maintenance, you will have to pay a get-current or maintenance reinstatement fee.

The migration is for the same capacity as currently licensed. You will be migrated to ensure that you are entitled to use the software on the same systems on which you are using the current offerings.

Current offering name	Replacement offering name
WebSphere(R) Information Integrator Classic Federation V8.2 (5697-I82)	WebSphere Classic Federation Server V9.1 (5655-R52) For the features that correspond to your licensed use of 5697-I82
WebSphere Information Integrator Classic Event Publisher for IMS(TM) V8.2 (5655-M38)	WebSphere Classic Data Event Publisher V9.1 (5655-R54) This feature only: WebSphere Classic Data Event Publisher for Publishing of IMS
WebSphere Information Integrator Classic Event Publisher for VSAM V8.2 (5655-M35)	WebSphere Classic Data Event Publisher V9.1 (5655-R54) This feature only: WebSphere Classic Data Event Publisher for Publishing of VSAM
WebSphere Information Integrator Classic Event Publisher for CA-IDMS V8.2 (5655-N56)	WebSphere Classic Data Event Publisher V9.1 (5655-R54) This feature only: WebSphere

WebSphere Information Integrator  
Classic Event Publisher for  
Software AG Adabas V8.2  
(5655-P12)

WebSphere Classic Data Event  
Publisher V9.1 (5655-R54)  
This feature only: WebSphere  
Classic Data Event Publisher  
for Publishing of Software  
AG Adabas

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## Offering Information

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Product information is available via the Offering Information Web site

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

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## Publications

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The IBM Publications Center portal is at

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

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card or customer number. A large number of publications are available online in various file formats. They can all be downloaded free of charge.

One copy of the following publications is supplied automatically with the basic machine-readable material.

Title	Order number
DB2® Administration Tool for z/OS®, V7.2 (5697-L90)	
License Information	GC18-9553
Program Directory	GI10-8684
DB2 High Performance Unload for z/OS, V3.1 (5697-N58)	
License Information	GC19-1094
Program Directory	GI10-8745
DB2 Object Comparison Tool for z/OS, V7.2 (5697-L40)	
License Information	GC18-9555
Program Directory	GI10-8685
DB2 Performance Toolkit for z/OS the SAP Edition, V2.1 (5697-M32)	
License Information	GC18-9965
Program Directory	GI10-8718
Tivoli (R) Monitoring Services	LCD7-0836
Tivoli Monitoring: Upgrade Road Map for OMEGAMON(R) XE Version 4.1 Monitoring Agents	GC32-1980
Monitoring Performance from the OMEGAMON Classic Interface	SC18-9988
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS Documentation CD-ROM (Available 90 days after GA)	SK5T-7323
Tivoli OMEGAMON Data Files for z/OS CD-ROM (z/OS common seeding CD)	LCD7-0963
Tivoli Monitoring CD-ROM Vol 1 (Windows™)	LCD7-0789
Tivoli Monitoring CD-ROM Vol 2 (Unix - AIX® and Solaris)	LCD7-0790
Tivoli Monitoring CD-ROM Vol 3 (Unix - hpux)	LCD7-0870
Tivoli Monitoring CD-ROM Vol 4 (Intel® Linux™ - Red Hat and SUSE)	LCD7-0791

Tivoli Monitoring Services on z/OS Language Pack CD-ROM	LCD7-0792
Tivoli Monitoring Services on z/OS Documentation CD-ROM	SCD7-0793
DB2 UDB Enterprise Server Edition 8.2: Windows CD-ROM	LCD7-0901
DB2 UDB Enterprise Server Edition 8.2: AIX English, French, German, Italian CD-ROM	LCD7-0900
DB2 UDB Enterprise Server Edition 8.2: AIX English, Spanish Braz Port CD-ROM	LCD7-0852
DB2 UDB Enterprise Server Edition 8.2: AIX AP Languages CD-ROM	LCD7-0853
DB2 UDB Enterprise Server Edition 8.2: Solaris CD-ROM	LCD7-0903
DB2 UDB Enterprise Server Edition 8.2: HP-UX CD-ROM	LCD7-0902
DB2 UDB Enterprise Server Edition 8.2: Linux for Intel CD-ROM	LCD7-0805
DB2 UDB Enterprise Server Edition 8.2: Linux for i and p Series CD-ROM	LCD7-0806
DB2 UDB Enterprise Server Edition 8.2: Linux for S/390® CD-ROM	LCD7-0889
DB2 UDB Enterprise Server Edition 8.2: Linux for zSeries® CD-ROM	LCD7-0890
DB2 Storage Management Utility for z/OS, V1.1 (5655-P09)	
License Information	GC19-1062
Program Directory	GI10-8735
IMS Audit Management Expert for z/OS, V1.1 (5655-R23)	
License Information	GC18-9866
Program Directory	GI10-8709
IMS High Performance Fast Path Utilities for z/OS, V3.1 (5655-R05)	
License Information	GC18-9868
Program Directory	GI10-8710
IMS High Performance Sysgen Tools for z/OS, V2.2 (5655-P43)	
License Information	GC18-9473
Program Directory	GI10-8677
IMS Online Reorganization Facility for z/OS, V1.2 (5655-H97)	
License Information	GC27-1576
Program Directory	GI10-8446
WebSphere Classic Federation Server for z/OS, V9.1 (5655-R52)	
License Information	GC19-1114
Program Directory	GI10-8750
Installation Guide	GC19-1139
WebSphere Classic Replication Server for z/OS, V9.1 (5655-R53)	
License Information	GC19-1115
Program Directory	GI10-8751
Installation Guide	GC19-1138
WebSphere Classic Data Event Publisher for z/OS, V9.1 (5655-R54)	
License Information	GC19-1116
Program Directory	GI10-8752
Installation Guide	GC19-1140
WebSphere Data Integration Classic Connector for z/OS, V9.1 (5655-R57)	
License Information	GC19-1117
Program Directory	GI10-8753
Installation Guide	GC19-1141

The publications for the WebSphere products in this announcement are available for hardcopy

ordering from the IBM Publications Center. The publications for the other products in this announcement cannot be ordered in hardcopy. All the publications in this announcement are available at

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

Except for the WebSphere products, publications are available in PDF and BookManager® formats on CD-ROM and on DVD on the next release of software product libraries:

- z/OS Software Products Collection (SK3T-4270)
- z/OS and Software Products DVD Collection (SK3T-4271) (requires a DVD drive in DVD-9 (single-sided, dual-layer) format)

