



# IBM DB2 and IMS Tools enhancements help improve management of your DB2 and IMS environments

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## At a glance

IBM® delivers new and enhanced DB2® and IMS™ tools:

- IBM DB2 Performance Solution Pack for z/OS®, V1.1 provides integrated performance management capabilities for DB2 for z/OS .
- IBM IMS Cloning Tool for z/OS , V1.2 can help you increase DBA productivity and application availability.
- IBM IMS Online Reorganization Facility for z/OS , V1.3 enhances the administration management of your IMS environments.
- New trade-up options for the four previously announced IMS Solution Packs make it easy to get all utilities, features, and function you need to effectively manage your IMS environment. The four IMS Tools Solution Packs are:
  - IBM IMS Database Solution Pack for z/OS , V1.2
  - IBM IMS Fast Path Solution Pack for z/OS , V1.2
  - IBM IMS Performance Solution Pack for z/OS , V1.2
  - IBM IMS Recovery Solution Pack for z/OS , V1.1

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: LE001).

## Overview

**IBM DB2 Performance Solution Pack for z/OS , V1.1** delivers integrated performance management capabilities for DB2 for z/OS by combining the functionality from the following:

- IBM Tivoli® OMEGAMON® XE for IBM DB2 Performance Expert on z/OS , V5.1.1
- IBM DB2 Query Monitor for z/OS , V3.1
- IBM DB2 SQL Performance Analyzer for z/OS , V4.1
- IBM InfoSphere® Optim™ Query Workload Tuner for DB2 for z/OS , V3.2

Trade-up options for DB2 Performance Solution Pack for z/OS , V1.1 are available. The following list includes the options of eligible products, or eligible combinations of products, that can be traded in when trading up to the Solution Pack.

- Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS (5655-W37)
- Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS (5655-W37) and DB2 Query Monitor for z/OS (5655-V42)

- Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS (5655-W37) and DB2 Query Monitor for z/OS (5655-V42) and DB2 SQL Performance Analyzer for z/OS (5655-W60)
- Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS (5655-W37) and DB2 SQL Performance Analyzer for z/OS (5655-W60)
- DB2 Query Monitor for z/OS (5655-V42)
- DB2 Query Monitor for z/OS (5655-V42) and DB2 SQL Performance Analyzer for z/OS (5655-W60)
- DB2 SQL Performance Analyzer for z/OS (5655-W60)
- InfoSphere Optim Query Workload Tuner for DB2 for z/OS (5655-W94)

**IBM IMS Cloning Tool for z/OS , V1.2** provides a faster, simpler cloning solution that can help improve productivity and supports efforts to reduce total cost. It automates the cloning process to provide usable IMS clones within minutes, helping to boost efficiency and to free up DBA time. By employing fast copy technology combined with automation and by eliminating manual efforts, this tool can help you increase productivity and reduce online downtime and the costs associated with cloning an IMS subsystem or refreshing databases.

**IBM IMS Online Reorganization Facility for z/OS , V1.3** lets you schedule when you want to reorganize online databases by predefining an online reorganization window, which can save DBA resources, CPU time, and increase database availability. The product provides all of the necessary reorganization procedures (unload, reload, prefix resolution, prefix update, secondary index building, and image copy) in a single step. It also provides optional pointer checking and ACB or DMB replacements.

### **IBM IMS Tools Solution Packs trade-up options**

The following four IMS Tools Solution Packs are now available with trade-up options, offering an even easier way to obtain all the utilities, features, and functions needed to effectively manage your IMS environment:

- IBM IMS Database Solution Pack for z/OS offers features, functions, and processes that DBAs can use to more effectively analyze, maintain, and tune IMS full-function databases, including High Availability Large Databases (HALDBs). It provides a comprehensive set of high-performance utilities to unload, load, index build, reorganize, back up, verify, and report on full-function databases and can help reduce the operational complexity and the impact of database reorganization on system resources.
- IBM IMS Fast Path Solution Pack for z/OS delivers extensive utilities that include functions a database administrator can use to analyze, maintain, and tune IMS Fast Path databases. Included are features that can help boost system availability by enabling the operations of a variety of key functions without taking the IMS database offline.
- IBM IMS Performance Solution Pack for z/OS delivers a more affordable, comprehensive portfolio of IBM database performance management tools. The product combines the features and functions of IBM IMS Connect Extensions for z/OS , IBM IMS Performance Analyzer for z/OS , and IBM IMS Problem Investigator for z/OS . The three products are tightly integrated, making the end-to-end analysis of IMS transactions faster and easier than ever, and better able to support improved productivity for problem analysts, improved IMS application performance, more efficient IMS resource utilization, and higher system availability.
- IBM IMS Recovery Solution Pack for z/OS combines features, functions, and processes to support efforts to implement "best practices" backup and recovery scenarios. This product combines the features and functions previously available separately in the following programs: IBM IMS Recovery Expert for z/OS , V1, IBM IMS Database Recovery Facility for z/OS , and IBM IMS High Performance Change Accumulation Utility for z/OS . Additionally, it includes all the features and functions of IBM's separately available IBM IMS Index Builder for z/OS , and IBM IMS High Performance Image Copy for z/OS . Virtually everything necessary to enable timely recovery of IMS DB assets is provided with IMS Recovery Solution Pack.

The following list includes, for each IMS Tools Solution Pack, products eligible to be traded in when trading up to an IMS Tools Solution Pack.

