



IBM DB2 and IMS database tools enhanced to help better manage your database environments

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At a glance

Enhanced DB2® and IMS™ tools deliver:

- Utilities management
 - IBM® DB2 Accessories Suite for z/OS®, V2.2 (5697-Q02)
 - IBM DB2 Automation Toolkit for z/OS the SAP Edition, V2.2 (5655-W74)
- Recovery management
 - IBM DB2 Recovery Expert for z/OS, V3.1 (5655-W78)
- Performance management
 - IBM DB2 Buffer Pool Analyzer for z/OS, V5.1.1 (5655-W35)
 - IBM Tivoli® OMEGAMON® XE for DB2 Performance Expert on z/OS, V5.1.1 (5655-W37)
 - IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1 (5655-W38)
 - IBM IMS Performance Analyzer for z/OS, V4.3 (5655-R03)
 - IBM IMS Performance Solution Pack for z/OS, V1.2 (5655-S42)
 - IBM IMS Problem Investigator for z/OS, V2.3 (5655-R02)
- Database administration
 - IBM DB2 QMF™ Classic Edition Value Unit Edition, V10.1 (5697-P31), a feature of IBM DB2 10 for z/OS VUE
 - IBM IMS Configuration Manager for z/OS, V2.1 (5655-WR2)
- Application management
 - IBM IMS Connect Extensions for z/OS, V2.3 (5655-S56)

Overview

Enhanced tools help you use and manage your IBM DB2 and IBM IMS environments:

- IBM DB2 Accessories Suite for z/OS, V2.2 (5697-Q02) consists of three features, each bundling components designed to enhance your use of DB2 for z/OS. The three features are IBM DB2 Accessories Suite V9, IBM DB2 Accessories Suite V10, and new to this release, IBM SPSS® Modeler Server Scoring Adapter for DB2 on z/OS. The IBM DB2 Accessories Suite V9 and IBM DB2 Accessories Suite V10 features contain continued support for spatial data and Unicode and internationalization support for IBM Text Search Server, the addition of IBM Data Studio V3.1.1, and updates for IBM Text Search for DB2 for z/OS. Additionally, the IBM DB2 Accessories Suite V10 feature includes the IBM

Installable Information Management Software for z/OS Solutions Information Center.

- IBM DB2 Recovery Expert for z/OS, V3.1 (5655-W78) includes many new features that enhance an already powerful, cost-effective recovery solution. These new features focus on making it even easier to protect and recover mission-critical data when time is of the essence:
 - Streamlined customization using IBM Tools Customizer for z/OS
 - Extended recovery capabilities using the enhanced ISPF interface
 - Easily distributable access to extended recovery capabilities using the completely redesigned browser-based client interface
 - Simplified recovery process for dropped objects using the DB2 log
- IBM DB2 Buffer Pool Analyzer for z/OS, V5.1.1 (5655-W35) can help optimize database performance by helping buffer pools function at high efficiency. DB2 Buffer Pool Analyzer makes it easier to tune your database and substantially boost its capacity, speed, and reliability, supporting your efforts to succeed in the information economy.
- IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1 (5655-W37) includes an end-to-end response time measurement capability, materializing DB2 for z/OS SQL metrics, making it IBM's most comprehensive DB2 application performance assessment tool. Use OMEGAMON to evaluate the efficiency of, and optimize performance of, your DB2 for z/OS database across your heterogeneous application environment. It offers all of the capabilities of IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, including comprehensive batch reports and the IBM DB2 Buffer Pool Analyzer for z/OS in addition to its own unique capabilities. Also, as part of the IBM Tivoli OMEGAMON family of Performance Monitors for key IBM System z® environments, OMEGAMON XE for DB2 Performance Expert introduces the enhanced 3270 user interface with this release. This new user interface improves the ability of DBAs and other technical professionals to monitor, analyze, and optimize the performance of DB2 databases and DB2 on z/OS applications online in real time.
- IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1 (5655-W38) helps you resolve critical performance issues. It enables monitoring, analysis, and optimization of the performance of DB2 for z/OS in real-time displays, as well as in batch reports. Like OMEGAMON XE for DB2 Performance Expert, OMEGAMON XE for DB2 Performance Monitor introduces the enhanced 3270 user interface with this release.
- IBM DB2 Automation Toolkit for z/OS the SAP Edition, V2.2.0 (5655-W74) is a utilities management tool that advances the goal of enterprise autonomic computing and offers enhancements to ERP environments. IBM DB2 Automation Toolkit for z/OS the SAP Edition, V2.2 offers functionality equivalent to IBM DB2 Automation Tool for z/OS, V4.1. For further information, refer to Software Announcement [AP11-0368](#), dated October 11, 2011.
- IBM DB2 QMF Classic Edition Value Unit Edition, V10.1, a feature of DB2 10 for z/OS Value Unit Edition (5697-P31), delivers a one-time-charge metric for eligible workloads (as defined) running in System z New Application License Charge (zNALC) LPARs. QMF Classic Edition VUE is an optional for-charge feature of DB2 10 for z/OS Value Unit Edition, based on QMF 10 Classic Edition.

DB2 QMF 10 Classic Edition further builds upon the strength of DB2 QMF 9 Classic Edition.

For further information, refer to Software Announcement [AP10-0355](#), dated October 19, 2010.

DB2 QMF Classic Edition VUE V10.1 terms limit its use to support DB2 Value Unit Edition V10 eligible workloads. Use of DB2 QMF Classic Edition VUE V10.1 is authorized only in conjunction with a valid licensed IBM DB2 10 for z/OS Value Unit Edition program, and when used in a System z New Application License Charge (zNALC) LPAR where a validly licensed DB2 for z/OS VUE has been qualified and approved through the zNALC qualification process.

For further information, refer to Software Announcement [AP10-0356](#), dated October 19, 2010.

For more information on zNALC, visit

<http://www-03.ibm.com/systems/z/resources/swprice/mlc/znalc.html>

- IBM IMS Configuration Manager for z/OS, V2.1 (5655-WR2) is a tool that provides source control for dynamic resource definition (DRD) resources and allows you to manage IMS parameters. The product provides a seamless transition from MODBLKs to DRD and helps you leverage all the advantages of managing resource definitions dynamically. IMS Configuration Manager supports your entire application development and maintenance lifecycle. For your development environment, it can help you make ad hoc changes to IMS definitions quick and straightforward. For your production environment, it can bundle and track related changes, and provides automated rollback.
- IBM IMS Connect Extensions for z/OS, V2.3 (5655-S56) is a tool that enhances the manageability of TCP/IP access to IMS through IMS Connect, an integrated function of IMS.
- IBM IMS Performance Analyzer for z/OS, V4.3 (5655-R03) provides comprehensive transaction performance and system resource usage reporting for your Information Management System Database (IMS DB) and Transaction Manager (IMS TM) systems. This database management tool provides a wide variety of performance, usage, and availability reports.
- IBM IMS Performance Solution Pack for z/OS, V1.2 (5655-S42) delivers a more affordable, comprehensive portfolio of IBM database performance management tools. The product combines the features and functions of IMS Connect Extensions for z/OS, IMS Performance Analyzer for z/OS, and IMS Problem Investigator for z/OS. The three products are complementary, making the end-to-end analysis of IMS transactions faster and more easy, supporting improved productivity for problem analysts, improved IMS application performance, more efficient IMS resource utilization, and higher system availability.
- IBM IMS Problem Investigator for z/OS, V2.3 (5655-R02), a powerful problem analysis aid for IMS DB and TM systems, helps make identifying and resolving problems faster and easier.

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

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

Key prerequisites

Refer to the [Hardware requirements](#) and [Software requirements](#) sections for key prerequisites.

Planned availability date

- May 11, 2012:
 - IBM DB2 QMF Classic Edition Value Unit Edition, V10.1.0, a feature of IBM DB2 10 for z/OS VUE
- May 25, 2012:
 - IBM IMS Configuration Manager for z/OS, V2.1.0
 - IBM IMS Connect Extensions for z/OS, V2.3.0
 - IBM IMS Performance Analyzer, V4.3.0
 - IBM IMS Problem Investigator for z/OS, V2.3.0
- June 15, 2012:
 - IBM DB2 Accessories Suite for z/OS, V2.2.0
 - IBM DB2 Recovery Expert for z/OS, V3.1.0
 - IBM DB2 Buffer Pool Analyzer for z/OS, V5.1.1
 - IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1
 - IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1

- IBM DB2 Automation Toolkit for z/OS the SAP Edition, V2.2.0
- IBM IMS Performance Solution Pack for z/OS, V1.2.0

Description

IBM DB2 Accessories Suite for z/OS, V2.2 (5697-Q02) consists of three features, each bundling components designed to enhance your use of DB2 for z/OS. Component changes in this release include:

- IBM SPSS Modeler Server Scoring Adapter for DB2 on z/OS
- IBM Data Studio V3.1.1
- IBM Text Search for DB2 for z/OS, which replaces IBM Omnifind Text Search Server for DB2 for z/OS
- IBM Installable Information Management Software for z/OS Solutions Information Center

IBM SPSS Modeler Server Scoring Adapter for DB2 on z/OS enables customers to score predictive models built by IBM SPSS Modeler directly within a specific OLTP transaction that is running on DB2 for z/OS. This greatly enhances the performance and deployment of predictive analytics within these environments.

IBM Data Studio V3.1.1 provides health monitoring, single query tuning, and application development tools for DB2 for z/OS. The Data Studio development capabilities include:

- Java™ and native stored procedure development, deployment, and debugging
- Enhanced Java development to reinforce good SQL coding performance practices during development
- Functionality to make it easier to use static SQL for existing Java, CLI, or, NET applications, thereby providing potentially better performance and better security
- When combined with InfoSphere® Optim™ pureQuery Runtime for z/OS, V3.1 and IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1, trace problematic queries from monitoring to line of code

The Data Studio query tuning features include:

- Ability to access plan graphs for visual diagnosis of problematic queries
- Single query stats advisor
- Export of diagnostic information to IBM service
- Ability to capture SQL for tuning from sources such as dynamic statement cache, DB2 catalog, IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1; DB2 Path Checker for z/OS, V4.1; and the DB2 Query Monitor V3.1

Data Studio V3.1.1 offers the following enhancements for stored procedure development:

- Configuration checker for debugger setup
- Tighter integration with Optim Query Workload Tuner
- Test case generator for Stored Procedures, UDFs, and packages

The Data Studio web console now includes custom alerts and additional control over scheduled jobs. Installation has been simplified by combining the Data Studio full client and InfoSphere Optim Query Workload Tuner install. A simple activation key is all that is required to enable InfoSphere Optim Query Workload Tuner.

Data Studio provides the foundation for development, tuning, and administration. For even more performance and tuning capability, use it in conjunction with enhanced capabilities found in InfoSphere Optim pureQuery Runtime for z/OS and InfoSphere Optim Query Workload Tuner for DB2 for z/OS. Based on Eclipse, Data

Studio naturally works well with Rational® Developer for z to provide even more productivity to the DBA and developer.

With the announcement of the removal of the DB2 Management Clients feature from IBM DB2 UDB for z/OS V8 and IBM DB2 9 for z/OS, Data Studio is the strategic replacement of the Control Center for DB2 for z/OS. Data Studio V3.1 also replaces the Optimization Service Center component as stated in the Software Announcement [AP10-0014](#), dated February 09, 2010 (DB2 10 for z/OS).

IBM Text Search for DB2 for z/OS offers excellent query performance and scalability by combining optimization and innovative search technologies. It provides new features such as fuzzy search, special character search, and introduces the availability of Text Search servers on the new platforms:

- 64-bit Red Hat Enterprise Linux™
- 64-bit SUSE Linux Enterprise 10
- 64-bit Windows™ Server 2008

IBM Installable Information Management Software for z/OS Solutions Information Center provides a locally installable IBM Eclipse Help System framework and some topics that explain how to install, use, and obtain updates for this information center. You can install this information center on one or more Windows workstations or on an intranet server so that many users in your organization can rely on ready access to the product information for DB2 for z/OS. This capability may be very important to organizations that limit or prohibit direct access to the web. Even users who normally have web access can benefit from access to a locally installed information center; they can access the information anywhere they are (while traveling, for example), and they should benefit from faster search performance. The actual product information is shipped on the DB2 10 for z/OS Licensed Library Collection (LKST-7390) or can be downloaded using the update wizard in the installable information center. Alternatively, you can download the information center framework from the web.