Title	Order number
DB2 Administration Tool for z/OS, V7.2 (5697-L90) User's Guide	SC18-9552
DB2 High Performance Unload for z/OS, V3.1 (5697-N58) User's Guide	SC19-1095
DB2 Object Comparison Tool for z/OS, V7.2 (5697-L40) User's Guide	SC18-9554
DB2 Performance Toolkit for z/OS the SAP Edition, V2.1 (5697-M32)	
DB2 Query Monitor User's Guide	SC18-9202
Configuration and Customization	GC18-9979
Messages	GC18-9980
Monitoring Performance from ISPF	SC18-9981
Monitoring Performance from Expert Client	SC18-9982
Reporting Users Guide	SC18-9983
Report Reference	SC18-9984
Report Command Reference	SC18-9985
Information Roadmap	GC18-9834
DB2 Buffer Pool Analyzer User's Guide	SC18-9986
DB2 Storage Management Utility for z/OS, V1.1 (5655-P09) User's Guide	SC19-1063
IMS Audit Management Expert for z/OS, V1.1 (5655-R23) User's Guide	SC18-9867
IMS High Performance Fast Path Utilities for z/OS, V3.1 (5655-R05)	
User's Guide: Volume 1 High Performance Fast Path Reorganization Tool	SC18-9869
User's Guide: Volume 2 Fast Path Basic Tools	SC18-9870
User's Guide: Volume 3 Fast Path Online Tools	SC18-9871
IMS High Performance Sysgen Tools for z/OS, V2.2 (5655-P43) User's Guide	SC18-9474
IMS Online Reorganization Facility for z/OS, V1.2 (5655-H97) User's Guide	SC27-1577
WebSphere Classic Federation Server for z/OS, V9.1 (5655-R52)	
WebSphere II Classic Federation Guide and Reference	SC19-1122
WebSphere II Classic Data Event Publisher, Classic Federation, and Classic Replication Installation Guide	GC19-1125
WebSphere II Classic Data Event Publisher, Classic Federation, and Classic Replication Introduction	SC19-1126
WebSphere II Classic Data Event Publisher and Classic Federation Client Guide	SC19-1124
WebSphere II Classic Data Event Publisher and Classic	SC19-1127

Federation Migration Guide  
 WebSphere II Classic Data Event Publisher and Classic Federation SQL Reference SC19-1128  
 WebSphere II Classic Data Event Publisher and Classic Federation System Messages GC19-1129  
 WebSphere II Classic Federation Transaction Services Guide SC19-1123

WebSphere Classic Replication Server for z/OS, V9.1 (5655-R53)  
 WebSphere II Classic Replication Guide and Reference SC19-1130  
 WebSphere II Classic Data Event Publisher, Classic Federation, and Classic Replication Installation Guide GC19-1125  
 WebSphere II Classic Data Event Publisher, Classic Federation, and Classic Replication Introduction SC19-1126  
 WebSphere II ASNCLP Program Reference for Replication and Event Publishing SC19-1018

WebSphere Classic Data Event Publisher for z/OS, V9.1 (5655-R54)  
 WebSphere II Classic Data Event Publisher Guide and Reference SC19-1121  
 WebSphere II Classic Data Event Publisher, Classic Federation, and Classic Replication Installation Guide GC19-1125  
 WebSphere II Classic Data Event Publisher, Classic Federation, and Classic Replication Introduction SC19-1126  
 WebSphere II Classic Data Event Publisher and Classic Federation Client Guide SC19-1124  
 WebSphere II Classic Data Event Publisher and Classic Federation Migration Guide SC19-1127  
 WebSphere II Classic Data Event Publisher and Classic Federation SQL Reference SC19-1128  
 WebSphere II Classic Data Event Publisher and Classic Federation System Messages GC19-1129

WebSphere Data Integration Classic Connector for z/OS, V9.1 (5655-R57)  
 WebSphere II Classic Data Event Publisher Guide and Reference SC19-1121  
 WebSphere II Classic Data Event Publisher, Classic Federation, and Classic Replication Installation Guide GC19-1125  
 WebSphere II Classic Data Event Publisher, Classic Federation, and Classic Replication Introduction SC19-1126  
 WebSphere II Classic Data Event Publisher and Classic Federation Client Guide SC19-1124  
 WebSphere II Classic Data Event Publisher and Classic Federation Migration Guide SC19-1127  
 WebSphere II Classic Data Event Publisher and Classic Federation SQL Reference SC19-1128  
 WebSphere II Classic Data Event Publisher and Classic Federation System Messages GC19-1129

The following material is available at

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

- Overview brochure: IBM DB2 and IMS Tools (IM211759-USEN)
- Fact sheets:
  - DB2 Administration and Change Management Tools for z/OS (IMD11953-USEN)
  - DB2 High Performance Unload for z/OS (IMD11954-USEN)
  - DB2 Storage Management Utility for z/OS (IMD11952-USEN)
  - DB2 Toolkits the SAP Editions Fact Sheet (IMD11951-USEN)
  - IMS Audit Management Expert for z/OS (IMD11950-USEN)
  - IMS High Performance Fast Path Utilities for z/OS (IMD11949-USEN)

- IMS High Performance System Generation Tools for z/OS (G507-1520)
- IMS Online Reorganization Facility for z/OS (G507-1462)
- Regulatory Compliance Tools Suite (IMD11753-USEN)
- WebSphere Classic Federation Server for z/OS V9.1, Federating Mainframe Data (IMD11796-USEN)
- WebSphere Replication Server Offerings V9.1, Replicating Data (IMD11797-USEN)
- WebSphere Data Event Publishing Offerings V9.1, Publishing Data Events (IMD11798-USEN)

Specification sheets, user's guides, and white papers are also available on CD-ROM (GK3T-7099). This CD-ROM can be ordered from the IBM Publications Center Portal at

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

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## Technical information

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**Hardware requirements:** DB2 Performance Toolkit for z/OS the SAP Edition, V2.1 (5697-M32) will operate on any hardware configuration that supports the required versions of DB2 and the applicable SAP ERP solution software.

IMS Audit Management Expert for z/OS, V1.1 (5655-R23) operates on any hardware configuration that supports the following:

- Client:
  - Any hardware that is capable of running Windows 2000 Professional or Windows XP Professional with a minimum of:
    - 150 MB free disk space
    - 512 MB memory
- Server:
  - Any hardware that is capable of running IMS V9
  - Any hardware that is capable of running DB2 V7, V8, or V9<sup>1</sup>
- Auxiliary storage:
  - DASD storage for the repository DB2 table spaces

The other products in this announcement will operate on any hardware S/390 configuration that supports the required versions of DB2 and IMS.