- IMS Database Solution Pack trade-up options include:
  - IBM IMS Database Reorganization Expert for z/OS , V4.1 (5655-S35)
  - IBM IMS High Performance Image Copy for z/OS , V4.2 (5655-N45)
  - IBM IMS High Performance Load for z/OS , V2.1 (5655-M26)
  - IBM IMS High Performance Pointer Checker for z/OS , V3.1 (5655-U09)
  - IBM IMS High Performance Prefix Resolution for z/OS , V3.1 (5655-M27)
  - IBM IMS High Performance Unload for z/OS , V1.2 (5655-E06)
  - IBM IMS Library Integrity Utilities for z/OS , V2.1 (5655-U08)
  - IBM IMS Index Builder for z/OS , V3.1 (5655-R01)
- IMS Fast Path Solution Pack trade-up options include:
  - IBM IMS Database Repair Facility for z/OS , V1.2 (5655-E03)
  - IBM IMS High Performance Fast Path Utilities for z/OS , V3.2 (5655-R05)
  - IBM IMS High Performance Image Copy for z/OS , V4.2 (5655-N45)
  - IBM IMS Library Integrity Utilities for z/OS , V2.1 (5655-U08)
- IMS Performance Solution Pack trade-up options include:
  - IBM IMS Connect Extensions for z/OS , V2.3 (5655-S56)
  - IBM IMS Performance Analyzer for z/OS , V4.3 (5655-R03)
  - IBM IMS Problem Investigator for z/OS , V2.3 (5655-R02)
- IMS Recovery Solution Pack trade-up options include:
  - IBM IMS Database Recovery Facility for z/OS , V3.1 (5655-N47)
  - IBM IMS High Performance Change Accumulation Utility for z/OS , V1.4 (5655-F59)
  - IBM IMS High Performance Image Copy for z/OS , V4.2 (5655-N45)
  - IBM IMS Index Builder for z/OS , V3.1 (5655-R01)

For a complete list of eligible products and eligible product combinations refer to the [Ordering information](#) section.

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## Key prerequisites

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The products in this announcement will operate on any IBM System z® hardware configuration that supports the required versions of z/OS , DB2 , and IMS . Refer to the [Hardware requirements](#) and [Software requirements](#) sections for details.

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## Planned availability date

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- February 15, 2013
  - Trade-up options for:
    - IMS Database Solution Pack for z/OS , V1.2 (5655-S77)
    - IMS Fast Path Solution Pack for z/OS , V1.2 (5655-W14)
    - IMS Performance Solution Pack for z/OS , V1.2 (5655-S42)
    - IMS Recovery Solution Pack for z/OS , V1.1 (5655-V86)
- February 22, 2013
  - IMS Cloning Tool for z/OS , V1.2 (5655-U91)
  - IMS Online Reorganization Facility for z/OS , V1.3 (5655-H97)

- March 15, 2013
  - DB2 Performance Solution Pack for z/OS , V1.1 (5655-E74)

**Note:** The IMS Database Solution Pack, IMS Fast Path Solution Pack, IMS Performance Solution Pack, and IMS Recovery Solution Pack were previously announced.

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## Description

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**DB2 Performance Solution Pack for z/OS , V1.1 (5655-E74)** offers features, functions, and processes that DBAs can use to more effectively identify, diagnose, and solve performance challenges across DB2 for z/OS environments, as well as help prevent them from reoccurring in the future. Key integration features within individual products, such as in-context launching of other tools, direct data import/export and so on, allow users to maintain problem solving context as they move from one tool to the next to identify, diagnose, and solve performance management challenges.

The DB2 Performance Solution Pack for z/OS is composed of the following tools:

- Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS allows users to assess the efficiency of DB2 and optimize its performance, combining sophisticated response time tracking, reporting, monitoring, stored procedure, and buffer pool analysis features, as well as expert database analysis functions.
  - Provides end-to-end response-time measurement capability for heterogeneous applications accessing DB2 for z/OS data through SQL or stored procedures
  - Provides performance metrics about IBM DB2 Analytics Accelerator usage
  - Monitors, analyzes, and tunes the performance of DB2 subsystems
  - Improves productivity with robust views of performance
  - Identifies performance bottlenecks quickly and easily by using predefined rules
  - Provides substantial breadth and depth of monitoring DB2 environments by combining batch reporting capabilities with real-time monitoring and historical tracking functions
  - Supports an enterprise-wide integrated systems management strategy activated by the Tivoli OMEGAMON XE family
  - Stores performance data and analysis tools in a performance warehouse
- DB2 Query Monitor for z/OS enables users to identify problem SQL activity and provides robust statistics for SQL tuning. It can work in an integrated fashion with InfoSphere Optim Query Workload Tuner for DB2 for z/OS and DB2 SQL Performance Analyzer for z/OS to enable users to customize and tune the poorly performing SQL statement or workload and to ensure the effectiveness of DB2 subsystems and improve overall performance.
  - Monitors SQL activities and provides automatic alerts to exceptional events on a monitored DB2 subsystem in real time
  - Monitors DB2 commands, host variables, and SQL CA and SQL code in real time
  - Provides user-friendly ISPF, GUI, and web interfaces with SQL statistics of multiple DB2 subsystems
  - Integrates with other DB2 Tools to reduce resource consumption
  - Supports single sign-on for the ISPF view of data sharing group
- DB2 SQL Performance Analyzer for z/OS provides DBAs and application developers with the ability to do extensive analysis of SQL queries without executing them. This analysis aids users in tuning queries to achieve maximum performance. It can also reduce the escalating costs of database queries by estimating their cost prior to execution. Candidate queries can be passed from both DB2 Query Monitor for z/OS and Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS to facilitate the analysis of a problem query once identified.
  - Provides performance analysis and recommendations for DB2 plans, packages, DBRMs, and SQL without executing them