IBM DB2 Recovery Expert for z/OS, V3.1 (5655-W78) provides a simple, self-managing recovery solution that enables database recovery operations with minimal disruption. DB2 Recovery Expert for z/OS enables intelligent analysis of altered, incorrect, or missing database assets, including table spaces, tables, indexes, and data. It automates the process of rebuilding these assets to a specified point in time, often without taking the database or the business operations offline.

DB2 Recovery Expert supplies a high availability solution for companies concerned with 24 x 7 operations. By taking advantage of the latest storage system replication features, DB2 Recovery Expert can perform system-level backups quickly with little or no impact on running applications. Valuable host CPU and I/O time is saved by using the storage processor to make the copy instead of z/OS.

DB2 Recovery Expert:

- Provides backup features that exploit sophisticated storage processor capabilities enabling:
 - High application availability while data is quickly backed up to a consistent copy of production data
 - Reduction of CPU and I/O costs by using the storage processor to copy the data instead of z/OS
 - Reduced database administrator time and effort while executing fast replication processing
 - Automated validation at the time of backup to confirm the recovery of all objects or the complete DB2 subsystem
- Provides automated recovery features that:
 - Save valuable time when recovering entire DB2 subsystems from system backups using fast replication

- Significantly reduce downtime and the associated costs of this downtime when recovering database objects or groups of objects to a specific point in time from fast replication backups
- Simplify DB2 subsystem disaster recovery and restart
- Provides an "intelligent recovery manager" that significantly reduces recovery time and effort by providing the information users need to quickly decide upon the best recovery point and the best recovery method for their use. The intelligent recovery manager can help users to:
 - Easily recover dropped objects, including recovering data to a point in time before the drop.
 - Reduce manual efforts by identifying recovery points. The recovery manager analyzes the DB2 log to find quiet times or points of consistency for single or groups of objects that can be used for recovery points.
 - Generate SQL-based recoveries that can roll-forward or back-out changes to individual tables or groups of objects, a recovery process that is unique among IBM DB2 recovery tools.
 - Simplify the process of recovering an object or application set of objects to a prior version, even if the object's DDL has changed.
 - Quickly choose the most appropriate and cost-efficient method of recovery by analyzing all recovery assets and presenting several recovery "plans" or methods with an estimated cost for each method.

DB2 Recovery Expert V3.1 includes the following enhancements:

- Streamlined product customization using IBM Tools Customizer for z/OS, a product that provides a single interface and process for customizing products that belong to the IBM DB2 Tools family.
- Extended the recovery capabilities of the V2.2 GUI to the ISPF interface for ease of use. The enhanced ISPF interface now includes dropped object recovery, versioned object recovery, SQL undo/redo recovery, and log analysis functionality.
- Eliminated the need to separately install a local version of the graphical interface for each user by redesigning it to run within a web browser.
- Simplified the recovery process for dropped objects, in both the ISPF and browser client, by adding the ability to read DB2 log records when re-creating the object's image to a point in time, eliminating the need to update the schema level repository.
- Automated the process to restore object authorizations when recovering dropped objects.
- Automated the process of binding plans and packages when recovering objects and dropped objects.
- Expanded the types of objects that can be recovered to include indexes, views, synonyms, aliases, data types, triggers, functions, stored procedures, sequences, and roles.
- Help for administrators to better plan when they create copies by adding the ability to update Real-Time Statistics (RTS) when creating fast-replication image copies.
- Added the ability to generate DDL for an object or group of objects as they currently exist or as they existed at some historical point in time.
- Seamlessly use the latest technology with IPv6, now a supported communication protocol between Recovery Expert's server, agent, and user interface tiers.

IBM DB2 Buffer Pool Analyzer for z/OS, V5.1.1 (5655-W35) makes it easy to tune your database and substantially boost its capacity, speed, and reliability, which can help you succeed in the information economy.

IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1 (5655-W37) and **IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1 (5655-W38)** provide enterprise-wide tools integration capabilities to create cross-platform management of mission-critical relational databases.

Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS (OM PE) gives you a single, comprehensive tool to help assess the efficiency and optimize performance of your DB2 on z/OS environment. It combines the sophisticated reporting, monitoring, and buffer pool analysis features of Tivoli OMEGAMON XE for DB2 Performance Monitor (OM PM) and DB2 Buffer Pool Analyzer. It also adds expert database analysis functions to help you maximize performance and enhance productivity.

Version 5.1.1 includes all the functions of the prior release and continues collector and user interface consolidation along with improvements for usability, scalability, reliability, and serviceability. Key functionality in this release of both OM PE and OM PM includes:

- IBM Tivoli introduces a significant update to IBM Tivoli OMEGAMON Performance Monitors for key System z environments. OM PE and OM PM Version 5.1.1 are built upon ITM 6.2.3, which includes:
 - Infrastructure support for the new enhanced 3270 end user interface shipped with this version 5.1.1, providing a flexible and customizable user interface with a common user interface for command and control conditions. It also gives users the ability to effectively move between different z/OS components even in a Sysplex.
 - Self-describing agents which ease the installation and management of service updates to Tivoli Enterprise Portal applications.
 - Complete Parmgen support which is the alternative to the Installation and Customization Assistance Tool (ICAT).
- Support of IBM DB2 Analytics Accelerator V2 performance metrics.
- Support of the new Optim Performance Manager V5.1.1 repository server used for the end-to-end SQL monitoring (Extended Insight).
- ATF (Application Trace Facility) functions will now show host variables.
- Further extensions to the Classic data-sharing group support showing the DB2 System parameters in a side-by-side table.
- MIN/AVG/MAX DBAT (distributed access thread) data reported by Statistics Interval.
- Continuing support of the latest DB2 10.1 DCRs, like enhanced virtual storage IFCID 225 with real storage information.

The following enhancements were added via the service stream to each of the products in Version 5.1.0 and are included in each Version 5.1.1 offering:

- Support for the latest DCRs from IBM DB2 for z/OS, V10.1 (5605-DB2) and IBM DB2 for z/OS Value Unit Edition, V10.1 (5697-P31)
- zIIP off-load for Near-Term History workloads (that is, the Near-term History (NTH) component's data manager subcomponent processing, which is executed in enclave SRB mode, when the NTH component is activated for the DB2 subsystems that OMEGAMON is monitoring.)¹
- New Stored Procedure Accounting Report
- Report on SOS metrics in Statistics
- End-to-end SQL monitoring (the Extended Insight feature) will leverage an imbedded web server, resulting in a small footprint
- Report on and save into performance database the evicted DB2 SQL statement cache entries
- Further extensions to data-sharing group support, including Sysplex wide locking conflict displaying Holder and Waiter details

Refer to the Tivoli Statement of Direction for IBM Tivoli OMEGAMON product supported feature and functions in Software Announcement [AP12-0038](#), dated February 07, 2012, for statements regarding OMEGAMON family initiatives.

¹ This information provides only general descriptions of the types and portions of workloads that are eligible for execution on Specialty Engines (SEs) such as zIIPs, zAAPs, and IFLs. IBM authorizes customers to use IBM SEs only to execute the processing of eligible workloads of

specific programs expressly authorized by IBM as specified in the Authorized Use Table for IBM Machines (AUT) provided at

http://www.ibm.com/systems/support/machine_warranties/machine_code/aut.html

No other workload processing is authorized for execution on an SE. IBM offers SEs at a lower price than General Processors/Central Processors because customers are authorized to use SEs only to process certain types or amounts of workloads as specified by IBM in the AUT.

DB2 Automation Toolkit for z/OS the SAP Edition, V2.2 (5655-W74)

provides an easy-to-use interface to DB2 Utilities Suite, which offers a full set of utilities that handle a wide variety of tasks that help improve productivity, performance, and availability. For further information, refer to Software Announcement [AP11-0368](#), dated October 11, 2011.

- DB2 Automation Tool now provides the ability to add batch builds and utility execution jobs to the DB2 administrative task scheduler. The DB2 administrative task scheduler allows jobs to be scheduled for one or more executions based on a set of user-provided parameters. DB2 Automation Tool provides an interface that allows the following functionality:
 - Create new tasks.
 - Update and view existing tasks.
 - Delete tasks.
 - View the status and output of executed tasks.

Any of the following DB2 Automation Tool-generated jobs can be scheduled:

- Job profiles (online build and batch builds)
- Unload utility jobs
- Disaster recovery profiles
- DB2 Automation Tool can now invoke a DB2 stored procedure immediately before, or during, or immediately after exceptions processing. This feature allows you to code any type of DB2 stored procedure that will either accept (trigger) or reject (not trigger) an object. The stored procedure can be a native SQL procedure, an external SQL procedure, or an external written in C, COBOL, or any programming language supported by DB2. The user exit will be called by exceptions processing during three processing phases and passed information about every object in the object profiles included in the job profile.
- DB2 Automation Tool now offers an interface to the DB2 10 autonomic statistics stored procedures. The stored procedures determine if statistics need to be collected and automate when RUNSTATS should be run. DB2 Automation Tool also provides an interface to manage maintenance windows for executing the RUNSTATS utility. APARs PM49638 and PM50141 (coreqs) must be applied to DB2 Automation Tool V4.1 to use this feature.
- DB2 Automation Tool now supports the CHECK DATA utility. You can create utility profiles for CHECK DATA and include them in job profiles.
- DB2 Automation Tool is now customized using IBM Tools Customizer, a common component that can manage most of the post SMP/E installation customization tasks for the IBM DB2 tools.
- A real-time statistics exception condition was added that can trigger an object if a REORG, LOAD, or RUNSTATS was performed on an object since the last image copy.
- The manner in which an exceptions profile user exit REXX EXEC is called has been changed, enabling the REXX EXEC to be stored into memory. Once the REXX EXEC is loaded, it can process all objects in an object profile without being repeatedly loaded and freed. This allows REXX EXECs that do DB2 CALLS to connect and disconnect only once for all objects per profile invocation.
- New exception conditions enable you to:
 - Specify a partition number, or a range of partition numbers, with a condition such as LE or GT. This allows you to exclude or include only partitioned or nonpartitioned objects, in general JCL.

- Specify to exclude or include only partition-by-growth table spaces.
- Trigger an exception if the number of days since a table space (or its related tables or indexes) was last altered meets your criteria. You can also specify to trigger an exception if an object has never been altered.
- Trigger an exception based on the percentage or the maximum allocated space the object has been allocated with or the percentage of the maximum amount of space that the object is using. These values also appear in the "Objects included in generated JCL" portion of the exceptions SYSOUT report.
- SYSPUNCH and SYSREC template support has been added for the REORG TABLESPACE utility.
- User-designated unit types can now be specified when allocating persistent data sets in utility profiles. If you need to specify a device type that is not in your site's eligible devicetable, you can provide a device name and type in a new panel.
- You can now create an image copy GDG base in a DB2 Recovery Expert image copy utility, with the limitation that date and time variables cannot be used in the GDG base.
- Load balancing support has been added to the Modify utility. This feature functions the same as current load balancing for COPY, COPYTOCOPY, and REORG jobs.
- You can now route informational, warning, and error messages that are generated by the DB2 Automation Tool batch build process to one, two, or three different DD names. If desired, you can override the DD names at the individual job level.
- The ISPF interface has been enhanced to support additional customization via the CUAATTR command. Additional interface enhancements were made to improve usability and uniformity with other IBM products.
- As part of efforts to concentrate on delivering the most value-added features to our customers, DB2 Automation Tool's Disaster Recovery feature is deprecated in Version 4.1 and will be removed in a future release. For a comprehensive solution that enables recovery operations with minimal disruption, including disaster recovery, IBM recommends IBM DB2 Recovery Expert for z/OS.

IBM DB2 QMF Classic Edition Value Unit Edition, V10.1 (5697-P31), a feature of IBM DB2 10 for z/OS VUE, provides all the enhancements that are available in DB2 QMF 10 Classic Edition. For further information, refer to Software Announcement [AP10-0355](#), dated October 19, 2010.

DB2 QMF Classic Edition VUE, V10.1, includes the following component:

- IBM DB2 QMF for TSO/CICS VUE

Charges for DB2 QMF Classic Edition VUE V10.1 are based on a one-time charge per value unit plus a charge per value unit for Subscription and Support (S&S). Because the program is an optional feature of DB2 VUE, the number of value units required for DB2 10 for z/OS VUE is equal to the number of value units required for QMF Classic Edition VUE. Value Unit entitlements for the program will be computed based on MSUs. The S&S is paid annually at the then-current prices. Usage may not exceed the number of value unit entitlements authorized by the applicable Proofs of Entitlement. If the total number of value units exceeds the quantity of value unit entitlements in your Proofs of Entitlement, you must notify your IBM representative or IBM Business Partner as stated in the IPLA.

For more information, refer to Software Announcement [AP10-0355](#), dated October 19, 2010.