<sup>1</sup> Refer to the DB2 V9 [206-098](#), dated May 2, 2006, for more information or talk to your IBM representative.

**Software requirements: The DB2 products in this announcement require one of these:**

- z/OS V1.6 (5694-A01), or later
- z/OS.e V1.6 (5655-G52), or later

DB2 Administration Tool for z/OS, V7.2 (5697-L90) and DB2 Object Comparison Tool for z/OS, V7.2 (5697-L40) are designed to operate with the following DB2 versions:

- DB2 V7 (5675-DB2)
- DB2 V8 (5625-DB2)

DB2 Administration Tool V7.2 has a conditional operational requirement for DB2 Object Comparison Tool V7.2 for use of change management processing.

DB2 Object Comparison Tool V7.2 has a mandatory operational requirement and a mandatory installation requisite for DB2 Administration Tool V7.2.

DB2 High Performance Unload for z/OS, V3.1 (5697-N58), DB2 Performance Toolkit for z/OS the SAP Edition, V2.1 (5697-M32), and DB2 Storage Management Utility for z/OS, V1.1 (5655-P09) are designed to operate with the following DB2 versions:

- DB2 V7 (5675-DB2)
- DB2 V8 (5625-DB2)
- DB2 V9 (5635-DB2)<sup>1</sup>

**The IMS products in this announcement:**

- Require z/OS V1.6 (5694-A01), or later
- If not stated otherwise, are designed to operate with the following IMS versions:
  - IMS V8 (5655-C56)
  - IMS V9 (5655-J38)

IMS Audit Management Expert for z/OS, V1.1 (5655-R23) has the following mandatory operational requirements:

- Server:
  - z/OS V1.6 (5694-A01), or later, with Integrated Cryptographic Service Facility enabled at the server's host
  - Any one of the following DB2 versions:
    - DB2 V7 (5675-DB2)
    - DB2 V8 (5625-DB2)
    - DB2 V9 (5635-DB2)<sup>1</sup>
  - IMS V9 (5655-J38)
- Client:
  - Windows 2000 Professional or Windows XP Professional (32-bit).
  - DB2 UDB for Windows: IMS Audit Management Expert for z/OS, V1.1 Reporting Client operates on any software configurations that support DB2 Connect® Enterprise Edition V8.1 FixPack 7a, or later. Specifically, this includes platforms that support Windows 2000 Professional or Windows XP Professional (32-bit).

IMS High Performance Fast Path Utilities for z/OS, V3.1 (PID 5655-R05) software requirements:

- Mandatory installation requirements are z/OS V1.6 (5694-A01), or later, and one of the following:
  - IMS V8.1 (5655-C56)
  - IMS V9.1 (5655-J38)
- A mandatory operational requirement is one of the following:
  - IMS V8.1 (5655-C56) with APAR PK15110
  - IMS V9.1 (5655-J38) with APAR PK15111
- Conditional operational requirements are:
  - z/OS V1.6 (5694-A01), or later, (includes DFSORT™) or a functionally equivalent sort program for Pointer Checker and Reload
  - IMS High Performance Image Copy for z/OS, V4.1 (5655-N45) at current maintenance level for reload with IC, Online Pointer Checker with image copy compression, and Fast Path Advanced Tool with image copy
  - One of the following:
    - IMS V8.1 (5655-C56) with APAR PK25289 for Online Data Extract and Online DMAC Print with AREA=ALL
    - IMS V9.1 (5655-J38) with APAR PK25294 for Online Data Extract and Online DMAC Print with AREA=ALL



**WebSphere information integration products in this announcement require z/OS V1.6 (5694-A01), or later.**

When integration is wanted with one of the following data sources, then the listed conditional operational requirement applies.

- Adabas: Software AG Adabas V7.1.3 or V7.4
- Datacom: Datacom V10 or V11
- DB2: DB2 V7 (5675-DB2) or DB2 V8 (5625-DB2)
- IDMS: IDMS V15 or V16
- IMS: IMS V8 (5655-C56) or IMS V9 (5655-J38)
- Sequential: None. Sequential is supported for the supported levels of z/OS.
- VSAM:
  - CICS® access is supported for CICS Transaction Server V2.2, V2.3, or V3.1.
  - Native VSAM access is supported for the supported z/OS levels.
  - Transactional VSAM access is supported with DFSMS Transactional VSAM Services (DFSMSStvs) at the supported z/OS levels.

WebSphere Classic Replication Server for z/OS, V9.1 (5655-R53), WebSphere Classic Data Event Publisher for z/OS, V9.1 (5655-R54), and WebSphere Data Integration Classic Connector for z/OS, V9.1 (5655-R57) have a mandatory operational requirement for one of the following:

- WebSphere MQ for z/OS, V5.3.1 (5655-F10)
- WebSphere MQ for z/OS, V6.0 (5655-L82)

(A restricted use copy of WebSphere MQ for z/OS 6.0 is part of the product's deliverables.)

Data Source Support Summary

Supported data sources

Product

	WebSphere Classic Federation Server for z/OS, V9.1	WebSphere Classic Replication Server for z/OS, V9.1	WebSphere Classic Data Event Publisher for z/OS, V9.1	WebSphere Data Integration Classic Connector for z/OS, V9.1
Adabas	Software AG Adabas V7.1.3 or V7.4			
Datacom	Datacom V10 or V11	N/A	N/A	Datacom V10 or V11
DB2	DB2 V7 or V8	N/A	N/A	DB2 V7 or V8
IDMS	IDMS V15 or V16	IDMS V15 or V16	IDMS V15 or V16	IDMS V15 or V16
IMS	IMS V8 or V9	IMS V8 or V9	IMS V8 or V9	IMS V8 or V9
VSAM	CICS access is supported for CICS Transaction Server V2.2, V2.3, or V3.1.			

Native VSAM access is supported for the supported z/OS levels.

	Transactional VSAM access is supported with DFSMS	N/A	N/A	Transactional VSAM access is supported with DFSMS
	Transactional VSAM Services (DFSMSStvs) at the supported z/OS levels	N/A	N/A	Transactional VSAM Services (DFSMSStvs) at the supported z/OS levels
Sequential	Supported by z/OS	N/A	N/A	Supported by z/OS

### Customer requirements

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Customer requirements are used extensively to determine how database tools evolve.