- Provides several interfaces: Batch, TSO, ISPF, and QMF™
- Offers "what-if" scenarios to help determine the performance for various database design alternatives
- Generates comprehensive and easy-to-use performance reports to assist in analysis
- Analyzes economic cost for each query statement
- Enhanced interface to DB2 Query Monitor for z/OS accepts either a DDNAME or a DSNNAME when SQL Performance Analyzer for z/OS is called
- InfoSphere Optim Query Workload Tuner for DB2 for z/OS empowers users to more efficiently manage performance by proactively optimizing the performance of SQL queries and query workloads. InfoSphere Optim Query Workload Tuner for DB2 for z/OS makes it easy to access candidate queries and define workloads from a number of common sources. It is integrated with other DB2 Tools, such as DB2 Query Monitor for z/OS and Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS to provide a more complete solution for monitoring and tuning SQL. This integration helps organizations reduce the risk of customer complaints, missed SLAs, and financial losses due to performance problems.
  - Analyzes SQL queries and workloads to proactively optimize physical database design and improve performance
  - Proactively solves query performance problems by enabling faster and deeper analysis of queries
  - Provides expert recommendations to maximize application performance while reducing specialized skill requirements
  - Reduces the total cost of ownership for DB2 for z/OS
  - Reduce CPU usage for statistics collection by collecting only what is needed to improve performance
  - Tunes queries holistically with integration with other DB2 performance tools

**IMS Cloning Tool for z/OS , V1.2 (5655-U91)** makes it easier to quickly clone IMS subsystems and refresh databases. By employing fast copy technology combined with automation, this tool can help you increase DBA productivity and application availability, while reducing the costs associated with cloning an IMS subsystem or refreshing databases.

Modern storage processing systems provide fast data replication and copying services that allow database data to be replicated instantly. IMS Cloning Tool for z/OS takes advantage of storage processor functions to replicate data on behalf of the database system more quickly. Valuable host CPU and I/O is saved by offloading the copy to the storage processor instead of z/OS . IMS Cloning Tool for z/OS then performs both the volume metadata and IMS metadata management to allow entire IMS subsystems to be cloned or specific IMS databases to be refreshed in just minutes.

IMS Cloning Tool for z/OS helps reduce the time required to create a clone from hours or even days to just minutes, thus boosting efficiency and freeing DBAs from performing time-consuming, multi-step tasks.

You can use IMS Cloning Tool for z/OS to perform the following tasks:

- Clone entire IMS subsystems or select databases, including HALDBs, more quickly and easily.
- Create read-only IMS environments for reporting or staging for data warehouse loading.
- Create IMS environments to help implement application or system maintenance.
- Create IMS environments to help migrate to new versions of IMS .
- Copy production data to create IMS application testing and quality assurance environments.
- Offload IMS Pointer Checker for z/OS executions to a copy of the production environment.
- Troubleshoot production problems by making a copy more quickly and then fixing the problem in development, thereby providing faster resolution.

IMS Cloning Tool for z/OS , V1.2 offers the following key features:

- ISPF User Interface
  - A full ISPF user interface that is task-oriented, contains comprehensive help panels, and can decrease the amount of time an end user spends on generating cloning processes.
  - This interface can be integrated with the IBM DB2 Cloning Tool for z/OS , V3.1 (5655-N15), if available, to provide a single interface to be used with both products.
- Subsystem Cloning Solution
  - Removes the requirement to have data replicated to the remote site when invoking FlashCopy® operations to a PPRC primary volume by supporting Remote Pair FlashCopy (Preserve Mirror)
  - Provides an option to invoke a slow copy when FASTPREP(PREF) is specified and no fast replication is available
  - Reduces the amount of data that needs to be copied by supporting Incremental FlashCopy
  - Eliminates the requirement for exact duplicate disk between source and target by providing support for Space Efficient FlashCopy
  - Automatically invokes TimeFinder/Clone Volume Snap for sites with EMC storage removing the requirement for additional jobs
  - Creates an instant point-in-time consistent copy, which can significantly reduce downtime by supporting IBM FlashCopy Consistency Group functionality and EMC Engenuity Consistency Assist
- Database Cloning Solution
  - Eliminates the requirement of having to take the database offline or produce a fuzzy copy by supporting the IMS Type-2 UPDATE DB QUIESCE command. The IMS UPDATE DB QUIESCE command provides consistency during the fast-replication copy without having to take the database offline.
  - Provides a consistent copy of the target data after a fuzzy copy operation, thereby maximizing availability. This option applies IMS logs records from the source database to the target database to bring the target database to a transactionally consistent state.
  - Provides data security anonymity through data masking. This allows fields containing sensitive or private data, such as credit cards numbers or names and addresses, to be masked when copied to the target databases.
  - Removes the requirement to define the target databases if they do not exist on the target system by dynamically defining new databases.
  - Automatically invokes TimeFinder/Snap data set for sites with EMC storage removing the requirement of additional jobs to refresh databases.
  - Automates cleanup of previously refreshed target IMS data sets. IMS Cloning Tool will keep track of data sets that were refreshed and build IDCAMS delete commands for them that can be executed by the user at the completion of their testing cycle to delete and uncatalog those data sets.
  - Adds flexibility when refreshing databases by providing an option to process remaining databases when an error is encountered. This feature may be useful in cases where a large number of databases are being refreshed and only a few databases may not be copied at that time.

**IMS Online Reorganization Facility for z/OS , V1.3 (5655-H97)** is a high-performance tool that reduces downtime from hours to seconds and increases database administration productivity and efficiency with a single-step reorganization process. The tool can implement changes automatically across all online systems without the need for manual intervention. The single-step reorganization process can be used for all full-function databases, greatly reducing the complexity of the JCL needed to perform the many reorganization process steps.

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

- Reorganize HISAM, SHISAM, HIDAM, HDAM, PHIDAM, and PHDAM databases

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

All features and functionality of the previous release are included in this release. Additionally, the following enhancements are offered:

- Support for very large multipartitioned databases with non-unique segment keys
- Enhanced RECON cleanup support after IMS shutdown during the image copy process under IMS Online Reorganization Facility for z/OS
- More specific reason code for ABEND U0999 when a job ends in an error
- Allow specification of selected partitions

### **IMS Tools Solution Packs**

**IMS Database Solution Pack for z/OS , V1.2 (5655-S77)** consists of eight IMS Tools that combined offers features, functions, and processes that DBAs can use to more effectively analyze, maintain, and tune IMS full-function databases, including High Availability Large Databases (HALDBs). IMS Database Solution Pack for z/OS complements and exploits the Autonomics Director and the Administration Console, both components of IBM Tools Base for z/OS , V1.3 (5655-V93).