For Value Unit-based pricing, refer to Software Announcement [AP10-0356](#), dated October 19, 2010.

IBM IMS Configuration Manager for z/OS, V2.1 (5655-WR2) is a tool that provides source control for dynamic resource definition (DRD) resources and allows you to manage IMS parameters. The product provides a seamless transition from MODBLKS to DRD and helps you leverage all the advantages of managing resource definitions dynamically. IMS Configuration Manager supports your entire application

development and maintenance lifecycle. For your development environment, it can help you make ad hoc changes to IMS definitions quick and straightforward. For your production environment, it can bundle and track related changes, and provides automated rollback.

The product can create a complete audit history of all changes, and helps you protect your definitions with robust and granular access control.

The major benefits of IMS Configuration Manager are:

- Structured transition to DRD
- Simplification of change management systems and processes
- Ability to make IMS management and configuration more accessible to new system programmers and application developers
- Support to help you achieve faster time-to-production of new IMS applications

These benefits can be realized by using these product features:

- Seamless DRD-enablement of stage 1 source
- Powerful ISPF-based resource editor
- History and auditing of all changes to resources
- Context-sensitive information about most IMS resources and parameters
- Enhanced services for DRD commands, including command optimization, journaling, and automated rollback
- Ability to track the installation of resource changes
- Ability to control access to resources through your SAF-enabled security device

IMS Configuration Manager for z/OS, V2.1 key functions and highlights:

- GUI for viewing live and repository resources
- Real-time change package installation
- Expanded change package validation
- Enhanced compare features
- Extended repository synchronization
- Enhanced reporting using install journals
- Backing out of change packages
- DRD command activity reporting
- Resource access control

IBM IMS Connect Extensions for z/OS, V2.3 (5655-S56) is a tool that enhances the manageability of TCP/IP access to IMS through IMS Connect, an integrated function of IMS. IMS Connect Extensions for z/OS provides the following features:

- **Monitoring and recording of IMS Connect activity:** IMS Connect Extensions offers a detailed audit of activity, providing you with the information to help you analyze performance, throughput, resource availability, and security. This information helps you to debug clients and new applications.
- **Single point of control for multiple IMS Connect systems:** Centralized management and control of all your IMS Connect systems, including Open Transaction Manager Access (OTMA), Open Database Manager (ODBM), and Multiple Systems Communication (MSC) workloads, from an ISPF dialog or from a distributed workstation.
- **Enhanced transaction management:** Dynamic management of TCP/IP transactions, allowing you to define rules to automatically distribute workloads and reroute messages when network failures or IMS flood states occur.
- **Enhanced Open Database management:** Dynamic management of TCP/IP DRDA® requests, allowing you to define rules to distribute workload.

- Improved client services: Additional features for IMS Connect clients such as enhanced information in error messages, password change facility, and extended message translation.

These features can help you to:

- Improve the availability, reliability, and performance of IMS Connect
- Speed and simplify problem determination
- Make your systems more transparent so that they are easier to audit and manage

IMS Connect Extensions for z/OS consists of:

- Components that run with IMS Connect
- Journal data sets that record IMS Connect activity
- An ISPF dialog-based client to manage IMS Connect systems and their IMS Connect Extensions features
- IMS Connect Extensions Operations Console, a GUI client

With IMS Connect Extensions for z/OS, V2.3, the functionality and usability of the product is improved as follows:

- Open Database support enables the routing and monitoring of DRDA requests, and includes:
 - Support for routing based on alias name or PSB name or both.
 - Monitoring of ODBM objects in the Status Monitor and viewing of DRDA sessions in the Active Sessions display.
 - An ODBM security exit (CEXAUTH0), which provides the same access control options as for OTMA workloads, including User ID/Password validation, ACEE caching, IMS Connect validation, and IMS Connect and IP address validation.
 - A new installation verification program that produces a DRDA workload.
- MSC support in the Status Monitor and Active Sessions display enables monitoring of IMS Connect to IMS Connect TCP/IP MSC communications.
- Enhancements to Active Sessions in the ISPF dialog and Operations Console:
 - A new active session type ODBM to support Open Database workloads introduced in IMS V11.
 - A new active session type MSC to support MSC workloads introduced in IMS V12.
 - New options on the RESET FORM primary command to preselect fields corresponding to the session type (OTMA, ODBM, or MSC).
- Enhancements to the Status Monitor in the ISPF dialog and Operations Console:
 - New object types ODBM and ALIAS to support Open Database.
 - New object types MSC and RICON to support IMS Connect to IMS Connect TCP/IP MSC communications introduced in IMS V12.
 - Ability to Stop and Resume ODBM and alias links.
 - Ability to Stop and Resume communications on a selected MSC physical link or with a remote IMS Connect instance.
 - Support of the RESET FORM primary command to restore the form to its defaults.
- Enhancements to Operations Console:
 - An import/export facility, which allows an Operations Console configuration file to be distributed to other users.
 - Support for Open Database and MSC object types in the Status Monitor.
 - Support new active session types for ODBM and MSC.
 - Support for issuing IMS Type-1 commands.
 - Active Sessions summary allowing the grouping of sessions by common items.
 - Auto refresh of the Active Sessions display.

- Support for saving multiple filters in Active Sessions and the Status Monitor.
- Selective highlighting of items that match certain filter conditions in both Active Sessions and the Status Monitor.
- Support for new IMS Connect commands in IMS V12.
- Control options data set: An optional CEXCTLIN DD statement enables selected configuration options to be provided when IMS Connect Extensions restarts. The supported options include:
 - CEXTRACE: Allows specifying the size of the IMS Connect Extensions trace buffer.
 - CEXROUTE: Allows routing of IMS commands using the rules for IMS transactions.
 - EVENTLOGGING: Option to optimize performance by buffering events before they are written to the active journal.
 - ODBMDEFAULTS: Allows specifying the default behavior for ODBM routing.
 - SET: Allows setting the scope in terms of IMS Connect systems for subsequent control options.
- Support for IMS Type-1 commands has been added to the ISPF command shell.
- Enhancements to the batch definition EXTRACT utility export facility to produce a configuration import file for the Operations Console.
- Ability to validate IMS Connect access based on the client IP address and IMS Connect port.
- Enhancements to the archive journal cleanup utility CLEAN statement.
- Improvements to the IMS Connect Extensions transaction definition offer the ability to dynamically set the Transaction Expiration and Client ID Cancellation options on and off.
- PRINT utility enhancements:
 - New keywords for the PRINT command indicate the time in the journal when printing should start (STATIME) and stop (STOTIME).
 - New keywords for the READ62 command provide the IPV4 address (IPV4ADR) and the IPV6 address (IPV6ADR) for qualification of printing.
- Enhancements to statistics collection for certain event records:
 - Current session counts for TCPIP PORT and DRDAPORT are now maintained from ICON startup.
 - MAXSOC from the HWS Configuration file is reported in a type 00 event.
- Authorized clients can now submit user data for logging to the journal.
- Support of IMS V12.

IBM IMS Performance Analyzer for z/OS, V4.3 (5655-R03) provides comprehensive transaction performance and system resource usage reporting for your Information Management System Database (IMS DB) and Transaction Manager (IMS TM) systems. This database management tool provides a wide variety of performance, usage, and availability reports that can help you:

- Analyze transaction response time
- Measure usage and availability of important resources, including databases, programs, regions, buffers (including database), and queues (message and other internal queues)
- Plan for IMS operational management, including scheduling database reorganizations, monitoring service-level adherence, charge-back accounting, and capacity planning
- Monitor significant system events that can adversely affect system performance and availability
- Boost system and application programmer productivity
- Report critical performance information -- from high-level management summaries to detailed traces for in-depth analysis
- Analyze the impact of IMS Connect on transaction performance

Integrated tools solution for IMS management

IMS Performance Analyzer for z/OS is an out-of-the-box solution that is part of an affordable, comprehensive portfolio of IBM database performance management tools. It complements IBM IMS Problem Investigator for z/OS to provide enhanced log analysis and reporting. The result can be improved productivity for problem analysts, more efficient IMS application performance, and higher system availability.

New features and enhancements offered with IMS Performance Analyzer for z/OS, V4.3:

- **OMEGAMON for IMS Application Trace Facility (ATF):** Collects detailed information about every application call made by IMS and DBCTL transactions. DLI and DB2 call results are recorded in the ATF journal, including function code, SSA, KFBA, and I/O area. This helps you conduct the most in-depth analysis of transaction behavior available.

IMS Performance Analyzer provides management and reporting of ATF, including:

- Archival of the online ATF journals to offline data sets for post-analysis. Filtering criteria allows you to archive problem transactions only, significantly reducing the volume of data kept and time to resolution.
- Three levels of reporting are provided, from summarization of transaction activity and high-level transaction detail, to in-depth traces that report every detail about each application DLI call.

Additionally, support for OA36278: INTERIM FEATURE 3 (IF3) is provided.

- **Improved CICS-DBCTL reporting:** The CICS® transaction ID and task number are now reported in DBCTL form-based reports. This allows you to match the CICS transaction as reported by CICS Performance Analyzer with the IMS thread reported by IMS Performance Analyzer and to better understand the impact of IMS on CICS transaction performance.

In addition, form-based reporting provides a more granular breakdown of syncpoint processing, including phase 1, phase 2, and OTHREAD elapsed times.

- **IMS Version 10, 11 and 12 support:** Exploits all the new features and instrumentation in the IMS log and monitor:
 - IMS Version 10: Type 56FA transaction accounting record provides more accurate transaction CPU time, DLI call, database I/O, and ESAF usage.
 - IMS Version 11: Synchronous call-out (ICAL) and Open Database.
 - IMS Version 12: Improved MSC statistics.

In addition:

- Sysplex reporting supports changes in the IMS version across log files, allowing you to seamlessly continue IMS Performance Analyzer reporting when migrating to a new version of IMS.
- The impact of synchronous call-out (ICAL) requests on overall transaction performance can be measured.
- **New specialized reporting:** The Log Information report provides a synopsis of the log record types in the IMS log, including record count, lengths, rate per second, and volume. Selected record types are broken down further to provide additional information about transaction arrival and processing rates.
- **Transaction Index:** The index is improved to append diagnostic information from the IMS log when available, for example, the deadlock diagnostic record. In addition, you can specify exception criteria to record problem transactions only.
- **Form-based reporting:** Form-based reporting provides flexible, user-customizable transaction performance analysis. Further enhancements provide improved specialized analysis:
 - CICS-DBCTL, including thread availability and scheduling delay.
 - Syncpoint time breakdown, including phases 1 and 2.

- OTHREAD: to determine the length of time the (asynchronous) OTHREAD process takes to update Fast Path areas.
- Program switch sequences can be better tracked and summarized.
- BMP syncpoint/checkpoint activity.
- Individual database update activity: determining which transactions update which databases.
- External subsystem activity: determining which transactions use DB2, and whether for update or read-only.
- **Connect Transaction Index:** Contains a record for each Connect transaction recorded in the IMS Connect Extensions journal, and includes all the cumulative information from the Connect Extensions journal about that transaction.

IMS Problem Investigator for z/OS uses the Connect Index to perform intelligent problem detection, either on its own or merged with the associated Connect Extensions journals and IMS log files, to provide improved levels of problem detection. For example, "Locate all transactions with response time greater than 1 second," then use tracking to drill down.

- **Application Groups:** Allow you to group transactions that belong to the same business or application unit for reporting purposes, allowing you to analyze performance based on business unit rather than individual transaction code.
- **Internal resource usage enhancements:** The internal resource usage report (IRUR) is enhanced to support the new statistics provided by IMS Version 12:
 - Logical Logger
 - TCP/IP
- **Tools Base IMS Tools Knowledge base:** IMS log reporting can now write reports directly to the IMS Tools Knowledge Base repository for historical collection and viewing from the IMS Tools KB dialog. IMS Tools Knowledge Base is a component of IBM Tools Base for z/OS, V1.3 (5655-V93).

IBM IMS Performance Solution Pack for z/OS, V1.2 (5655-S42) delivers a more affordable, comprehensive portfolio of IBM database performance management tools. The product combines the features and functions of IMS Connect Extensions for z/OS, IMS Performance Analyzer for z/OS, and IMS Problem Investigator for z/OS. The three products are complementary, making the end-to-end analysis of IMS transactions faster and more easy, supporting improved productivity for problem analysts, improved IMS application performance, more efficient IMS resource utilization, and higher system availability.