DB2 Administration Tool for z/OS, V7.2 (5697-L90) and DB2 Object Comparison Tool for z/OS, V7.2 (5697-L40) satisfy the following requirements:

MR0119052536	MR0218033940	MR0319041258	MR0414046311
MR0414047016	MR0502023212	MR0602037114	MR0607013213
MR0612022336	MR0701035527	MR0701044524	MR0701045537
MR0825036214	MR0916044643	MR092702340	MR1104046139
MR1116011823	MR120904649	MR1210025257	MR1216021934
MR1227022248	MR1227022730	MR122702659	MR1227026518
MR1128034629			

DB2 High Performance Unload for z/OS, V3.1 (5697-N58) satisfies the following requirements:

MR0228035626	MR0726046320	MR1123023028
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IMS HP FP Utilities for z/OS, V3.1 (5655-R05) satisfies the following requirements:

MR0215051939	MR0215056724	MR0318053811	MR0426053723
MR0510043933	MR1118046027	MR1214043039	MR1214045718

IMS HP Sysgen Tools for z/OS, V2.2 (5655-P43) satisfies the following requirements:

MR0319032512	MR0406066845
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### Planning information

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**Packaging:** The programs in this announcement are distributed with the following content:

- Basic machine-readable material on tape
- Program Directory
- Proof of Entitlement (POE)
- IBM International Program License Agreement (IPLA)
- Refer to the Publications section for additional material:
  - DB2 Performance Toolkit for z/OS the SAP Edition V2.1 (5697-M32) ships with a number of CD-ROMs and other publications.
  - The WebSphere products ship with installation guides.

### Security, auditability, and control

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The announced programs use the security and auditability features of the host operating system software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

## Software Services

IBM Services has the breadth, depth, and reach to manage your services needs. You can leverage the deep technical skills of our lab-based, software services team and the business consulting, project management, and infrastructure expertise of our IBM Global Services team. Also, we extend our IBM Software Services reach through IBM Business Partners to provide an unmatched portfolio of capabilities. Together, we provide the global reach, intellectual capital, industry insight, and technology leadership to support any critical business need.

To learn more about IBM Software Services or to contact a software services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

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## Ordering information

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### Charge metric

Program name	PID number	Charge metric
DB2 Administration Tool for z/OS, V7.2	5697-L90	Value Unit
DB2 High Performance Unload for z/OS, V3.1	5697-N58	Value Unit
DB2 Object Comparison Tool for z/OS, V7.2	5697-L40	Value Unit
DB2 Performance Toolkit for z/OS the SAP Edition, V2.1	5697-M32	Value Unit
DB2 Storage Management Utility for z/OS, V1.1	5655-P09	Value Unit
IMS Audit Management Expert for z/OS, V1.1	5655-R23	Value Unit
IMS High Performance Fast Path Utilities for z/OS, V3.1	5655-R05	Value Unit
IMS High Performance Sysgen Tools for z/OS, V2.2	5655-P43	Value Unit
IMS Online Reorganization Facility for z/OS, V1.2	5655-H97	Value Unit
WebSphere Classic Federation Server for z/OS, V9.1	5655-R52	Value Unit
WebSphere Classic Replication Server for z/OS, V9.1	5655-R53	Value Unit
WebSphere Classic Data Event Publisher for z/OS, V9.1	5655-R54	Value Unit
WebSphere Data Integration Classic Connector for z/OS, V9.1	5655-R57	Value Unit

All the programs in this announcement have Value Unit-based pricing.

Program number	Program name	Value Unit Exhibit
5697-L90	DB2 Administration Tool for z/OS, V7.2	VUE007
5697-N58	DB2 High Performance Unload for z/OS, V3.1	VUE007
5697-L40	DB2 Object Comparison Tool for z/OS, V7.2	VUE007
5697-M32	DB2 Performance Toolkit for z/OS the SAP Edition, V2.1	VUE007
5655-P09	DB2 Storage Management Utility for z/OS, V1.1	VUE007
5655-R23	IMS Audit Management Expert for z/OS, V1.1	VUE007
5655-R05	IMS High Performance Fast Path Utilities for z/OS, V3.1	VUE007
5655-P43	IMS High Performance Sysgen Tools for z/OS, V2.2	VUE007
5655-H97	IMS Online Reorganization Facility for z/OS, V1.2	VUE007
5655-R52	WebSphere Classic Federation Server for z/OS, V9.1	VUE007
5655-R53	WebSphere Classic Replication Server for z/OS, V9.1	VUE007
5655-R54	WebSphere Classic Data Event Publisher for z/OS, V9.1	VUE007
5655-R57	WebSphere Data Integration Classic Connector	VUE007

for z/OS, V9.1

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

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

#### Value Unit Exhibit VUE007

	MSUs mi ni mum	MSUs maxi mum	Val ue Uni ts/MSU
Base	1	3	1
Ti er A	4	45	0. 45
Ti er B	46	175	0. 36
Ti er C	176	315	0. 27
Ti er D	316	+	0. 2

Value Units for mainframes without MSU ratings:

Hardware	Val ue Uni ts/machi ne
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL Model s	2

Ordering example:

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

If your required license capacity is 1,500 MSUs for your selected zSeries IPLA product, the applicable Value Units would be:

#### Translation from MSUs to Value Units

	MSUs	*	Val ue Uni ts/MSU	=	Val ue Uni ts
Base	3	*	1. 00	=	3. 00
Ti er A	42	*	. 45	=	18. 90
Ti er B	130	*	. 36	=	46. 80
Ti er C	140	*	. 27	=	37. 80
Ti er D	1, 185	*	. 20	=	237. 00
Total	1, 500				343. 50

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

#### Ordering z/OS through the Internet

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

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

The products in this announcement have one charge unit — Value Units.

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

**Basic license: On/Off Capacity on Demand**

The products in this announcement are eligible for On/Off Capacity on Demand (On/Off CoD) with a Temporary Use Charge calculated based on MSUs-per day usage.

The On/Off CoD ordering information for the following products has not changed. Therefore, On/Off CoD ordering information is not included for these products in this announcement.