With Autonomics Director, IMS Database Solution Pack for z/OS implements the automation of tools execution using detailed understanding of the current state of the IMS databases. Once an IMS database has been designed, implemented, and is in use, the IMS Database Solution Pack for z/OS uses the Autonomics Director to assist the DBA in identifying and performing the normal functions associated with maintaining the health, performance, and recoverability of the database. The capabilities of Administration Console are extended by providing detailed insight into the health and availability of full-function IMS databases through its web interface.

For more information regarding functions and features refer to Software Announcement [211-384](#), dated October 11, 2011 .

**IMS Fast Path Solution Pack for z/OS , V1.2 (5655-W14)** is a combination of IMS Tools that offer comprehensive utilities and functions that DBAs can use to analyze, maintain, and tune IMS Fast Path databases (DEDBs) and build and analyze Fast Path Secondary Index (FPSI) databases that are supported in IMS V12. Features are provided that can help boost system availability by enabling the operation of a variety of key functions without taking the IMS databases offline. Once an IMS DEDB has been designed, implemented, and is in use, the IMS Fast Path Solution Pack for z/OS uses the Autonomics Director to assist the DBA in identifying and performing the normal functions associated with maintaining the health, performance, and recoverability of the database.

IMS Fast Path Solution Pack for z/OS also uses Autonomics Director to provide a "Diagnosis for DEDB areas health" function for DEDB area reorganization.

With IMS Fast Path Solution Pack for z/OS , DBAs are able to have central control of policies on conditions for exception detection and reorganization of DEDBs. The ISPF based Policy Dialog helps DBAs create, customize, and manage policies. This feature can help save time and resources when performing the tasks of database exception detection and reorganization.

For more information regarding functions and features, refer to Software Announcement [211-384](#), dated October 11, 2011 .

**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 Connect Extensions for z/OS 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 provides comprehensive transaction performance and system resource usage reporting for your Information Management System Database ( IMS DB) and Transaction Manager ( IMS TM) systems.
- IBM IMS Problem Investigator for z/OS enables interactive analysis of log files to gain insight into IMS transaction events within and across systems.

The IMS Performance Solution Pack for z/OS offers a suite of tools which are useful separately, but when combined they can provide a powerful performance analysis capability.

By using the IMS Performance Solution Pack for z/OS , you can perform the following tasks:

- Use IMS Problem Investigator for z/OS to browse sections in the IMS log where poorly performing transactions are found (using an accounting index that is generated by IMS Performance Analyzer for z/OS ).
- 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 for z/OS 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, for example:
  - 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.

For more information regarding functions and features refer to Software Announcement [212-135](#), dated May 08, 2012 .

**IMS Recovery Solution Pack for z/OS , V1.1 (5655-V86)** combines all the features, functions, and processes needed to implement "best practices" recovery scenarios. This product combines the features and functions previously available separately in the following programs: IMS Recovery Expert for z/OS , V1, IMS Database Recovery Facility for z/OS , and IMS High Performance Change Accumulation for z/OS . Additionally, it includes all the features and functions of IMS Index Builder for z/OS , and IMS High Performance Image Copy for z/OS . In



summary, virtually everything necessary to enable timely recovery of IMS DB assets is provided with IMS Recovery Solution Pack for z/OS .

The major benefits of IMS Recovery Solution Pack for z/OS are:

- Verification of recovery assets to help verify availability and usability
- Recovery point identification and creation
- RECON cleanup
- Recovery of multiple database data sets and fast path areas simultaneously
- Integration of recovery tasks into a single job step, which can include:
  - Rebuilding index data sets
  - Creating image copies
- Automatic start up of databases
- High-speed creation of change accumulation groups
- Index rebuilding rather than recovery from image copy

IMS Recovery Solution Pack for z/OS allows for the simultaneous recovery of multiple data set and fast path areas. This solution helps reduce the operational complexity and the impact of database recovery on system resources.

For more information regarding functions and features, refer to Software Announcement [210-030](#), dated February 09, 2010 .

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### **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](http://www.ibm.com/able/product_accessibility/index.html)

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### **Section 508 of the US Rehabilitation Act**

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

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### **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 wish 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.

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## Reference information

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- Software Announcement [209-219](#), dated August 04, 2009 , for IMS Cloning Tool for z/OS
- Software Announcement [206-314](#), dated December 05, 2006 , for IMS Online Reorganization Facility for z/OS
- Software Announcement [211-384](#), dated October 11, 2011 , for IMS Database Solution Pack for z/OS and IMS Fast Path Solution Pack for z/OS
- Software Announcement [212-135](#), dated May 08, 2012 , for IMS Performance Solution Pack for z/OS
- Software Announcement [210-030](#), dated February 09, 2010 , for IMS Recovery Solution Pack for z/OS

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## Program number

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Program number	VRM	Program name
5655-E74	1.1.0	IBM DB2 Performance Solution Pack for z/OS
5655-U91	1.2.0	IBM IMS Cloning Tool for z/OS
5655-H97	1.3.0	IBM IMS Online Reorganization Facility for z/OS

Trade-up options added to:

5655-S77	1.2.0	IBM IMS Database Solution Pack for z/OS
5655-W14	1.2.0	IBM IMS Fast Path Solution Pack for z/OS
5655-S42	1.2.0	IBM IMS Performance Solution Pack for z/OS
5655-V86	1.1.0	IBM IMS Recovery Solution Pack for z/OS

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## Product identification number

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Program PID number	Subscription and Support PID number
5655-E74	5655-E75
5655-U91	5655-U92
5655-H97	5655-H98
5655-S77	5655-S78
5655-W14	5655-W15
5655-S42	5655-S43
5655-V86	5655-W13

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## Offering Information

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Product information is available via the Offering Information website

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

### Business Partner information

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

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=213-031>

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## Publications

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The IBM Publications Center portal is at

<http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. Payment options for orders are via credit card (in the US) or customer number for 20 countries. A large number of publications are available online in various file formats, and they can all be downloaded by all countries, free of charge.