- **IMS Connect Extensions** is a tool that enhances the manageability of TCP/IP access to IMS through IMS Connect, an integrated function of IMS.
- **IMS Performance Analyzer** provides comprehensive transaction performance and system resource usage reporting for your Information Management System Database (IMS DB) and Transaction Manager (IMS TM) systems.
- **IMS Problem Investigator** enables interactive analysis of log files to gain insight into IMS transaction events within and across systems.

IMS Connect Extensions for z/OS enhances the manageability of TCP/IP access to IMS through IMS Connect. The tool provides the following features:

- Monitoring and recording of IMS Connect activity: IMS Connect Extensions offers a detailed audit of activity, providing you with the information to help you analyze performance, throughput, resource availability, and security. You can also use this information to debug clients and new applications.
- Single point of control for multiple IMS Connect systems: Centralized management and control of all your IMS Connect systems, including Open Transaction Manager Access (OTMA), Open Database Manager (ODBM), and Multiple Systems Communication (MSC) workloads, from an ISPF dialog or from a distributed workstation.
- Enhanced transaction management: Dynamic management of TCP/IP transactions, allowing you to define rules to automatically distribute workloads and reroute messages when network failures or IMS flood states occur.

- Enhanced Open Database management: Dynamic management of TCP/IP DRDA requests, allowing you to define rules to distribute workload.
- Improved client services: Additional features for IMS Connect clients such as enhanced information in error messages, password change facility, and extended message translation.

These features help you to:

- Improve the availability, reliability, and performance of IMS Connect
- Speed and simplify problem determination
- Make your systems more transparent so that they are easier to audit and manage

IMS Connect Extensions consists of:

- Components that run with IMS Connect
- Journal data sets that record IMS Connect activity
- An ISPF dialog-based client to manage IMS Connect systems and their IMS Connect Extensions features
- IMS Connect Extensions Operations Console, a GUI client

IMS Performance Analyzer for z/OS provides comprehensive transaction performance and system resource usage reporting for your IMS DB and IMS TM systems. This database management tool provides a wide variety of performance, resource usage, and availability reports that can help you:

- Analyze transaction response time
- Measure usage and availability of important resources, including databases, programs, regions, buffers (including database), and queues (message and other internal queues)
- Plan for IMS operational management, including scheduling database reorganizations, monitoring service level adherence, charge-back accounting, and capacity planning
- Monitor significant system events that can adversely affect system performance and availability
- Boost system and application programmer productivity
- Report critical performance information -- from high-level management summaries to detailed traces for in-depth analysis
- Analyze the impact of IMS Connect on transaction performance

New features and enhancements provided with IMS Performance Analyzer for z/OS:

- Supports IMS V10, 11, and 12, including all their new features.
- New Log Information report provides a high-level synopsis of your system.
- Provides comprehensive performance analysis and tuning assistance for IMS.
- Delivers end-to-end transit analysis for all types of supported transaction workloads.
- Measures performance in IMS Connect and combines it with the IMS log for a complete transaction lifecycle picture.
- Provides comprehensive reporting of OMEGAMON for IMS Transaction Reporting Facility (TRF).
- Supports OMEGAMON for IMS TRF and ATF at IF3 level.
- Manages reporting requirements across the IMS enterprise through ISPF dialog or batch interface.
- Offers DBRC Log selection for quicker and easier log report requests.
- Allows you to design your own transit reports via the Report Forms feature.
- Measures the impact of Sync Callout (ICAL) on transaction performance.
- Offers improved Program Switch detection and analysis.

- Provides comprehensive IMS monitor reporting, including Fast Path, external subsystem, and synchronous call-out.
- Complements IMS Problem Investigator for z/OS in the investigation of IMS performance-related problems. IMS and Connect Transaction Indexes, generated by IMS Performance Analyzer, can be used in the IMS Problem Investigator for smarter problem identification and resolution.

IMS Problem Investigator for z/OS is a powerful problem analysis aid for IMS DB and IMS TM systems. It enables IMS administrators and programmers to interactively explore formatted, interpreted, and more easily customizable views of log records. It also enables them to identify and analyze problems more quickly, without requiring an expert understanding of log data structures and the relationships between log records.

IMS Problem Investigator connects log records from across various sources to create a composite view of the entire transaction, allowing you to walk through events in the lifecycle of the transaction, even as it spans multiple IMS systems, IMS Connect, WebSphere® MQ, and DB2. As a result, it can help you to more quickly isolate problems in even the most complex transactions to a specific area and then work to solve these problems in significantly less time.

IMS Problem Investigator for z/OS:

- Exploits the wealth of information collected by IMS and its related subsystems
- Offers interactive problem determination, with powerful record formatting and navigation aids that help to simplify log analysis
- Provides an end-to-end replay of an IMS transaction from a single screen, including DB2 and MQ events
- Tracks the transaction lifecycle through IMS Connect and into IMS
- Supports OMEGAMON for IMS Transaction Reporting Facility (TRF) and Application Trace Facility (ATF) for detailed DLI and DB2 call analysis and CPU utilization
- Provides log record analysis that can drill down to the field-level, with online help
- Displays transaction times and event latencies to help identify bottlenecks
- Provides a REXX command interface for customized log record analysis and extract
- Offers batch reporting and extract facilities
- Provides automatic log file selection using DBRC
- Complements other tools in the performance management portfolio

New features and enhancements provided with IMS Problem Investigator for z/OS, V2.3:

- OMEGAMON for IMS Application Trace Facility (ATF) support for in-depth application analysis.
- Open Database DRDA analysis using IMS Connect Extensions.
- Scrub utility can be used to remove sensitive or confidential user data from IMS log records.
- A new batch reporting option, BRIEF, provides a more concise way of reporting log records.
- A new Log Information report provides a synopsis of the log record types in the IMS log.
- MSC via IMS Connect; track the transaction's Connect events across the sysplex.
- IMS version 12 Repository Audit log stream; review the server control and client requests that impacted IMS resource definition changes.
- Supports IMS Version 10, 11 and 12, including all the latest changes in IMS and IMS Connect.
- IMS Trace Table events can be viewed and tracked, providing improved breakdown of the transaction lifecycle.

- ISPF dialog usability enhancements, including comments allowed in the log file Process list, the FIND command in selection prompt lists, and EXTRACT to keep the tracked transactions' log records.

Key features provided with IMS Performance Solution Pack for z/OS, V1.2

The IMS Performance Solution Pack offers a suite of tools that are useful separately, but when combined they can provide a powerful performance analysis capability. Individually, each of the tools that comprise the IMS Performance Solution Pack provides you with a wealth of insight into activity within IMS, which helps you to meet service levels, plan capacity, and can add new value to IMS. However, using these tools together provides a unique set of benefits.

By using the IMS Performance Solution Pack, you can perform the following tasks:

- Use IMS Problem Investigator to browse sections in the IMS log where poorly performing transactions are found (using an accounting index that is generated by IMS Performance Analyzer).
- Quickly identify or eliminate IMS Connect as the source of performance problems and then determine whether the problem is in OTMA, MQ, DB2, shared queues, or any of many other subsystems.
- Automatically select and combine IMS Connect Extensions journals with IMS logs to view only those records from the time of day that a problem occurred.
- Rapidly isolate problems in complex interrelated enterprise systems, thereby reducing downtime.
- Focus more on solving business problems rather than searching for and formatting logs.
- Pinpoint exactly where and why transactions are delayed.
- Perform advanced analysis using less-experienced staff to determine:
 - The cause of TCP/IP client delays
 - Why transactions are falling below service level agreements
- Map the lifecycle of individual transactions, which provides a better understanding of your environment.
- Solve problems with new and existing applications and transactions.
- Audit changes, security violations, and transaction pathways.

IBM IMS Problem Investigator for z/OS, V2.3 (5655-R02), a powerful problem analysis aid for Information Management System Database (IMS DB) and Transaction Manager (IMS TM) systems, helps make identifying and resolving problems faster and easier. It provides an Interactive System Productivity Facility (ISPF) dialog, as well as a batch and REXX interface, to format and present IMS-related diagnostic data, including the IMS log and monitor, IMS Connect events collected by IBM IMS Connect Extensions for z/OS, as well as OMEGAMON TRF and ATF, DB2, WebSphere MQ logs, and log streams such as the Common Queue Server (CQS).

IMS Problem Investigator for z/OS:

- Exploits the wealth of information collected by IMS and its related subsystems
- Offers interactive problem determination, with powerful record formatting and navigation aids that help to simplify log analysis
- Provides an end-to-end replay of an IMS transaction from a single screen, including DB2 and MQ events
- Tracks the transaction lifecycle through IMS Connect and into IMS
- Supports OMEGAMON for IMS Transaction Reporting Facility (TRF) and Application Trace Facility (ATF) for detailed DLI and DB2 call analysis and CPU utilization
- Provides log record analysis that can drill down to the field-level, with online help
- Displays transaction times and event latencies to help identify bottlenecks
- Provides a REXX command interface for customized log record analysis and extract

- Offers batch reporting and extract facility
- Provides automatic log file selection using DBRC
- Complements other tools in the performance management portfolio

New features and enhancements provided with IMS Problem Investigator for z/OS, V2.3:

- **OMEGAMON for IMS Application Trace Facility (ATF)**

OMEGAMON for IMS ATF collects detailed information about every application call made by IMS and DBCTL transactions. DLI and DB2 call results are recorded in the ATF journal, including function code, SSA, KFBA, and I/O area. This helps you conduct the most in-depth analysis of transaction behavior available.

IMS Problem Investigator provides comprehensive support for ATF:

- Investigate IMS and DBCTL applications and their DLI calls using the interactive dialog, reading directly from the online ATF journals.
- Use tracking to see all the application calls associated with a single transaction, and identify bottlenecks.
- Merge the ATF journal with the IMS (and DB2) logs to see the complete end-to-end picture of the transaction lifecycle.

Includes support for OA36278: INTERIM FEATURE 3 (IF3).

- **Open Database DRDA analysis using IMS Connect Extensions:**

Web-based and other distributed transactions that use IMS Open Database to access IMS databases can now be investigated in detail. IMS Connect Extensions, via its event journaling, provides a comprehensive trace of IMS Open Database requests. IMS Problem Investigator helps by providing:

- Easier-to-read, interactive view of these requests
- Formatting of the DLI calls that are generated from Open Database SQL queries
- Analysis of DLI call results, including I/O and feedback areas
- Insight into Open Database request patterns that may signify problems; for example, nonallocation of PSBs
- An end-to-end picture by combining the information logged in IMS Connect with the information logged in IMS

- **Scrub**

The Scrub utility can help you remove sensitive or confidential user data from IMS log records, preparing them for sending off-site or making them available in-house for problem analysis. IMS Problem Investigator provides two ways of implementing Scrub:

- A batch utility that creates a scrubbed extract data set.
- An exit to enforce scrubbing of IMS log records prior to their display in IMS Problem Investigator; no log file preparation is required.

- **IMS Trace**

Entries in the IMS Trace Table diagnostic log records (x'67') are interpreted and presented as events in the transaction lifecycle.

- Tracking shows the individual system and DLI call events, including lock delays, together with the usual IMS log records to provide a more complete picture of the problem transaction.

- **ISPF dialog usability enhancements**

- Insert comments into the Process list to describe the problem scenario for each set of log files.
- The FIND command is available in all selection prompt lists.
- The EXTRACT command to retain the log records from a tracked transaction in a separate small file for later analysis.

- **New batch reporting option: BRIEF**

The BRIEF batch reporting option provides a clear and simple way of reporting log records in batch. Only general and high-level information is reported, similar to the way records are browsed in the dialog, including:

- Log code and description
- High-level identification information, via global fields
- Time stamps and delta elapsed time between log record events

- **New Log Information report**

The Log Information report provides a synopsis of the log record types in the IMS log, including record count, lengths, rate per second, and volume. Selected record types are broken down further to provide additional information about transaction arrival and processing rates.

- **IMS V12 MSC enhancement using IMS Connect**

IMS V12 can use IMS Connect to provide MSC connectivity. IMS Connect Extensions, via its event journaling, provides comprehensive detail about the Connect-to-Connect events associated with MSC transaction processing. IMS Problem Investigator then provides the usual interactive event formatting and tracking across the front-end and back-end systems.

- **Connect Transaction Index**

The Connect Transaction Index, created by IMS Performance Analyzer, contains a record for each Connect transaction recorded in the IMS Connect Extensions journal, and includes all the cumulative information from the IMS Connect Extensions journal about that transaction. IMS Problem Investigator for z/OS uses the Connect Index to perform intelligent problem detection, either on its own or merged with the associated IMS Connect Extensions journals and IMS log files, to offer improved levels of problem detection. For example, "Locate all transactions with response time greater than 1 second," then use tracking to drill down.