Product name	PID
DB2 Administration Tool for z/OS, V7.2	5697-L90
DB2 Object Comparison Tool for z/OS, V7.2	5697-L40
IMS High Performance Sysgen Tools for z/OS, V2.2	5655-P43
IMS Online Reorganization Facility for z/OS, V1.2	5655-H97

The On/Off CoD ordering information for the remaining products in this announcement follows:

DB2 High Performance Unload for z/OS, V3.1  
Program PID: 5697-N58

Entitlement identifier	Description	License option / Pricing metric
S013K1P	DB2 High Perf Unload V3.1	Basic OTC, Per MSU-day TUC

Program name: DB2 Performance Toolkit for z/OS the SAP Edition, V2.1  
Program PID: 5697-M32

Entitlement identifier	Description	License option / Pricing metric
S012M3P	DB2 Performance Toolkit	Basic OTC, Per MSU-day TUC

Program name: DB2 Storage Management Utility for z/OS, V1.1  
Program PID: 5655-P09

Entitlement identifier	Description	License option / Pricing metric
S013K24	DB2 Storage Mgmt Utility	Basic OTC, Per MSU-day TUC

Program name: IMS Audit Management Expert for z/OS, V1.1  
Program PID: 5655-R23

Entitlement identifier	Description	License option / Pricing metric
S012HDX	IMS Audit Management Expert	Basic OTC, Per MSU-day TUC

Program name: IMS High Performance Fast Path Utilities for z/OS, V3.1  
Program PID: 5655-R05

Entitlement identifier	Description	License option / Pricing metric
S012HDR	IMS HP FP Utilities V3	Basic OTC, Per MSU-day TUC

Program name: WebSphere Classic Federation Server for z/OS, V9.1  
Program PID: 5655-R52

One or more of the following features must be ordered with this product.

Entitlement identifier	Description	License option / Pricing metric
S013JVN	Classic Fed Svr Adabas	Basic OTC, Per MSU-day TUC
Entitlement identifier	Description	License option / Pricing metric
S013JVR	Classic Fed Svr DB2	Basic OTC, Per MSU-day TUC
Entitlement identifier	Description	License option / Pricing metric
S013JTZ	Classic Fed Svr IDMS	Basic OTC, Per MSU-day TUC
Entitlement identifier	Description	License option / Pricing metric
S013JTV	Classic Fed Svr IMS	Basic OTC, Per MSU-day TUC
Entitlement identifier	Description	License option / Pricing metric
S013JVP	Classic Fed Svr VSAM	Basic OTC, Per MSU-day TUC
Entitlement identifier	Description	License option / Pricing metric
S013JVM	Classic Fed Svr Datacom	Basic OTC, Per MSU-day TUC

Program name: WebSphere Classic Replication Server for z/OS, V9.1  
Program PID: 5655-R53

One or more of the following features must be ordered with this product.

Entitlement identifier	Description	License option / Pricing metric
S013KKD	Classic Rep Svr Adabas	Basic OTC, Per MSU-day TUC
Entitlement identifier	Description	License option / Pricing metric
S013KKF	Classic Rep Svr IDMS	Basic OTC, Per MSU-day TUC
Entitlement identifier	Description	License option / Pricing metric
S013KKB	Classic Rep Svr IMS	Basic OTC, Per MSU-day TUC
Entitlement identifier	Description	License option / Pricing metric
S013KKC	Classic Rep Svr VSAM	Basic OTC, Per MSU-day TUC

Program name: WebSphere Classic Data Event Publisher for z/OS, V9.1  
Program PID: 5655-R54

One or more of the following features must be ordered with this product.

Entitlement identifier	Description	License option / Pricing metric
S013JW2	Classic Event Pub IMS	Basic OTC, Per MSU-day TUC
Entitlement identifier	Description	License option / Pricing metric

Entitlement identifier	Description	Pricing metric
S013JW4	Classic Event Pub Adabas	Basic OTC, Per MSU-day TUC
S013JW5	Classic Event Pub IDMS	Basic OTC, Per MSU-day TUC
S013JW3	Classic Event Pub VSAM	Basic OTC, Per MSU-day TUC

Program name: WebSphere Data Integration Classic Connector for z/OS, V9.1  
Program PID: 5655-R57

One or more of the following features must be ordered with this product.

Entitlement identifier	Description	Pricing metric
S013KK5	ClassicConnect Acc DB2	Basic OTC, Per MSU-day TUC
S013KK3	ClassicConnect Acc IDMS	Basic OTC, Per MSU-day TUC
S013KK0	ClassicConnect Acc VSAM	Basic OTC, Per MSU-day TUC
S013KK4	ClassicConnect Acc Datacom	Basic OTC, Per MSU-day TUC
S013KK7	ClassicConnect Pub IDMS	Basic OTC, Per MSU-day TUC
S013KK6	ClassicConnect Pub IMS	Basic OTC, Per MSU-day TUC
S013KK8	ClassicConnect Pub VSAM	Basic OTC, Per MSU-day TUC
S013KK2	ClassicConnect Acc Adabas	Basic OTC, Per MSU-day TUC
S013KK1	ClassicConnect Acc IMS	Basic OTC, Per MSU-day TUC

Entitlement identifier	Description	License option / Pricing metric
S013KK9	ClassicConnect Acc SEQ	Basic OTC, Per MSU-day TUC

Entitlement identifier	Description	License option / Pricing metric
S013KJZ	ClassicConnect Pub Adabas	Basic OTC, Per MSU-day TUC

All the products in this announcement use Value Unit pricing.

Translation from MSUs to value units for VUE007

	MSUs	Value Units/MSU
Base	1-3	1.00
Tier A	4-45	.45
Tier B	46-175	.36
Tier C	176-315	.27
Tier D	316+	.20

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

The ordering information for the following products has not changed. Therefore, ordering information is not included for these products in this announcement.

Product name	PID
DB2 Administration Tool for z/OS, V7.2	5697-L90
DB2 Object Comparison Tool for z/OS, V7.2	5697-L40
IMS High Performance Sysgen Tools for z/OS, V2.2	5655-P43
IMS Online Reorganization Facility for z/OS, V1.2	5655-H97
Subscription and Support for DB2 Administration Tool	5655-E90
Subscription and Support for DB2 High Performance Unload	5655-E89
Subscription and Support for DB2 Object Comparison Tool	5655-E40
Subscription and Support for DB2 Performance Toolkit for z/OS the SAP Edition	5697-N32
Subscription and Support for IMS High Performance Fast Path Utilities for z/OS	5655-E36
Subscription and Support for IMS High Performance Sysgen Tools for z/OS	5655-F42
Subscription and Support for IMS Online Reorganization Facility for z/OS	5655-H98

The ordering information for the other products in this announcement follows:

Program name: DB2 High Performance Unload for z/OS, V3.1  
 Program PID: 5697-N58

Entitlement identifier	Description	License option / Pricing metric
S013K1P	DB2 High Performance Unload V3	Basic OTC, Value Units

Orderable Supply ID	Language	Distribution medium
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S013K1R	US English	3480 Tape Cartridge
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Program name: DB2 Performance Toolkit for z/OS the SAP Edition, V2.1  
 Program PID: 5697-M32

The two orderable supplies are included with this product.