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

Title	Order number
IBM DB2 Performance Solution Pack for z/OS, V1.1 (5655-E74)	
License Information(1)	GC19-3988
Program Directory	GI10-8940
Data Server Client V10.1 Linux™ 32-bit	LCD7-5735
Data Server Client V10.1 Linux 64-bit	LCD7-5736
Data Server Client V10.1 windows™ 64-bit	LCD7-5738
Data Server Client V10.1 windows 32-bit	LCD7-5737
DB2 ESE V10.1 AIX® DVD	LCD7-5729
DB2 ESE V10.1 HP-UX Itanium-based DVD	LCD7-5730
DB2 ESE V10.1 Linux 32-bit DVD	LCD7-5725
DB2 ESE V10.1 Linux 64-bit DVD	LCD7-5726
DB2 ESE V10.1 Linux Power® (System i® and System p®)	LCD7-5728
DB2 ESE V10.1 Linux System z DVD	LCD7-5727
DB2 ESE V10.1 Restricted Use Activation	LCD7-5739
DB2 ESE V10.1 Solaris 32-bit DVD	LCD7-5731
DB2 ESE V10.1 Solaris 64-bit DVD	LCD7-5732
DB2 ESE V10.1 windows 32-bit DVD	LCD7-5733
DB2 ESE V10.1 windows 64-bit DVD	LCD7-5734
ITOA Support Files for z/OS V5.1.1 DVD	LCD7-5139
Optim Data Tools Runtime Client	LCD7-2622
Optim PE Extended Edition Plugin TEP	LCD7-2623
Optim PE for LUW Server AIX, LINUX, WIN	LCD7-2621
Tivoli OMEGAMON XE Language Packs for z/OS	LCD7-3583
Tivoli OMEGAMON DB2 PE Activation Kit	LCD7-2624
Tivoli OMEGAMON DB2 PE and DB2 PM	LCD7-2597
IBM IMS Cloning Tool for z/OS, V1.2 (5655-U91)	
License Information(1)	GC19-2474
Program Directory	GI10-8797

IBM IMS Online Reorganization Facility for z/OS, V1.3 (5655-H97)	
License Information(1)	GC27-1576
Program Directory	GI10-8446
IBM IMS Database Solution Pack for z/OS, V1.2 (5655-S77)	
License Information	GC19-2912
Program Directory	GI10-8822
IBM Agreement for Acquisition of Software Maintenance	Z125-6011
IBM International Program License Agreement	Z125-3301
IBM IMS Fast Path Solution Pack for z/OS, V1.2 (5655-W14)	
License Information	GC19-2915
Program Directory	GI10-8823
IBM Agreement for Acquisition of Software Maintenance	Z125-6011
IBM International Program License Agreement	Z125-3301
IBM IMS Performance Solution Pack for z/OS, V1.2 (5655-S42)	
License Information	GC19-2901
Program Directory	GI10-8821
IBM Agreement for Acquisition of Software Maintenance	Z125-6011
IBM International Program License Agreement	Z125-3301
IBM IMS Recovery Solution Pack for z/OS, V1.1 (5655-V86)	
License Information	GC19-2906
Program Directory	GI10-8824
IBM Agreement for Acquisition of Software Maintenance	Z125-6011
IBM International Program License Agreement	Z125-3301

<sup>1</sup> Included with this publication order number are the Base License Agreements: (a) IBM International Program License Agreement (form Z125-3301) and (b) IBM Agreement for Acquisition of Software Maintenance (form Z125-6011))

The publications for products in this announcement cannot be ordered in hardcopy. All the publications in this announcement are available at:

- For DB2 Tools  
<http://www.ibm.com/support/docview.wss?uid=swg27020910>
- For IMS Tools  
<http://www.ibm.com/support/docview.wss?uid=swg27020942>