- **IMS Version 12 Repository Audit log stream**

IMS V12 introduces its repository for resource definitions. The IMS repository server (optionally) keeps an audit log in a log stream. IMS Problem Investigator for z/OS allows you to analyze the repository events, including server control, and client unit-of-work requests.

- **IMS Version 10, 11, and 12 support**

Exploits all the new instrumentation in the IMS log and monitor:

- IMS V10: Type 56FA transaction accounting record provides more accurate and reliable statistics for transaction CPU time, DLI call, database I/O, and ESAF usage.
- IMS V11: Synchronous call-out (ICAL) and Open Database.
- IMS V12: Improved MSC statistics.

In addition, all new IMS V12 Connect events are recorded by IMS Connect Extensions in its journal. IMS Problem Investigator for z/OS provides comprehensive analysis of these events.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Value Unit-based pricing

Value Unit pricing for eligible IBM System z IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and

enterprise aggregation. Each System z 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 you. For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the *required license capacity*. 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 offer additional price benefits. The quantity of each System z IPLA program that you have acquired is referred to as *entitled license capacity*. If you want to grow your entitled license capacity for a System z IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each System z 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 Value Units 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 website

<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 System z IPLA program you selected, refer to the [Terms and conditions](#) section.

Program number

Program number	VRM	Program name
5697-Q02	2.2.0	IBM DB2 Accessories Suite for z/OS
5655-w78	3.1.0	IBM DB2 Recovery Expert for z/OS
5655-w35	5.1.1	IBM DB2 Buffer Pool Analyzer for z/OS
5655-w37	5.1.1	IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS
5655-w38	5.1.1	IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS
5655-w74	2.2.0	IBM DB2 Automation Toolkit for z/OS the SAP Edition
5697-P31	10.1.0	IBM DB2 QMF Classic Edition Value Unit Edition, V10.1, a feature of DB2 10 for z/OS VUE
5655-wR2	2.1.0	IBM IMS Configuration Manager for z/OS
5655-S56	2.3.0	IBM IMS Connect Extensions for z/OS
5655-R03	4.3.0	IBM IMS Performance Analyzer for z/OS
5655-S42	1.2.0	IBM IMS Performance Solution Pack for z/OS
5655-R02	2.3.0	IBM IMS Problem Investigator for z/OS

Product identification number

Program PID number	Subscription and Support PID number
5697-Q02	5655-R30
5655-W78	5697-N47
5655-W35	5655-E55
5655-W37	5655-R07
5655-W38	5655-R08
5655-W74	5697-N31
5697-P31	5697-P11
5655-WR2	5655-L70
5655-S56	5655-K49
5655-R03	5655-E18
5655-S42	5655-S43
5655-R02	5655-K51

Offering Information

Product information is available via the Offering Information website

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

Publications

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 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 each of the following publications is supplied automatically with the material.

Title	Order number
IBM DB2 Accessories Suite for z/OS, V2.2 (5697-Q02)	
DB2 Accessories Suite V10:	
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
IBM Data Studio V3.1 for AIX®, Linux, and Windows	LK5T-8860
IBM Enterprise Content Management Text Search for DB2 for z/OS V1.5 DVD	LCD4-8423
Installable Information Management Software for z/OS Solutions Information Center V2.0	SC19-3719
License Information	GC19-3029
Program Directory	GI10-8842
DB2 Accessories Suite V9:	
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
IBM Data Studio V3.1 for AIX, Linux, and Windows	LK5T-8860
IBM Enterprise Content Management Text Search for DB2 for z/OS V1.5 DVD	LCD4-8423
License Information	GC19-3727
Program Directory	GI10-8841
SPSS Modeler Server Scoring Adapter for DB2 on z/OS:	
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
License Information	GC19-3721

Program Directory	GI10-8919
IBM DB2 Recovery Expert for z/OS, V3.1 (5655-w78)	
IBM International Program License Agreement (IPLA-warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
License Information	GC19-3685
Program Directory	GI10-8927
IBM DB2 Buffer Pool Analyzer for z/OS, V5.1.1 (5655-w35)	
IBM International Program License Agreement (IPLA-warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
License Information	GH12-6974
Program Directory	GI19-5004
IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1 (5655-w37)- US English	
License Information	GH12-6971
Program Directory	GI19-5001
IBM International Program License Agreement (IPLA-warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
IBM Data Server Client V10.1 Linux on 32-bit AMD and Intel™ systems (x86) DVD	LCD7-5735
IBM Data Server Client V10.1 Linux on AMD 64 and Intel EM 64T systems (x64) DVD	LCD7-5736
IBM Data Server Client V10.1 windows on 32-bit AMD and Intel systems (x86) DVD	LCD7-5737
IBM Data Server Client V10.1 windows on AMD 64 and Intel EM 64T systems (x64) DVD	LCD7-5738
DB2 Enterprise Server Edition V10.1 Linux on 32-bit AMD and Intel systems (x86) DVD	LCD7-5725
DB2 Enterprise Server Edition V10.1 Linux on AMD 64 and Intel EM 64T systems (x64) DVD	LCD7-5726
DB2 Enterprise Server Edition V10.1 Linux on System z DVD	LCD7-5727
DB2 Enterprise Server Edition V10.1 Linux on POWER® (System i® and System p®) systems DVD	LCD7-5728
DB2 Enterprise Server Edition V10.1 AIX DVD	LCD7-5729
DB2 Enterprise Server Edition V10.1 HP-UX on HP Integrity Itanium-based systems DVD	LCD7-5730
DB2 Enterprise Server Edition V10.1 Solaris on UltraSPARC systems 32-bit DVD	LCD7-5731
DB2 Enterprise Server Edition V10.1 solaris on x64 operating systems 64-bit DVD	LCD7-5732
DB2 Enterprise Server Edition V10.1 windows on 32-bit AMD and Intel systems (x86) DVD	LCD7-5733
DB2 Enterprise Server Edition V10.1 windows on AMD 64 and Intel EM 64T systems (x64) DVD	LCD7-5734
DB2 Enterprise Server Edition V10.1 Restricted Use Activation CD	LCD7-5739
IBM Tivoli OMEGAMON Application Support Files for z/OS V5.1.0 DVD	LCD7-5139
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1 Activation Kit for End-to-End SQL Monitoring DVD	LCD7-2624
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1, Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1, Language Pack DVD	LCD7-2597
InfoSphere Optim Performance Manager V5.1.1 for DB2 for Linux, UNIX™, and windows, Server - AIX, Linux, Solaris, windows DVD	LCD7-2621
InfoSphere Optim Performance Manager Extended Edition for DB2 for Linux, UNIX, and Windows V5.1.1, Client Software DVD	LCD7-2622
InfoSphere Optim Performance Manager Extended Edition V5.1.1, Plugin for Tivoli Enterprise Portal DVD	LCD7-2623

IBM Tivoli OMEGAMON XE Language Packs for z/OS	LCD7-3583
IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1 (5655-w37)- Japanese - Kanji Program Directory	GI19-5002
IBM International Program License Agreement (IPLA-warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
IBM Data Server Client V10.1 Linux on 32-bit AMD and Intel systems (x86) DVD	LCD7-5735
IBM Data Server Client V10.1 Linux on AMD 64 and Intel EM 64T systems (x64) DVD	LCD7-5736
IBM Data Server Client V10.1 windows on 32-bit AMD and Intel systems (X86) DVD	LCD7-5737
IBM Data Server Client V10.1 windows on AMD 64 and Intel EM 64T systems (x64) DVD	LCD7-5738
DB2 Enterprise Server Edition V10.1 Linux on 32-bit AMD and Intel systems (x86) DVD	LCD7-5725
DB2 Enterprise Server Edition V10.1 Linux on AMD 64 and Intel EM 64T systems (x64) DVD	LCD7-5726
DB2 Enterprise Server Edition V10.1 Linux on System z DVD	LCD7-5727
DB2 Enterprise Server Edition V10.1 Linux on POWER (System i and System p) systems DVD	LCD7-5728
DB2 Enterprise Server Edition V10.1 AIX DVD	LCD7-5729
DB2 Enterprise Server Edition V10.1 HP-UX on HP Integrity Itanium-based systems DVD	LCD7-5730
DB2 Enterprise Server Edition V10.1 Solaris on UltraSPARC systems 32-bit DVD	LCD7-5731
DB2 Enterprise Server Edition V10.1 Solaris on x64 operating systems 64-bit DVD	LCD7-5732
DB2 Enterprise Server Edition V10.1 windows on 32-bit AMD Intel systems (x86) DVD	LCD7-5733
DB2 Enterprise Server Edition V10.1 windows on AMD 64 and Intel EM 64T systems (x64) DVD	LCD7-5734
DB2 Enterprise Server Edition V10.1 Restricted Use Activation CD	LCD7-5739
IBM Tivoli OMEGAMON Application Support Files for z/OS V5.1.0 DVD	LCD7-5139
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1, Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1, Language Pack DVD	LCD7-2597
InfoSphere Optim Performance Manager V5.1.1 for DB2 for Linux, UNIX, and windows, Server - AIX, Linux, Solaris, windows DVD	LCD7-2621
InfoSphere Optim Performance Manager Extended Edition for DB2 for Linux, UNIX, and windows V5.1.1, Client Software DVD	LCD7-2622
InfoSphere Optim Performance Manager Extended Edition V5.1.1, Plugin for Tivoli Enterprise Portal DVD	LCD7-2623
IBM Tivoli OMEGAMON XE Language Packs for z/OS	LCD7-3583
IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1 (5655-w38) - US English License Information	GH12-6972
Program Directory	GI19-5003
IBM International Program License Agreement (IPLA-warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
IBM Tivoli OMEGAMON XE Language Packs for z/OS	LCD7-3583
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1, Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1, Data Files CD	LCD7-2600
IBM Tivoli OMEGAMON XE Monitoring Agents on z/OS Quick Start Guide	GI11-8918
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1, Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1, Language Pack DVD	LCD7-2597

IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1 (5655-W38) - Japanese - Kanji	
Program Directory	GI19-5002
IBM International Program License Agreement (IPLA-Warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
IBM Tivoli OMEGAMON XE Language Packs for z/OS	LCD7-3583
IBM Tivoli OMEGAMON XE Monitoring Agents on z/OS Quick Start Guide	GI11-8918
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1, Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1, Data Files CD	LCD7-2600
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1, Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1, Data Files CD	LCD7-2600
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1, Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1, Language Pack DVD	LCD7-2597
IBM DB2 Automation Toolkit for z/OS the SAP Edition, V2.2 (5655-W74)	
License Information	GC19-3245
Program Directory	GI10-8873
IBM International Program License Agreement (IPLA-Warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
IBM DB2 QMF Classic Edition Value Unit Edition, V10.1 (5697-P31), feature of DB2 10 for z/OS VUE - US English	
License Information	GC19-3718
Program Directory	GI10-8915
IBM DB2 QMF Classic Edition Value Unit Edition, V10.1 (5697-P31), feature of DB2 10 for z/OS VUE - Multilingual	
License Information	GC19-3718
Program Directory NLV	GI10-8916
IBM IMS Configuration Manager for z/OS, V2.1 (5655-WR2)	
License Information	GC19-3229
Program Directory	GI10-8868
IBM International Program License Agreement (IPLA-Warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
IBM IMS Connect Extensions for z/OS, V2.3 (5655-S56)	
License Information	GC19-1164
Program Directory	GI10-8758
IBM International Program License Agreement (IPLA-Warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
IBM IMS Performance Analyzer for z/OS, V4.3 (5655-R03)	
License Information	GC18-9777
Program Directory	GI10-8703
IBM International Program License Agreement (IPLA-Warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011
IBM IMS Performance Solution Pack for z/OS, V1.2 (5655-S42)	
License Information	GC19-2901
Program Directory	GI10-8821
IBM International Program License Agreement (IPLA-Warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011

IBM IMS Problem Investigator for z/OS, V2.3 (5655-R02)	
License Information	GC18-9780
Program Directory	GI10-8704
IBM International Program License Agreement (IPLA-Warranted)	Z125-3301
IBM International Agreement for Acquisition of Software Maintenance	Z125-6011

The publications for 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>

Publications are available in PDF or BookManager® formats on the next release of the software product libraries, z/OS and Software Products DVD Collection (SK3T-4271), which requires a DVD drive in DVD-9 (single-sided, dual-layer) format.