Entitlement identifier	Description	License option / Pricing metric
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S012M3P DB2 Performance Toolkit Basic OTC, Value Units

Orderable Supply ID Language Distribution medium

S013PWK US English 3480 Tape Cartridge

Orderable Supply ID Language Distribution medium

S012JR3 US English 3480 Tape Cartridge

Program name: DB2 Storage Management Utility for z/OS, V1.1  
Program PID: 5655-P09

Entitlement identifier Description License option / Pricing metric

S013K24 DB2 Storage Mgmt Utility Basic OTC, Value Units Trade-up

Orderable Supply ID Language Distribution medium

S013K25 US English 3480 Tape Cartridge

Subscription and Support PID: 5655-R09

Entitlement identifier Description License options/Pricing metrics

S013K7V DB2 Storage Mgmt Utility S&S SW Subscription and Support AS  
Decline SW S&S No Charge  
SW S&S Registration No Charge

Orderable Supply ID Language Distribution medium

S013K7W English Hardcopy publication

Program name: IMS Audit Management Expert for z/OS, V1.1  
Program PID: 5655-R23

Entitlement identifier Description License option / Pricing metric

S012HDX IMS Audit Management Expert Basic OTC, Value Units

Orderable Supply ID Language Distribution medium

S012HDZ US English 3480 Tape Cartridge

Subscription and Support PID: 5655-R24

Entitlement identifier Description License options/Pricing metrics

S012HF3 IMS Audit Mgmt Expert S&S SW Subscription and Support AS  
Decline SW S&S No Charge  
SW S&S Registration No Charge

Orderable Supply ID Language Distribution medium

S012HF4 English Hardcopy publication

Program name: IMS High Performance Fast Path Utilities for z/OS,  
V3.1

Program PID: 5655-R05

Entitlement identifier	Description	License option / Pricing metric
S012HDR	IMS HP FP Utilities V3	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S012HDS	US English	3480 Tape Cartridge

Program name: WebSphere Classic Federation Server for z/OS, V9.1  
Program PID: 5655-R52

One of the following features must be ordered with this product.

Entitlement identifier	Description	License option / Pricing metric
S013JVN	Classic Fed Svr Adabas	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013JVG	US English	3480 Tape Cartridge

Entitlement identifier	Description	License option / Pricing metric
S013JVR	Classic Fed Svr DB2	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013JVL	US English	3480 Tape Cartridge

Entitlement identifier	Description	License option / Pricing metric
S013JTZ	Classic Fed Svr IDMS	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013JVB	US English	3480 Tape Cartridge

Entitlement identifier	Description	License option / Pricing metric
S013JTV	Classic Fed Svr IMS	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013JV8	US English	3480 Tape Cartridge

Entitlement identifier	Description	License option / Pricing metric
S013JVP	Classic Fed Svr VSAM	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013JVJ	US English	3480 Tape Cartridge

Entitlement identifier	Description	License option / Pricing metric
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S013JVM      Classic Fed Svr Datacom      Basic OTC, Value Units  
 Orderable Supply ID      Language      Distribution medium  
 S013JVD                      US English      3480 Tape Cartridge

Subscription and Support PID: 5655-S03

Order the S&S features that correspond to the features of 5655-R52 for which extended service is desired.

Entitlement identifier	Description	License options/Pricing metrics
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S013KXX	Classic Fed Svr Adabas S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
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Orderable Supply ID	Language	Distribution medium
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S013KKV	English	Hardcopy publication
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Entitlement identifier	Description	License options/Pricing metrics
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S013KXW	Classic Fed Svr DB2 S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
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Orderable Supply ID	Language	Distribution medium
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S013KXS	English	Hardcopy publication
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Entitlement identifier	Description	License options/Pricing metrics
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S013KZN	Classic Fed Svr IDMS S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
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Orderable Supply ID	Language	Distribution medium
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S013KXV	English	Hardcopy publication
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Entitlement identifier	Description	License options/Pricing metrics
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S013KZF	Classic Fed Svr IMS S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
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Orderable Supply ID	Language	Distribution medium
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S013KZK	English	Hardcopy publication
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Entitlement identifier	Description	License options/Pricing metrics
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S013KZT	Classic Fed Svr VSAM S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
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Orderable Supply ID	Language	Distribution medium
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S013KZR	English	Hardcopy publication
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Entitlement identifier	Description	License options/Pricing metrics
S013KZL	Classic Fed Svr Datacom S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

Orderable Supply ID	Language	Distribution medium
S013KKR	English	Hardcopy publication

Program name: WebSphere Classic Replication Server for z/OS, V9.1  
Program PID: 5655-R53

One or more of the following features must be ordered with this product.

Entitlement identifier	Description	License option / Pricing metric
S013KKD	Classic Rep Svr Adabas	Basic OTC, Value Units

Orderable Supply ID	Language	Distribution medium
S013JW7	US English	3480 Tape Cartridge

Entitlement identifier	Description	License option / Pricing metric
S013KKF	Classic Rep Svr IDMS	Basic OTC, Value Units

Orderable Supply ID	Language	Distribution medium
S013JWF	US English	3480 Tape Cartridge

Entitlement identifier	Description	License option / Pricing metric
S013KKB	Classic Rep Svr IMS	Basic OTC, Value Units

Orderable Supply ID	Language	Distribution medium
S013JWC	US English	3480 Tape Cartridge

Entitlement identifier	Description	License option / Pricing metric
S013KKC	Classic Rep Svr VSAM	Basic OTC, Value Units

Orderable Supply ID	Language	Distribution medium
S013JW9	US English	3480 Tape Cartridge

Subscription and Support PID: 5655-S04

Order the S&S features that correspond to the features 5655-R53 for which extended service is desired.