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 Performance Solution Pack for z/OS, V1.1 (5655-E74)	
DB2 Performance Solution Pack for z/OS Overview Guide	SC19-3987
IBM DB2 Buffer Pool Analyzer for z/OS, V2.1 (5697-W35):	
User's Guide	SH12-6975
Configuration Guide	SH12-6976
IBM DB2 Query Monitor for z/OS, V3.1 (5655-V42):	
User's Guide	SC19-3291
IBM 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
IBM DB2 SQL Performance Analyzer for z/OS, V4.1 (5655-w60): User's Guide	SC19-3240
IBM InfoSphere Optim Query workload Tuner for DB2 for zOS, V3.2 Quick Start Guide	GC19-3668
IBM IMS Cloning Tool for z/OS, V1.2 (5655-U91) User's Guide	SC19-3757
IBM IMS Online Reorganization Facility for z/OS, V1.3 (5655-H97) User's Guide	SC19-3967
IBM IMS Database Solution Pack for z/OS, V1.2 (5655-S77)	
IBM IMS Database Solution Pack for z/OS: Overview and Customization	SC19-3284
IBM IMS Database Reorganization Expert for z/OS User's Guide	SC19-1137
IBM IMS Database Repair Facility for IMS Solution Packs User's Guide	SC19-2916
IBM IMS Index Builder for z/OS User's Guide	SC18-9101
IBM IMS High Performance Load for z/OS User's Guide	SC18-9222
IBM IMS High Performance Image Copy for z/OS User's Guide	SC19-2756
IBM IMS High Performance Unload for z/OS User's Guide	SC27-0936
IBM IMS High Performance Pointer Checker for z/OS User's Guide	SC19-2401
IBM IMS High Performance Prefix Resolution for z/OS User's Guide	SC18-9230
IBM IMS Library Integrity Utilities for z/OS User's Guide	SC19-2479
IBM IMS Solution Packs Database Sensor User's Guide	SC19-3283
IBM IMS Solution Packs IMS Database Space Tuning Guide	SC19-3395
IBM IMS Fast Path Solution Pack for z/OS, V1.2 (5655-W14)	
IBM IMS Fast Path Solution Pack for z/OS: Overview and Customization	SC19-3286
IBM IMS Fast Path Solution Pack for z/OS: IMS High Performance Fast Path Utilities User's Guide	SC19-3287
IBM IMS Database Repair Facility for IMS Solution Packs User's Guide	SC19-2916
IBM IMS High Performance Image Copy for z/OS User's Guide	SC19-2756
IBM IMS Library Integrity Utilities for z/OS User's Guide	SC19-2479
IBM IMS Solution Packs Database Sensor User's Guide	SC19-3283
IBM IMS Solution Packs IMS Database Space Tuning Guide	SC19-3395
IBM IMS Performance Solution Pack for z/OS, V1.2 (5655-S42)	
IBM IMS Performance Solution Pack for z/OS: Overview and Customization	SC19-3636
IBM IMS Connect Extensions for z/OS User's Guide	SC19-3632
IBM IMS Performance Analyzer for z/OS User's Guide	SC19-3633
IBM IMS Performance Analyzer for z/OS Report Reference	SC19-3634
IBM IMS Problem Investigator for z/OS User's Guide	SC19-3635
IBM IMS Recovery Solution Pack for z/OS, V1.1 (5655-V86)	
IBM IMS Recovery Solution Pack for z/OS: Overview and Customization	SC19-2902
IBM IMS Database Recovery Facility User's Guide	SC19-2903
IBM IMS Database Recovery Facility: Extended Functions User's Guide	SC19-2904
IBM IMS High Performance Change Accumulation Utility User's Guide	SC19-2905
IBM IMS Index Builder for z/OS User's Guide	SC18-9101

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/e-business/linkweb/publications/servlet/pbi.wss>

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## Technical information

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### Specified operating environment

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#### **Hardware requirements**

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

#### **Additional DB2 Tools requirements:**

- DB2 Performance Solution Pack for z/OS , V1.1 (5655-E74)
  - DB2 Query Monitor for z/OS , V3.1 (5655-V42)
  - For DB2 Query Monitor Server host:
    - Any hardware configuration that supports Windows XP or Windows 7
    - Minimum 1 GB RAM
    - Minimum 1 GB disk space
    - Minimum 1 GHz processor speed
    - Network access via LAN, T1, DSL, or cable modem
    - Network protocol TCP/IP
    - SVGA monitor supporting 256 colors, or greater
  - InfoSphere Optim Query Workload Tuner for DB2 for z/OS , V3.2 (5655-W94)
    - 1.5 GB available hard drive space
    - 1 GB memory (2 GB recommended)
    - 2 GHz Pentium™ IV processor equivalent or better

#### **Additional IMS Tools requirements:**

IMS Performance Solution Pack for z/OS , V1.2 (5655-S42) operates on any IBM System z machine on which a required operating system and other required software are installed and operating.

- IMS Connect Extensions
  - Server: Any hardware that is capable of running IMS V11, 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 and Windows 7)
    - A minimum of 350 MB free disk space

## **Software requirements**

### **Mandatory installation requirements**

- IBM z/OS , V1.12 (5694-A01), or later
- IBM SMP/E for z/OS V3.5 (5655-G44), or later

### **Additional DB2 Tools requirements**

DB2 Performance Solution Pack for z/OS , V1.1 (5655-E74) requirements:

- IBM Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS , V5.1.1 requires Tivoli monitoring V6.2.3 (5698-A79)

### **Additional IMS Tools requirements**

IMS Database Solution Pack for z/OS , V1.2 (5655-S77), IMS Fast Path Solution Pack for z/OS , V1.2 (5655-W14), and IMS Performance Solution Pack for z/OS , V1.2 (5655-S42) require Tools Base for z/OS , V1.3 (5655-V93).

For IMS Recovery Solution Pack for z/OS , V1.1 (5655-V86), the latest release of Tools Base for z/OS , V1.3 (5655-V93) is recommended.

### **Mandatory operational requirements:**

#### **DB2 Tools**

The DB2 Tools in this announcement are designed to operate with:

- DB2 9 for z/OS (5635-DB2)
- DB2 9 for z/OS Value Unit Edition (5697-P12)
- DB2 10 for z/OS (5605-DB2)
- DB2 10 for z/OS Value Unit Edition (5697-P31)

In addition, the IBM InfoSphere Optim Query Workload Tuner for DB2 for z/OS , V3.2 component of DB2 Performance Solution Pack for z/OS , V1.1 (5655-E74) requires:

- Microsoft™ Windows 7 x86-32 and x86-64
- Windows Vista x86-32 and x86-64
- Windows XP SP2 x86-64 and SP3 x86-32
- Windows Server 2003 x86-32 and x86-64
- Windows Server 2003 R2 x86-32 and x86-64
- Windows Server 2008 x86-32 and x86-64
- Windows Server 2008 R2 x86-6

#### **IMS Tools**

The IMS Tools in this announcement are designed to operate with:

- IMS V11 (5635-A02)
- IMS V12 (5635-A03)
- IMS V13 (5635-A04)<sup>1</sup>

<sup>1</sup> Refer to the IMS V13 Software Announcement [212-373](#), dated October 03, 2012 , for more information or talk to your IBM representative.