Title	Order number
IBM DB2 Accessories suite for z/OS, V2.2 (5697-Q02): Spatial Support for DB2 Version 9.1 for z/OS User's Guide and Reference	GC19-1145
Spatial Support for DB2 10 for z/OS User's Guide and Reference	GC19-2986
Text Search for DB2 for z/OS Installation, Administration, and Reference	GC19-2987
IBM DB2 Recovery Expert for z/OS, V3.1 (5655-w78) User's Guide	SC19-3687
DB2 Buffer Pool Analyzer for z/OS, V2.1 (5697-w35) User's Guide	SH12-6975
Configuration Guide	SH12-6976
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1 (5655-w37) Configuration and Customization Guide	GH12-6970
Messages	GH12-6965
Monitoring Performance from ISPF	SH12-6968
Monitoring Performance from the OMEGAMON Classic interface	SH12-6966
Monitoring Performance from Performance Expert Client	SH12-6967
Parameter Reference	SH12-6977
Report Command Reference	SH12-6964
Report Reference	SH12-6963
Reporting User's Guide	SH12-6969
IBM InfoSphere Optim Performance Manager Installation Guide V5.1.1	SC19-2934
IBM Tivoli OMEGAMON XE and IBM Tivoli Management Services in z/OS: Upgrade Guide	SC23-9745
Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1 (5655-w38) Configuration and Customization Guide	GH12-6970
Messages	GH12-6965
Monitoring Performance from ISPF	SH12-6968
Monitoring Performance from the OMEGAMON Classic interface	SH12-6966
Monitoring Performance from Performance Expert Client	SH12-6967
Parameter Reference	SH12-6977
Report Command Reference	SH12-6964
Report Reference	SH12-6963
Reporting User's Guide	SH12-6969
IBM Tivoli OMEGAMON XE and IBM Tivoli Management Services in z/OS: Upgrade Guide	SC23-9745
DB2 Automation Toolkit for z/OS the SAP Edition, V2.2 (5655-w74) User's Guide	SC19-2752
Introducing DB2 QMF	GC19-2885

Installing and Managing DB2 QMF for TSO and CICS	GC19-2886
Developing DB2 QMF Applications Using DB2 QMF	SC19-2887
Using DB2 QMF	SC19-2888
DB2 QMF Reference	SC19-2889
DB2 QMF Messages and Codes	GC19-2890
IMS Configuration Manager for z/OS, V2.1 (5655-WR2) User's Guide	SC19-3228
IMS Connect Extensions for z/OS, V2.3 (5655-S56) User's Guide	SC19-3632
IMS Performance Analyzer for z/OS, V4.3 (5655-R03) User's Guide	SC19-3633
Report Reference	SC19-3634
IMS Problem Investigator for z/OS, V2.3 (5655-R02) User's Guide	SC19-3635
IMS Performance Solution Pack for z/OS, V1.2 (5655-S42) Overview and Customization	SC19-3636
IMS Connect Extensions for z/OS User's Guide	SC19-3632
IMS Performance Analyzer for z/OS User's Guide	SC19-3633
IMS Performance Analyzer for z/OS Report Reference	SC19-3634
IMS Problem Investigator for z/OS User's Guide	SC19-3635

The following material is available at

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

- Overview brochure: IBM DB2 and IMS Tools Overview (IMD11760-USEN)

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

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

Technical information

Specified operating environment

Hardware requirements

The products in this announcement will operate on any System z hardware configuration that supports the required versions of DB2 or IMS.

Additional DB2 tools hardware requirements:

DB2 QMF Classic Edition VUE V10.1, (5697-P31)

- DB2 QMF for TSO/CICS requires a display station supported by Graphical Data Display Manager (GDDM®).

Additional IMS tools hardware requirements:

IMS Configuration Manager for z/OS, V2.1 (5655-WR2), IMS Connect Extensions for z/OS, V2.1 (5655-S56), and IMS Performance Solution Pack for z/OS, V1.2 (5655-S42) require:

- Server: Any hardware that is capable of running IMS V10.1, or later
- Client: Any hardware that is capable of running Windows XP Professional (32-bit) or Windows Vista (32-bit) or Windows 7 (32-bit) or Windows 7 (64-bit) with a minimum of:
 - 1 GB memory (Windows XP Professional)
 - 1.5 GB memory (Windows Vista or Windows 7)
 - A minimum of 350 MB free disk space

Software requirements

Mandatory installation requirements:

- z/OS V1.11 (5694-A01), or later
- IBM SMP/E for z/OS V3.5 (5655-G44), or later

DB2 Tools:

DB2 QMF Classic Edition VUE V10.1 (5697-P31) requires z/OS V1.11 on zNALC (5694-A01), or later.

Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1 (5655-W37), and Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1 (5655-W38) require Tivoli Monitoring V6.2.3 (5698-A79), an installation function prerequisite.

Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1 and Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1 have an additional mandatory operational requirement for DFSMSTM, which is included in z/OS.

IMS Tools:

IMS Performance Solution Pack requires 5655-V93 IBM Tools Base for z/OS, V1.3 at the latest maintenance level.

Mandatory operational requirements:

The DB2 Tools are designed to operate with:

- DB2 V9.1 (5635-DB2)
- DB2 Value Unit Edition V9.1 (5697-P12)
- DB2 V10.1 (5605-DB2)
- DB2 Value Unit Edition V10.1 (5697-P31)

The IMS Tools are designed to operate with:

- IMS V10.1 (5635-A01)
- IMS V11.1 (5635-A02)
- IMS V12.1 (5635-A03)

Conditional operational requirements:

DB2 Tools:

DB2 Recovery Expert for z/OS, V3.1 (5655-W78) requires:

- For the post-SMP/E product customization:
 - IBM Tools Base, V1.3 (5655-V93), or later, a no-charge product at the latest maintenance level
- Any one of the following product pairs in order to operate:
 - DB2 for z/OS V9.1 (5635-DB2) or DB2 for z/OS V9.1 VUE (5697-P12), and DB2 Utilities Suite for z/OS, V9.1 (5655-N97)
 - DB2 for z/OS V10.1 (5605-DB2) or DB2 for z/OS V10.1 VUE (5697-P31), and DB2 Utilities Suite for z/OS, V10.1 (5655-V41)
- BCV and SNAP backups require:
 - EMC Symmetrix 6, or later, running with Microcode 5x67, or later.
 - To use Enginuity Consistency Assist (ECA), Microcode 5x67 with patch 14882, 5x68 with patch 18954, or 5x69, or later, is required. To use ECA with SNAP VOLUME technology, the EMC SNAP library must be level 5.5, or higher. Protected BCV restore requires Microcode 5x70, or higher.
- FlashCopy® requirements for backup and restore:

- Use of FlashCopy for full system backup and restore requires the storage subsystem to be FlashCopy V1 capable.
- Object level restore requires the storage subsystem be FlashCopy V2 capable.
- DFSMSdss requirements
 - For DFSMSdss backups, DFSMSdss must be V1R8, or higher
- To perform encryption during offloads, DFSMSdss requires the following software:
 - Encryption Facility DFSMSdss Encryption Feature (FMID HCF773D)
 - IBM Cryptographic Services Facility (ICSF) (HCR770B, or higher)
- Browser client requires:
 - Web browser running Adobe™ Flash Player 10.0, or later

Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1 and Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1 support the following additional subsystems:

- CICS Transaction Server, V3.1, or later
- IMS V9.1, or later

DB2 Automation Toolkit for z/OS the SAP Edition, V2.2 (5655-W74) requires:

- For the post-SMP/E product customization:
 - IBM Tools Base, V1.3 (FMID HTCZ110) (5655-V93), or later, a no-charge product at the latest maintenance level
- FEC 1.3 (FMID H25F132) with maintenance applied up to and including PM44757
- In order to use the DB2 administrative task scheduler functionality, DB2 Automation Tool requires:
 - DB2 subsystems that must be configured to enable DB2 administrative task scheduler capabilities
 - RACF® that must be configured to allow PassTickets for the DB2 admin schedule task

DB2 QMF Classic Edition Value Unit Edition V10.1 (5697-P31) requirements: DB2 QMF Classic Edition VUE V10.1 is an optional feature of DB2 10 for z/OS Value Unit Edition, which requires the following:

- DB2 10 for z/OS Value Unit Edition V10.1 (5697-P31)
- GDDM V3R2

IMS Tools:

IMS Configuration Manager for z/OS V2.1 (5655-WR2) requires:

- In order to use the Graphical User Interface:
 - Windows XP Professional (32-bit) or Windows Vista (32-bit) or Windows 7 (32-bit) or Windows 7 (64-bit) operating system
- For providing common services and an Eclipse based front-end for improved usability:
 - IBM Tools Base for z/OS, V1.3 (5655-V93) with APAR PM61391.

IMS Connect Extensions for z/OS, V2.3 (5655-S56) and IMS Performance Solution Pack for z/OS, V1.2 (5655-S42) require:

- In order to use the IMS Connect Extensions Operations Console, the following is required:
 - Windows XP Professional (32-bit), or Windows Vista (32-bit), or Windows 7 32-bit) or Windows 7 (64-bit) operating system
- For providing common services and an Eclipse based front-end for improved usability:

- IBM Tools Base for z/OS, V1.3 (5655-V93) with APAR PM61391

IMS Performance Analyzer for z/OS, V4.3 (5655-R03) requires:

- IMS Connect Extensions for z/OS, V2.2 (5655-S56), or later, for running IMS Connect reports
- IBM Tools Base for z/OS, V1.3 (5655-V93) for offloading IMS Log reports to the IMS Tools Knowledge Base repository
- IBM Tivoli OMEGAMON XE for IMS on z/OS, V4.2 (5698-A34), or later, for collecting OMEGAMON TRF data or OMEGAMON ATF data
- IBM CICS Performance Analyzer for z/OS, V3.2 (5655-U87), or later, for measuring CICS-DBCTL transaction performance and IMS-related activity

IMS Performance Solution Pack for z/OS, V1.2 (5655-S42) requires:

- 5655-S56 IBM IMS Connect Extensions for z/OS, V2.2, or later, for:
 - Running IMS Connect reports
 - Collecting IMS Connect event data
- The IMS Connect Extensions Operations Console requires:
 - Windows XP Professional (32-bit) or Windows Vista (32-bit) or Windows 7 (32-bit) or Windows 7 (64-bit) operating system
- 5655-V93 IBM Tools Base for z/OS, V1.3 for:
 - Providing common services and an Eclipse based front-end for improved usability
 - Offloading IMS Log reports to the IMS Tools Knowledge Base repository
- IBM Tivoli OMEGAMON XE for IMS on z/OS, V4.2 (5698-A34), or later, for collecting OMEGAMON TRF data or OMEGAMON ATF data
- IBM CICS Performance Analyzer for z/OS, V3.2 (5655-U87), or later, for measuring CICS-DBCTL transaction performance and IMS-related activity
- IBM IMS Performance Analyzer for z/OS, V4.2 (5655-R03), or later, for creating the Transaction Index

IMS Problem Investigator for z/OS, V2.3 (5655-R02) requires:

- IMS Connect Extensions for z/OS, V2.2 (5655-S56), or later, for collecting IMS Connect event data
- IMS Performance Analyzer for z/OS, V4.2 (5655-R03), or later, for creating the Transaction Index
- Tivoli OMEGAMON XE for IMS on z/OS, V4.2 (5698-A34), or later, for collecting OMEGAMON TRF data or OMEGAMON ATF data

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

Limitations

For additional information, refer to usage restrictions in the [Terms and conditions](#) section of this announcement, or to the License Information document that is available on the IBM Software License Agreement website

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

User group requirements

This announcement satisfies or partially satisfies requirements from one or more of the worldwide user group communities. Groups include COMMON, COMMON Europe,

Guide Share Europe (GSE), InterAction (Australia/New Zealand), Japan Guide Share (JGS), and SHARE Inc.

IBM DB2 Recovery Expert for z/OS, V3.1.0 (5655-W78) satisfies the following requirements:

MR0223113641

Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1 (5655-W37) satisfies the following requirements:

MR0913105620	MR0127103805	MR0223096118
MR0713104545		
MR0211082152	MR051410587	MR0927106232
MR0825084915	MR0414116032	MR101209618
MR1208106136	MR082109581	MR0327093428
MR0608076044	MR1203073633	MR0905084910
MR090707304		

Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1 (5655-W37) satisfies the following requirements:

MR0913105620	MR0127103805	MR0223096118
MR0713104545		
MR0211082152	MR051410587	MR0927106232
MR0825084915	MR0414116032	MR101209618
MR1208106136	MR082109581	MR0327093428
MR0608076044	MR1203073633	MR0905084910
MR090707304		

IMS Configuration Manager for z/OS, V2.1 (5655-WR2) satisfies the following requirements:

MR0618106523 MR0927062010

IMS Connect Extensions for z/OS, V2.3 (5655-S56) satisfies the following requirements:

MR0916113033 MR1116106512

IMS Performance Analyzer for z/OS, V4.3 (5655-R03) satisfies the following requirements:

MR1023096714 MR0715106233

IMS Performance Solution Pack for z/OS, V1.2 (5655-S42) satisfies the following requirements:

MR0715106233

IMS Problem Investigator for z/OS, V2.3 (5655-R02) satisfies the following requirements:

MR1027105211

Planning information

Packaging

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

- Basic machine-readable material
- Program Directory
- IBM International Program License Agreement (IPLA)

Security, auditability, and control

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.