Entitlement identifier	Description	License options/Pricing metrics
S013KZ8	Classic Rep Svr Adabas S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

Orderable Supply ID	Language	Distribution medium
S013KZ6	English	Hardcopy publication
Entitlement identifier	Description	License options/Pricing metrics
S013KZ9	Classic Rep Svr IDMS S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013L0D	English	Hardcopy publication
Entitlement identifier	Description	License options/Pricing metrics
S013KZ2	Classic Rep Svr IMS S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013L08	English	Hardcopy publication
Entitlement identifier	Description	License options/Pricing metrics
S013KZ7	Classic Rep Svr VSAM S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013L0B	English	Hardcopy publication

Program name: WebSphere Classic Data Event Publisher for z/OS, V9.1  
Program PID: 5655-R54

One or more of the following features must be ordered with this product.

Entitlement identifier	Description	License option / Pricing metric
S013JW2	Classic Event Pub IMS	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013JVT	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric
S013JW4	Classic Event Pub Adabas	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013JVZ	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric

S013JW5	Classic Event Pub IDMS	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013JW1	US English	3480 Tape Cartridge

Entitlement identifier	Description	License option / Pricing metric
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S013JW3	Classic Event Pub VSAM	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013JWV	US English	3480 Tape Cartridge

Subscription and Support PID: 5655-S05

Order the S&S features that correspond to the features 5655-R54 for which extended service is desired.

Entitlement identifier	Description	License options/Pricing metrics
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S013LCJ	Classic Event Pub IMS S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
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Orderable Supply ID	Language	Distribution medium
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S013LCW	English	Hardcopy publication
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Entitlement identifier	Description	License options/Pricing metrics
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S013LCK	Classic Event Pub Adabas S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
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Orderable Supply ID	Language	Distribution medium
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S013LCT	English	Hardcopy publication
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Entitlement identifier	Description	License options/Pricing metrics
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S013LCL	Classic Event Pub IDMS S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
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Orderable Supply ID	Language	Distribution medium
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S013LD1	English	Hardcopy publication
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Entitlement identifier	Description	License options/Pricing Metrics
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S013LCM	Classic Event Pub VSAM S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
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Orderable Supply ID	Language	Distribution medium
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S013LCZ	English	Hardcopy publication
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Program name: WebSphere Data Integration Classic Connector for  
z/OS, V9.1

Program PID: 5655-R57

One or more of the following features must be ordered with this product.

Entitlement identifier	Description	License option / Pricing metric
S013KK5	ClassicConnect Acc DB2	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013KJ9	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric
S013KK3	ClassicConnect Acc IDMS	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013KJ5	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric
S013KK0	ClassicConnect Acc VSAM	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013KJS	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric
S013KK4	ClassicConnect Acc Datacom	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013KJK	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric
S013KK7	ClassicConnect Pub IDMS	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013KJ7	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric
S013KK6	ClassicConnect Pub IMS	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013KJP	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric

S013KK8	ClassicConnect Pub VSAM	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013KJV	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric
S013KK2	ClassicConnect Acc Adabas	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013KJM	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric
S013KK1	ClassicConnect Acc IMS	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013KJC	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric
S013KK9	ClassicConnect Acc SEQ	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013KJF	US English	3480 Tape Cartridge
Entitlement identifier	Description	License option / Pricing metric
S013KJZ	ClassicConnect Pub Adabas	Basic OTC, Value Units
Orderable Supply ID	Language	Distribution medium
S013KJH	US English	3480 Tape Cartridge

Subscription and Support PID: 5655-S08

Order the S&S features that correspond to the features of 5655-R57 for which extended service is desired.

Entitlement identifier	Feature description	License options/Pricing metrics
S013KPL	ClassicConnect AccDatacom S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013KMB	English	Hardcopy publication
Entitlement identifier	Feature description	License options/Pricing metrics
S013KPD	ClassicConnect Acc IDMS S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge



Orderable Supply ID	Language	Distribution medium
S013KLS	English	Hardcopy publication
Entitlement identifier	Feature description	License options/Pricing metrics
S013KL8	ClassicConnect Acc DB2 S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013KLZ	English	Hardcopy publication
Entitlement identifier	Feature description	License options/Pricing metrics
S013KLV	ClassicConnect Acc IMS S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013KP8	English	Hardcopy publication
Entitlement identifier	Feature description	License options/Pricing metrics
S013KPS	ClassicConnect AccAdabas S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013KLM	English	Hardcopy publication
Entitlement identifier	Feature description	License options/Pricing metrics
S013KPC	ClassicConnect Acc VSAM S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013KPH	English	Hardcopy publication
Entitlement identifier	Feature description	License options/Pricing metrics
S013KMO	ClassicConnect PubAdabas S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013KPB	English	Hardcopy publication
Entitlement identifier	Feature description	License options/Pricing metrics
S013KLT	ClassicConnect Pub IDMS S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge

Orderable Supply ID	Language	Distribution medium
S013KM5	English	Hardcopy publication
Entitlement identifier	Feature description	License options/Pricing metrics
S013KPT	ClassicConnect Pub IMS S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013KPR	English	Hardcopy publication
Entitlement identifier	Feature description	License options/Pricing metrics
S013KP1	ClassicConnect Pub VSAM S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013LJ0	English	Hardcopy publication
Entitlement identifier	Feature description	License options/Pricing metrics
S013KM7	ClassicConnect Acc SEQ S&S	SW Subscription and Support AS Decline SW S&S No Charge SW S&S Registration No Charge
Orderable Supply ID	Language	Distribution medium
S013KM2	English	Hardcopy publication

### Subscription and Support

To receive voice technical support via telephone during normal business hours and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced previously and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Support (IAAS). This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone during normal business hours.
- Entitles customers to future releases and versions at no additional charge. Note that the customer is not entitled to new products.

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

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

### Customized Offerings

Product media is shipped only via Customized Offerings (for example, CBPDO, ServerPac,

SystemPac®). Noncustomized items (CDs, diskettes, source media, media kits) will continue to be shipped via the stand-alone product.

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## Terms and conditions

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**Agreement:** IBM International Program License Agreement and License Information document. POEs are required for all authorized use.

These products are licensed under the IBM Program License Agreement (IPLA), and the associated Agreement for Acquisition of Software Maintenance, which provides for support with ongoing access to releases and versions of the program. These programs have a one-time license charge for use of the program and an annual renewable charge for the enhanced support that includes telephone assistance (voice support for defects during normal business hours) as well as access to updates, releases, and versions of the program as long as support is in effect.

S/390 and zSeries IBM Operational Support Services — SoftwareXcel is an option for those customers who want added services.