### **Conditional operational requirements:**

DB2 Performance Solution Pack for z/OS , V1.1 (5655-E74) requirements, (per selected component):

- Tivoli OMEGAMON XE for DB2 Performance Expert on z/OS , V5.1.1
  - CICS® Transaction Server, V3.1, or later
- DB2 Query Monitor for z/OS , V3.1
  - If you want to run the CAE Server under USS, the most current maintenance of (31-bit) Java™ 1.6 (including all prerequisites) must be installed on your mainframe.
  - For the DB2 Query Monitor Web Client:
    - Mozilla Firefox 2.0.0.13, or later
    - Microsoft Internet Explorer V8, or later
    - Adobe™ Flash Player 10

### **IMS Tools:**

IMS Online Reorganization Facility for z/OS , V1.3 (5655-H97) requires:

- IBM Tools Base for z/OS , V1.3 (5655-V93) for IMS online command interface and IMS log capturing
- IBM IMS High Performance Unload for z/OS , V1.2 (5655-E06) for faster unload
- IBM IMS High Performance Load for z/OS , V2.1 (5655-M26) for faster load
- IBM IMS High Performance Image Copy for z/OS , V4.2 (5655-N45) for advanced image copy functions during reorganization, including pointer check
- IBM IMS High Performance Prefix Resolution for z/OS , V3.1 (5655-M27) for faster processing of internal logical relationships
- IBM IMS High Performance Pointer Checker for z/OS , V3.1 (5655-U09) for pointer check during reorganization

**Note:** IMS Online Reorganization Facility for z/OS automatically detects the existence of these tools and uses the IMS utilities in case the tools are not available on the system. This also applies when these tools are delivered as part of IBM IMS Database Solution Pack for z/OS , V1.2 (5655-S77). IMS Database Solution Pack for z/OS combines the entire set of IMS database tools needed to manage IMS Full Function and HALDB databases into a single consolidated solution. For more information with regard to our Solution Packs, refer to

<http://www.ibm.com/software/data/db2imstools/products/ims-tools.html>

IMS Database Solution Pack for z/OS , V1.2 (5655-S77) requires:

- 5694-A01, z/OS V1.12, or later (includes Language Environment® ) for IMS HP Load using the LE interface for an user exit routine written in either COBOL or PL/I.
- 5694-A01, z/OS V1.12, or later (includes DFSORT). DFSORT or a functionally equivalent sort program for function HD Pointer Checker, HD Tuning Aid, Space Monitor, Integrity Checker, IMS Index Builder, IMS HP Load, and for the ACBLIB Analyzer Utility.
- 5694-A01, z/OS V1.12, or later (includes ISPF, GDDM® ) for the display of DB Historical Analyzer charts on TSO terminals.
- 5694-A01, z/OS V1.12, or later (includes ISPF) for IMS DB Repair on TSO terminals and batch.
- 5655-W14, IMS Fast Path Solution Pack for z/OS , V1.1, or later for DEDB Hash Pointer Check for the IMS HP Image Copy Hash Check option of DEDB.

IMS Fast Path Solution Pack for z/OS , V1.2 (5655-W14) requires:

- 5694-A01, z/OS V1.12, or later (includes DFSORT) or a functionally equivalent sort program for Pointer Checker and Restructure/Reorganization and FP Secondary Index building, for function Integrity Checker, and for the ACBLIB Analyzer Utility
- 5694-A01, z/OS V1.12, or later (includes ISPF) for IMS DB Repair on TSO terminals and batch



- 5635-A02, IMS V11.1, or later if the DB Quiesce command is used to suspend online applications in IMS HP Image Copy, FMID H1J0420
- 5655-W14, IMS Fast Path Solution Pack, V1.2 - IMS HP Image Copy, FMID H1J0420, for various IMS FP Solution Pack, FMID HAHQ120, functions

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

- The IMS Connect Extensions Operations Console
  - Windows XP Professional (32-bit) or Windows Vista (32-bit) or Windows 7 (32-bit) or Windows 7 (64-bit) operating system
- IMS Performance Analyzer
  - For running IMS Connect reports, IBM IMS Connect Extensions for z/OS , V2.2 (5655-S56), or later
  - For offloading IMS Log reports to the IMS Tools Knowledge Base repository, IBM Tools Base for z/OS , V1.3 (5655-V93)
  - For collecting OMEGAMON TRF data or OMEGAMON ATF data, IBM Tivoli OMEGAMON XE for IMS on z/OS , V4.2 (5698-A34), or later
  - For measuring CICS-DBCTL transaction performance and IMS-related activity, IBM CICS Performance Analyzer for z/OS , V3.2 (5655-U87), or later
- Problem Investigator
  - For collecting IMS Connect event data, IBM IMS Connect Extensions for z/OS , V2.2 (5655-S56), or later
  - For creating the Transaction Index IBM IMS Performance Analyzer for z/OS , V4.2 (5655-R03), or later
  - For collecting OMEGAMON TRF data or OMEGAMON ATF data, IBM Tivoli OMEGAMON XE for IMS on z/OS , V4.2 (5698-A34), or later

IMS Recovery Solution Pack for z/OS , V1.1 (5655-V86) requires:

- IMS High Performance Pointer Checker for z/OS , V3.1 (5655-U09) or IMS Database Solution Pack for z/OS , V1.1 (5655-S77), or later, for Hash Checking
- 5655-W14 IMS Fast Path Solution Pack for z/OS , V1.1 (5655-W14), or later, for DEDB Hash Pointer Check

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.

## **User group requirements**

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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.