Ordering information

Charge metric

Program name	PID number	Charge metric
DB2 Accessories Suite for z/OS, V2.2.0	5697-Q02	Install(s)
DB2 Recovery Expert for z/OS, V3.1.0	5655-W78	Value Unit
DB2 Buffer Pool Analyzer for z/OS, V5.1.1	5655-W35	Value Unit
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1	5655-W37	Value Unit
Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1	5655-W38	Value Unit
DB2 Automation Toolkit for z/OS the SAP Edition, V2.2.0	5655-W74	Value Unit
DB2 QMF 10 Classic Edition Value Unit Edition, a feature of DB2 10 for z/OS VUE	5697-P31	Value Unit
IMS Configuration Manager for z/OS, V2.1.0	5655-WR2	Value Unit
IMS Connect Extensions for z/OS, V2.3.0	5655-S56	Value Unit
IMS Performance Analyzer for z/OS, V4.3.0	5655-R03	Value Unit
IMS Performance Solution Pack for z/OS, V1.2.0	5655-S42	Value Unit
IMS Problem Investigator for z/OS, V2.3.0	5655-R02	Value Unit

The following programs have Value Unit-Based pricing.

Program number	Program name	Value Unit exhibit
5655-W78	DB2 Recovery Expert for z/OS, V3.1	VUE007
5655-W35	DB2 Buffer Pool Analyzer for z/OS, V2.1	VUE007
5655-W37	Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1	VUE007
5655-W38	Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1	VUE007
5655-W74	DB2 Automation Toolkit for z/OS the SAP Edition, V2.2	VUE007
5697-P31	QMF Classic Edition Value Unit Edition, V10.1, a feature of DB2 10 for z/OS VUE	VUE001
5655-WR2	IMS Configuration Manager for z/OS, V2.1	VUE007
5655-S56	IMS Connect Extensions for z/OS, V2.3	VUE007
5655-R03	IMS Performance Analyzer for z/OS, V4.3	VUE007
5655-S42	IMS Performance Solution	VUE007

5655-R02 IMS Problem Investigator VUE007
for z/OS, V2.3

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

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

Value Unit exhibit VUE001

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

Value Units for mainframes without MSU ratings:

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

Value Unit exhibit VUE007

	MSUs		Value Units/MSU
	minimum	maximum	
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	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 System z IPLA product, the applicable Value Units would be:

Translation from MSUs to Value Units

	MSUS	*	Value Units/MSU	=	Value Units
Base	3	*	1.00	=	3.00
Tier A	42	*	.45	=	18.90
Tier B	130	*	.36	=	46.80
Tier C	140	*	.27	=	37.80
Tier 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.

Example: In the above ordering example, for the product running on a machine with 1,500 MSUs requiring 344 Value Units, order feature number G4FG, quantity 94, and feature number G4FH, quantity 1.

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

Translation from MSUs to value Units example using VUE001

	MSUS	Value Units/MSU
Base	1-3	5.25
Tier A	4-45	.83
Tier B	46-175	.35
Tier C	176-315	.26
Tier D	316+	.20

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

Ordering example

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

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

Translation from MSUs to Value Units (VUE001)

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

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

Example:

	Value Unit	Feature number
1	Value Unit	A1AA
250	Value Units	A1AB

Example: For a product running on machines with 1,000 MSUs requiring 270 Value Units, order feature number A1AA, quantity 20, and feature number A1AB, quantity 1.

Note: For actual feature numbers, refer to the information below.

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

MP3000 models
 H30 = 21.00 Value Units per machine
 H50 = 22.00 Value Units per machine
 H70 = 26.00 Value Units per machine
 ESL models = 9.00 Value Units per machine

Basic license

On/Off CoD

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

Translation from MSUs to Value Units

	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.

Program Name: IBM DB2 Accessories Suite for z/OS, v2.2.0
 Program PID: 5697-Q02

Entitlement identifier	Description	License option / Pricing metric
S01665L	DB2 Accessories Suite V10	No charge, unlimited installs

Orderable supply ID	Language	Distribution medium
S016627	US English	3590 Tape Cartridge

Entitlement identifier	Description	License option / Pricing metric
S01665M	DB2 Accessories Suite V9	No charge, unlimited installs

Orderable supply ID	Language	Distribution medium
S016629	US English	3590 Tape Cartridge

Entitlement identifier	Description	License option / Pricing metric
S0170JK	SPSS Modeler Server DB2 on z/OS	No charge, unlimited installs

Orderable supply ID	Language	Distribution medium
S0170JJ	US English	3590 Tape Cartridge

Program Name: IBM DB2 Recovery Expert for z/OS, v3.1.0
 Program PID: 5655-W78

Entitlement identifier	Description	License option / Pricing metric
S016XWG	DB2 Recovery Expert V3	Basic OTC, Value Units Basic OTC, Per MSU-day

TUC

Orderable supply ID	Language	Distribution medium
S016XWJ	US English	3590 Tape Cartridge

Program Name: IBM DB2 Buffer Pool Analyzer for z/OS, V5.1.1
Program PID: 5655-W35

Entitlement identifier	Description	License option / Pricing metric
S016GL6	DB2 Buffer Pool Analyzer V5	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S016K5H	US English	3590 Tape Cartridge

Program Name: IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1
Program PID: 5655-W37

Entitlement identifier	Description	License option / Pricing metric
S016K5T	OMEGAMON XE for DB2 PE V5 V5	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S016K5L	Japanese-Kanji	3590 Tape Cartridge
S016K5K	US English	3590 Tape Cartridge

Program Name: IBM Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1
Program PID: 5655-W38

Entitlement identifier	Description	License option / Pricing metric
S016K5X	OMEGAMON XE for DB2 PM V5 V5	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S016K5N	Japanese-Kanji	3590 Tape Cartridge
S016K5P	US English	3590 Tape Cartridge

Program Name: IBM DB2 Automation Toolkit for z/OS the SAP Edition, V2.2.0
Program PID: 5655-W74

Entitlement identifier	Description	License option / Pricing metric
S016N5R	DB2 Automation Toolkit V2	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S016NK6	US English	3590 Tape Cartridge

Program Name: IBM DB2 QMF Classic Edition Value Unit Edition,
V10.1, a feature of DB2 10 for z/OS VUE
Program PID: 5697-P31

Entitlement Identifier	Description	License Option / Pricing Metric
S01707H	QMF Classic Edition V10 VUE	Basic OTC, Value Units Basic OTC, Per MSU-day TUC
Orderable Supply ID	Language	Distribution Medium
S01707K	US English	3590 Tape Cartridge
S0170DM	Multilingual	3590 Tape Cartridge

Program Name: IBM IMS Configuration Manager for z/OS, V2.1.0
Program PID: 5655-WR2

Entitlement identifier	Description	License option / Pricing metric
S017078	IMS Configuration Manager V2	Basic OTC, Value Units Basic OTC, Per MSU-day TUC
Orderable supply ID	Language	Distribution medium
S017079	US English	3590 Tape Cartridge

Program Name: IBM IMS Connect Extensions for z/OS, V2.3.0
Program PID: 5655-S56

Entitlement identifier	Description	License option / Pricing metric
S013T37	IMS Connect Extensions V2	Basic OTC, Value Units Basic OTC, Per MSU-day TUC
Orderable supply ID	Language	Distribution medium
S0166BK	US English	3590 Tape Cartridge

Program Name: IBM IMS Performance Analyzer for z/OS, V4.3.0
Program PID: 5655-R03

Entitlement identifier	Description	License option / Pricing metric
S012H7K	IMS Performance Analyzer V4	Basic OTC, Value Units Basic OTC, Per MSU-day TUC
Orderable supply ID	Language	Distribution medium
S01664B	US English	3590 Tape Cartridge

Program Name: IBM IMS Performance Solution Pack for z/OS, v1.2.0
Program PID: 5655-S42

Entitlement identifier	Description	License option / Pricing metric
S015TXZ	IMS Perf Solution Pack V1	Basic OTC, Value Units Basic OTC, Per MSU-day TUC
Orderable supply ID	Language	Distribution medium
S015TXX	US English	3590 Tape Cartridge

Program Name: IBM IMS Problem Investigator for z/OS, V2.3.0
Program PID: 5655-R02

Entitlement identifier	Description	License option / Pricing metric
S012H7D	IMS Problem Investigator V2	Basic OTC, Value Units Basic OTC, Per MSU-day TUC
Orderable supply ID	Language	Distribution medium
S015S94	US English	3590 Tape Cartridge

Subscription and Support PID: 5655-R30

Entitlement identifier	Description	License options/Pricing metrics
S016G8X	DB2 Accessories Suite V10 S&S	No Charge Unlimited Installs S&S
Orderable supply ID	Language	Distribution medium
S016G90	English	Hardcopy publication

Entitlement identifier	Description	License options/Pricing metrics
S013JXJ	DB2 Accessories Suite V9 S&S	No Charge Unlimited Installs S&S
Orderable supply ID	Language	Distribution medium
S013JV5	English	Hardcopy publication

Entitlement identifier	Description	License options/Pricing metrics
S0170JN	SPSS Mod Serv DB2 on z/OS S&S	No Charge Unlimited Installs S&S
Orderable supply ID	Language	Distribution medium
S0170JM	English	Hardcopy publication

Subscription and Support PID: 5697-N47

Entitlement identifier	Description	License options/Pricing metrics
S012CMZ	DB2 Recovery Expert S&S	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration

Orderable supply ID	Language	Distribution medium
S012CN0	English	Hardcopy publication

Subscription and Support PID: 5655-E55

Entitlement Identifier	Description	License Options/Pricing Metrics
S00VZFD	DB2 Buffer Pool Analyzer S&S	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration

Orderable Supply ID	Language	Distribution Medium
S00VZFF	English	Hardcopy publication

Subscription and Support PID: 5655-R07

Entitlement Identifier	Description	License Options/Pricing Metrics
S0122MR	OMEGAMON XE for DB2 PE S&S	Basic ASC, per Value Unit SW S&S No Charge, decline SW S&S Per MSU SW S&S Registration

Orderable Supply ID	Language	Distribution Medium
S012BNK S0122MS	Japanese-Kanji US English	Hardcopy publication Hardcopy publication

Subscription and Support PID: 5655-R08

Entitlement Identifier	Description	License Options/Pricing Metrics
S0122MV	OMEGAMON XE for DB2 PM S&S	Basic ASC, per Value Unit SW S&S No Charge, decline SW S&S Per MSU SW S&S Registration

Orderable Supply ID	Language	Distribution Medium
S012BNJ S0122MW	Japanese-Kanji US English	Hardcopy publication

Subscription and Support PID: 5697-N31

Entitlement Identifier	Description	License Options/Pricing Metrics
S011VVX	DB2 Auto Toolkit SAP Ed S&S	Basic ASC, per Value Unit SW S&S No Charge, decline SW S&S Per MSU SW S&S Registration

Orderable Supply ID	Language	Distribution Medium
S011VVZ	US English	Hardcopy publication

Subscription and Support PID: 5697-P11

Entitlement Identifier	Description	License Options/Pricing Metrics
S0170DS	QMF Classic Ed V10 VUE S&S	Basic ASC, per Value Unit SW S&S No Charge, decline SW S&S Per MSU SW S&S Registration
Orderable Supply ID	Language	Distribution Medium
S0170DR	US English	Hardcopy publication

Subscription and Support PID: 5655-L70

Entitlement Identifier	Description	License Options/Pricing Metrics
S010PJV	IMS Config Manager S&S	Basic ASC, per Value Unit SW S&S No Charge, decline SW S&S Per MSU SW S&S Registration
Orderable Supply ID	Language	Distribution Medium
S0118BJ	US English	Hardcopy publication

Subscription and Support PID: 5655-K49

Entitlement Identifier	Description	License Options/Pricing Metrics
S00XT3K	IMS Connect Extensions S&S	Basic ASC, per Value Unit SW S&S No Charge, decline SW S&S Per MSU SW S&S Registration
Orderable Supply ID	Language	Distribution Medium
S00XT3L	US English	Hardcopy publication

Subscription and Support PID: 5655-E18

Entitlement Identifier	Description	License Options/Pricing Metrics
S00V79W	IMS Performance Analyzer S&S	Basic ASC, per Value Unit SW S&S No Charge, decline SW S&S Per MSU SW S&S Registration
Orderable Supply ID	Language	Distribution Medium
S00TH75	US English	Hardcopy publication

Subscription and Support PID: 5655-S43

Entitlement Identifier	Description	License Options/Pricing Metrics
S015W6V	IMS Perf Solution Pack S&S	Basic ASC, per Value Unit SW S&S No Charge, decline SW S&S Per MSU SW S&S Registration
Orderable Supply ID	Language	Distribution Medium
S015TZ1	US English	Hardcopy publication

Subscription and Support PID: 5655-K51

Entitlement Identifier	Description	License Options/Pricing Metrics
S00XT34	IMS Problem Investigator S&S	Basic ASC, per Value Unit SW S&S No Charge, decline SW S&S Per MSU SW S&S Registration
Orderable Supply ID	Language	Distribution Medium
S00XT35	US English	Hardcopy publication

Subscription and Support

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

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

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

- Includes and extends the support services provided in the base support to include technical support via telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

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

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

Subscription and Support for IMS Tools Solution Packs

Customers who license IMS Solution Packs, and who have previously separately licensed one or more of the component products included in a Solution Pack, should discontinue subscription and support for the previously licensed component products. For additional information about IMS Solution Packs and their component products, refer to Software Announcement [AP10-0029](#), dated February 09, 2010.