**Limited warranty:** Yes

**Warranty:** This program includes a warranty for one year from acquisition from IBM or an authorized IBM Business Partner. For one year from acquisition of the program, this warranty provides the customer with access to databases containing program information and FAQs, including any known fixes to defects, which the customer can download or otherwise obtain and install.

**Program support:** Enhanced Support, called Subscription and Support, includes telephone assistance (voice support for defects during normal business hours) as well as access to updates, releases, and versions of the program as long as support is in effect. The customer will be notified of discontinuance of support with 12 months' notice.

**Money-back guarantee:** If for any reason you are dissatisfied with the program and you are the original licensee, return it within 30 days from the invoice date to the party (either IBM or its reseller) from whom you acquired it for a refund. For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by the customer.

**Copy and use on home/portable computer:** No

**Volume orders (IVO):** No

**Passport Advantage® applies:** No

**Software Maintenance applies:** No

For operating system software, the revised IBM Operational Support Services — SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the newly announced Software Maintenance offering. This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised SoftwareXcel offering, visit

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

For additional information on the revised IBM Operational Support Services, refer to Services Announcement 601-023, dated July 10, 2001.

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

**iSeries™ Software Maintenance applies:** No

**Variable charges apply:** No

**Educational allowance available:** Yes, 15% education allowance applies to qualified education institution customers.

Replaced Program

Replacement Program

Program number	Program name	Program number	Program name
5685-093	IMS System Utilities/ Database Tools V2 (DEDB Unload/Load Feature)	5655-R05	IMS High Performance Fast Path Utilities for z/OS, V3.1
5685-093	IMS System Utilities/ Database Tools V2 (DEDB Pointer Checker Feature)	5655-R05	IMS High Performance Fast Path Utilities for z/OS, V3.1
5685-093	IMS System Utilities/ Database Tools V2 (DEDB Tuning Aid Feature)	5655-R05	IMS High Performance Fast Path Utilities for z/OS, V3.1
5668-856	IMS/VS System Utilities/ Data Base Tools V1 (DEDB Unload/Reload Feature)	5655-R05	IMS High Performance Fast Path Utilities for z/OS, V3.1
5668-856	IMS/VS System Utilities/ Data Base Tools V1 (DEDB Pointer Checker Feature)	5655-R05	IMS High Performance Fast Path Utilities for z/OS, V3.1
5668-856	IMS/VS System Utilities/ Data Base Tools V1 (DEDB Tuning Aid Feature)	5655-R05	IMS High Performance Fast Path Utilities for z/OS, V3.1

### Sub-capacity terms and conditions

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

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

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

Program number	Program name	Terms	Parents, if applicable
5697-L90	DB2 Administration Tool for z/OS, V7.2	Reference-based	DB2 V7 (5675-DB2) or DB2 V8 (5625-DB2) or DB2 V9 (5635-DB2)
5697-N58	DB2 High Performance Unload for z/OS, V3.1	Reference-based	DB2 V7 (5675-DB2) or DB2 V8 (5625-DB2) or DB2 V9 (5635-DB2)
5697-L40	DB2 Object Comparison Tool for z/OS, V7.2	Reference-based	DB2 V7 (5675-DB2) or DB2 V8 (5625-DB2) or DB2 V9 (5635-DB2)
5697-M32	DB2 Performance Toolkit for z/OS the SAP Edition, V2.1	Full machine-based	N/A
5655-P09	DB2 Storage Management Utility for z/OS, V1.1	Reference-based	DB2 V7 (5675-DB2) or DB2 V8 (5625-DB2) or DB2 V9 (5635-DB2)
5655-R23	IMS Audit Management Expert for z/OS, V1.1	Reference-based	IMS V8 (5655-C56) or IMS V9 (5655-J38)

5655-R05	IMS High Performance Fast Path Utilities for z/OS, V3.1	Reference-based	IMS V8 (5655-C56) or IMS V9 (5655-J38)
5655-P43	IMS High Performance Sysgen Tools for z/OS, V2.2	Reference-based	IMS V8 (5655-C56) or IMS V9 (5655-J38)
5655-H97	IMS Online Reorganization Facility for z/OS, V1.2	Reference-based	IMS V8 (5655-C56) or IMS V9 (5655-J38)
5655-R52	WebSphere Classic Federation Server for z/OS, V9.1	z/OS-based	z/OS V1.6 (5694-A01) or later
5655-R53	WebSphere Classic Replication Server for z/OS, V9.1	z/OS-based	z/OS V1.6 (5694-A01) or later
5655-R54	WebSphere Classic Data Event Publisher for z/OS, V9.1	z/OS-based	z/OS V1.6 (5694-A01) or later
5655-R57	WebSphere Classic Data Integration Classic Connector for z/OS, V9.1	z/OS-based	z/OS V1.6 (5694-A01) or later

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

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

For more information on mainframe MSU rated capacities, visit

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

**Reference-based:** The required license capacity of a zSeries IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the "parent" program.

**Sub-capacity mainframes:** In cases where sub-capacity is applicable, the following terms apply:

**Execution-based:** The required capacity of a zSeries IPLA sub-capacity program with these terms equals the capacity of the LPARs where the zSeries IPLA program executes.

**z/OS-based:** The required license capacity of a zSeries IPLA program with these terms equals the license capacity of z/OS (and z/OS.e) on the machines where the zSeries IPLA program executes.

**Reference-based:** The required license capacity of a zSeries IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the "parent" program.

**Full machine-based:** The required license capacity of a zSeries IPLA program with full machine-based terms equals the MSU rated capacity of the machines where the zSeries IPLA program executes.

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

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

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

#### **Additional information for products with reference-based terms**

zSeries IPLA sub-capacity programs with reference-based terms adds value to the parent

program across the environment, regardless of where in the environment the zSeries IPLA program executes.

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

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

1. That meets the criteria defined in Hardware Announcement 198-001, dated January 13, 1998
2. Where MLC pricing is aggregated across the Sysplex

**Sub-capacity eligibility:** To be eligible for sub-capacity charging on select zSeries IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be zSeries (or equivalent). On that machine:

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

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

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

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement — Attachment for IBM System z Workload License Charges (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement — Attachment for EWLC, TWLC, zELC, and z/OS.e License Charges (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract — Amendment for IBM System z9™ and eServer zSeries Programs Sub-Capacity Pricing (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous zSeries IPLA sub-capacity terms and conditions.

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

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Sub-capacity utilization is determined based on the utilization of a sub-capacity eligible reference product and machine.

### **On/Off Capacity on Demand**

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

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## **Prices**

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