Withdrawal from Marketing (WFM) Information

A new product release within a version supersedes the release level that precedes it. Accordingly, the following product releases will be withdrawn from marketing, effective on the date the new release becomes available.

Releases to be withdrawn from marketing effective May 25, 2012

Name of product being withdrawn	Ver	Rel	Mod	Product number
IBM IMS Connect Extensions for z/OS	2	2	0	5655-S56
IBM IMS Performance Analyzer for z/OS	4	2	0	5655-R03
IBM IMS Problem Investigator for z/OS	2	2	0	5655-R02

Replacement information:

- IBM IMS Connect Extensions for z/OS V2.2.0 (5655-S56) is replaced by IBM IMS Connect Extensions for z/OS V2.3.0 (5655-S56).
- IBM IMS Performance Analyzer for z/OS V4.2.0 (5655-R03) is replaced by IBM IMS Performance Analyzer for z/OS V4.3.0 (5655-R03), IBM IMS Problem Investigator for z/OS V2.2.0 (5655-R02), is replaced by IBM IMS Problem Investigator for z/OS V2.3.0 (5655-R02) as announced in this announcement.

Releases to be withdrawn from marketing effective June 15, 2012

Name of product being withdrawn	Ver	Rel	Mod	Product number
IBM DB2 Accessories Suite for z/OS	2	1	0	5697-Q02
IBM DB2 Buffer Pool Analyzer for z/OS	5	1	0	5655-W35
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS	5	1	0	5655-W37
Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS	5	1	0	5655-W38
IBM DB2 Automation Toolkit for z/OS the SAP Edition	2	1	0	5655-W74
IBM IMS Performance Solution Pack for z/OS	1	1	0	5655-S42

Replacement information:

- IBM DB2 Accessories Suite for z/OS V2.1.0 (5697-Q02) is replaced by IBM DB2 Accessories Suite for z/OS V2.2.0 (5697-Q02).
- IBM DB2 Buffer Pool Analyzer for z/OS V5.1.0 (5655-W35) is replaced by IBM DB2 Buffer Pool Analyzer for z/OS V5.1.1 (5655-W35).
- Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V5.1.0 (5655-W37) is replaced by Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS V5.1.1,
- Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V5.1.0 (5655-W38) is replaced by Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS V5.1.1.
- IBM DB2 Automation Toolkit for z/OS the SAP Edition V2.1.0 is replaced by IBM DB2 Automation Toolkit for z/OS the SAP Edition V2.1.1,
- IBM IMS Performance Solution Pack for z/OS V1.1.0 (5655-S42) is replaced by IBM IMS Performance Solution Pack for z/OS, V1.2.0, as announced in this announcement.

Single version charging

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

Customized Offerings

Product deliverables are shipped only via CBPDO, ServerPac, SystemPac®.

CBPDO and ServerPac are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the ShopzSeries help information at

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

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

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. z/OS can be ordered via all three offerings at general availability. Production of software product orders will begin on the planned general availability date.

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

Terms and conditions

The information provided in this announcement letter is for reference and convenience purposes only. The terms and conditions that govern any transaction with IBM are contained in the applicable contract documents such as the IBM International Program License Agreement, IBM International Passport Advantage® Agreement, and the IBM Agreement for Acquisition of Software Maintenance.

Licensing

IBM International Program License Agreement including the License Information document and Proof of Entitlement (PoE) govern your use of the program. PoEs are required for all authorized use.

Agreement for Acquisition of Software Maintenance

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

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

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

License Information form number

Program name	Program number	License Information
DB2 Accessories Suite for z/OS, V2.2	5697-Q02	
DB2 Accessories Suite V10 feature		GC19-3029
DB2 Accessories Suite V9 feature		GC19-3727
SPSS Modeler Server Scoring Adapter feature		GC19-3721
DB2 Recovery Expert for z/OS, V3.1	5655-W78	GC19-3685
DB2 Buffer Pool Analyzer for z/OS, V5.1.1	5655-W35	GH12-6974
Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1	5655-W37	GH12-6971
Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1	5655-W38	GH12-6972
DB2 Automation Toolkit for z/OS the SAP Edition, V2.2	5655-W74	GC19-3245
DB2 QMF Classic Edition Value Unit Edition, V10.1, a feature of IBM DB2 10 for z/OS VUE	5697-P31	GC19-3718

IMS Configuration Manager for z/OS, V2.1	5655-WR2	GC19-3229
IMS Connect Extensions for z/OS, V2.3	5655-W38	GC19-1164
IMS Performance Analyzer for z/OS, V4.3	5655-R03	GC18-9777
IMS Performance Solution Pack for z/OS, V1.2	5655-S42	GC19-2901
IMS Problem Investigator for z/OS, V2.3	5655-R02	GC18-9780

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

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

Limited warranty applies

Yes

Limited warranty

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

IBM provides you with access to IBM databases containing information on known program defects, defect corrections, restrictions, and bypasses at no additional charge. For further information, consult the IBM Software Support Handbook found at

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

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

Program support

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

Money-back guarantee

If for any reason you are dissatisfied with the program and you are the original licensee, you may obtain a refund of the amount you paid for it, if within 30 days of your invoice date you return the program and its PoE to the party from whom you obtained it. If you downloaded the program, you may contact the party from whom you acquired it for instructions on how to obtain the refund.

For clarification, note that for programs acquired under any of IBM's On/Off Capacity on Demand (On/Off CoD) software offerings, this term does not apply since these offerings apply to programs already acquired and in use by you.

Volume orders (IVO)

No

Passport Advantage applies

No

Software Subscription and Support 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 Software Subscription and Support (Software Maintenance) offering.

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

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

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

15% to qualified educational institution customers.

Products eligible for single version charging

Replaced program		Replacement program	
Program number	Program name	Program number	Program name
5798-CHJ	IMS Monitor Summary and Systems Analysis Program (IMSPARS)	5655-R03	IMS Performance Analyzer for z/OS, v4.3
5798-CQP	IMS Performance Analysis and Reporting (IMSPARS)	5655-R03	IMS Performance Analyzer for z/OS, v4.3
5697-B89	IMS Performance Analyzer, v1	5655-R03	IMS Performance Analyzer for z/OS, v4.3
5697-F02	IMS Performance Analyzer, v2	5655-R03	IMS Performance Analyzer for z/OS, v4.3
5798-CHJ	IMS Monitor Summary and Systems Analysis Program (IMSASAP)	5655-S42	IMS Performance Solution Pack for z/OS, v1.2
5798-CQP	IMS Performance Analysis and Reporting (IMSPARS)	5655-S42	IMS Performance Solution Pack for z/OS, v1.2
5697-B89	IMS Performance Analyzer, v1	5655-S42	IMS Performance Solution Pack for z/OS, v1.2
5697-F02	IMS Performance Analyzer, v2	5655-S42	IMS Performance Solution Pack for z/OS, v1.2

Sub-capacity terms and conditions

For each System z IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the

required license capacity. Your required license capacity is based upon the following factors:

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

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

Program number	Program name	Terms	Parents - any of the following
5697-Q02	DB2 Accessories suite for z/OS, V2.2	Full machine-based	DB2 V9 (5635-DB2) DB2 V9 VUE (5697-P12) DB2 V10 (5605-DB2) DB2 V10 VUE (5697-P31)
5655-w78	DB2 Recovery Expert for z/OS, V3.1	Reference-based	DB2 V9 (5635-DB2) DB2 V9 VUE (5697-P12) DB2 V10 (5605-DB2) DB2 V10 VUE (5697-P31)
5655-w35	DB2 Buffer Pool Analyzer for z/OS, V5.1.1	Reference-based	DB2 V9 (5635-DB2) DB2 V9 VUE (5697-P12) DB2 V10 (5605-DB2) DB2 V10 VUE (5697-P31)
5655-w37	Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS, V5.1.1	Reference-based	DB2 V9 (5635-DB2) DB2 V9 VUE (5697-P12) DB2 10 (5605-DB2) DB2 V10 VUE (5697-P31)
5655-w38	Tivoli OMEGAMON XE for DB2 Performance Monitor on z/OS, V5.1.1	Reference-based	DB2 V9 (5635-DB2) DB2 V9 VUE (5697-P12) DB2 V10 (5605-DB2) DB2 V10 VUE (5697-P31)
5655-w74	DB2 Automation Toolkit for z/OS the SAP Edition, V2.2	Full-machine based	DB2 V9 (5635-DB2) DB2 V9 VUE (5697-P12) DB2 V10 (5605-DB2) DB2 V10 VUE (5697-P31)
5697-P31	DB2 QMF Classic Edition VUE, V10.1, feature of DB2 10 for z/OS VUE	Execution-based	DB2 V10 VUE (5697-P31)
5655-WR2	IMS Configuration Manager for z/OS, V2.1	Reference-based	IMS V10 (5635-A01) IMS V11 (5635-A02) IMS V12 (5635-A03)
5655-S56	IMS Connect Extensions for z/OS, V2.3	Reference-based	IMS V10 (5635-A01) IMS V11 (5635-A02) IMS V12 (5635-A03)
5655-R03	IMS Performance Analyzer for z/OS, V4.3	Reference-based	IMS V10 (5635-A01) IMS V11 (5635-A02) IMS V12 (5635-A03)
5655-S42	IMS Performance Solution Pack for z/OS, V1.2	Reference-based	IMS V10 (5635-A01) IMS V11 (5635-A02) IMS V12 (5635-A03)
5655-R02	IMS Problem Investigator for z/OS, V2.3	Reference-based	IMS V10 (5635-A01) IMS V11 (5635-A02) IMS V12 (5635-A03)

In cases where full capacity is applicable, the following terms apply.

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

For more information on mainframe MSU-rated capacities, visit

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

Reference based: The required license capacity of a System z 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 System z IPLA sub-capacity program with these terms equals the capacity of the LPARs where the System z IPLA program executes.

z/OS based: The required license capacity of a System z IPLA program with these terms equals the license capacity of z/OS on the machines where the System z IPLA program executes.

Reference based: The required license capacity of a System z 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 System z IPLA program with full machine based terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

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

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

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

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

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

- Where MLC pricing is aggregated across the sysplex

Sub-capacity eligibility

To be eligible for sub-capacity charging on select System z 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 System z (or equivalent). On that machine:

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

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

<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 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 IBM System z 890 and 800 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 System z Programs Sub-Capacity Pricing* (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

Sub-capacity utilization determination

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

On/Off Capacity on Demand (CoD)

To be eligible for On/Off CoD pricing, you must be enabled for temporary capacity on the corresponding hardware, and the required contract, Attachment for IBM System z On/Off Capacity on Demand (Z125-7883) must be signed prior to use.

Statement of good security practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

Prices

For all local charges, contact your IBM representative.

Subscription and Support

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

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

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

- Includes and extends the support services provided in the base support to include technical support via telephone
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products

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

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

Subscription and Support for IMS Tools Solution Packs

Customers who license IMS Solution Packs, and who have previously separately licensed one or more of the component products included in a Solution Pack, should discontinue subscription and support for the previously licensed component products. For additional information about IMS Solution Packs and their component products, refer to Software Announcement [AP10-0029](#), dated February 09, 2010 and Software Announcement [AP11-0368](#), dated October 11, 2011.

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