IMS Cloning Tool for z/OS , V1.2 (5655-U91) satisfies the following requirements:

MR0519103351            MR051910417

IMS Online Reorganization Facility for z/OS , V1.3 (5655-H97) satisfies the following requirements:

MR1220115027            MR0105125712            MR0615116733  
MR0622115623

IMS Database Solution Pack for z/OS , V1.2 (5655-S77) satisfies the following requirements:

MR061010367            MR1103092054            MR0209116648  
MR0806103858            MR0209114513            MR1004072114  
MR1102096951            MR0422104355            MR0330106646

MR0310102150      MR0727096831      MR021511445  
MR071510470      MR0928094842      MR022610537

IMS Fast Path Solution Pack for z/OS , V1.2 (5655-W14) satisfies the following requirements:

MR061110170      MR0618023343      MR0126063131  
MR0611105723      MR0727096831      MR0827093929  
MR061110920      MR0928094842      MR022610537  
MR1007081647

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

MR0715106233

IMS Recovery Solution Pack for z/OS , V1.1 (5655-V86) satisfies the following requirements:

MR0920075474      MR0217066622      MR0605074716  
MR0920075011      MR1110084545

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## 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)
- IBM Agreement for Acquisition of Software Maintenance (IAASM)

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### **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.

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## Software Services

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

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

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

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## Ordering information

### ***Charge metric***

Program name	PID number	Charge metric
DB2 Performance Solution Pack for z/OS, v1.1	5655-E74	Value Unit
IMS Cloning Tool for z/OS, v1.2	5655-U91	Value Unit

IMS Online Reorganization Facility for z/OS, V1.3	5655-H97	Value Unit
IMS Database Solution Pack for z/OS, V1.2	5655-S77	Value Unit
IMS Fast Path Solution Pack for z/OS, V1.2	5655-W14	Value Unit
IMS Performance Solution Pack for z/OS, V1.2	5655-S42	Value Unit
IMS Recovery Solution Pack for z/OS, V1.1	5655-V86	Value Unit

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

Program number	Program name	Value Unit exhibit
5655-E74	DB2 Performance Solution Pack for z/OS, V1.1	VUE007
5655-U91	IMS Cloning Tool for z/OS, V1.2	VUE007
5655-H97	IMS Online Reorganization Facility for z/OS, V1.3	VUE007
5655-S77	IMS Database Solution Pack for z/OS, V1.2	VUE007
5655-W14	IMS Fast Path Solution Pack for z/OS, V1.2	VUE007
5655-S42	IMS Performance Solution Pack for z/OS, V1.2	VUE007
5655-V86	IMS Recovery Solution Pack for z/OS, V1.1	VUE007

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 VUE007

	MSUs minimum	MSUs maximum	Value Units/MSU
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.

### Ordering z/OS through the Internet

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

DB2 Performance Solution Pack for z/OS has two deliverables in ShopzSeries. Each deliverable is in a different group but has the same product ID (5655-E74). When placing an order, each deliverable must be selected in the following sequence:

- In the " DB2 - DBS" group of ShopzSeries, select product ID 5655-E74 with the description " DB2 Perform Solution Pack D"
- In the " MVS™ " - System Mgmt. and Security" group, select product ID 5655-E74 with the description " DB2 Perform Solution Pack M"

For more details and availability, visit the ShopzSeries website at

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

### 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
Tier A	4-45	0.45
Tier B	46-175	0.36
Tier C	176-315	0.27
Tier D	316+	0.2

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: DB2 Performance Solution Pack for z/OS, v1.1  
Program PID: 5655-E74

Entitlement identifier	Description	License option/ Pricing metric
S0175XN	DB2 Performance Solution Pack for z/OS Trade-up from 5655-w37 Trade-up from 5655-w37 and 5655-v42	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Trade up from 5655-W37 and  
 5655-V42 and 5655-W60  
 Trade up from 5655-W37 and  
 5655-W60  
 Trade up from 5655-V42  
 Trade up from 5655-V42 and  
 5655-W60  
 Trade up from 5655-W60  
 Trade up from 5655-W94

Orderable supply ID	Language	Distribution medium
S0175KG	US English	3590 Tape cartridge
S0175ZD	US English	3590 Tape cartridge

Program name: IMS Cloning Tool for z/OS, V1.2  
 Program PID: 5655-U91

Entitlement identifier	Description	License option/ Pricing metric
S015LPS	IMS Cloning Tool for z/OS	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S016B69	US English	3590 Tape cartridge

Program name: IMS Online Reorganization Facility for z/OS, V1.3  
 Program PID: 5655-H97

Entitlement identifier	Description	License option/ Pricing metric
S010GJM	IMS Online Reorganization Facility for z/OS	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S01660G	US English	3590 Tape cartridge

Program name: IMS Database Solution Pack for z/OS, V1.2  
 Program PID: 5655-S77

Entitlement identifier	Description	License option/ Pricing metric
S015TZ5	IMS Database Solution Pack for z/OS Trade up from 5655-U09 Trade up from 5655-E06 Trade up from 5655-U08 Trade up from 5655-S35 and 5655-N45 and 5655-M26 and 5655-U09 and 5655-M27 and 5655-E06 and 5655-R01 and 5655-U08 Trade up from 5655-S35 and 5655-N45 and 5655-M26 and 5655-M27 and 5655-E06 and 5655-R01 and 5655-U08 Trade up from 5655-S35 and 5655-N45 and 5655-M27 and	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

5655-U09 and 5655-R01 and  
 5655-U08  
 Trade up from 5655-M26 and  
 5655-U09 and 5655-E06 and  
 5655-R01  
 Trade up from 5655-U09 and  
 5655-U08  
 Trade up from 5655-U09 and  
 5655-E06 and 5655-U08  
 Trade up from 5655-M26 and  
 5655-U09 and 5655-E06 and  
 5655-U08  
 Trade up from 5655-M26 and  
 5655-U09 and 5655-E06

Orderable supply ID	Language	Distribution medium
S015TZ4	US English	3590 Tape cartridge

Program name: IMS Fast Path Solution Pack for z/OS, v1.2  
 Program PID: 5655-W14

Entitlement identifier	Description	License option/ Pricing metric
S015TZC	IMS Fast Path Solution Pack for z/OS Trade up from 5655-E03 Trade up from 5655-R05 Trade up from 5655-U08 Trade up from 5655-E03 and 5655-R05 and 5655-N45 Trade up from 5655-E03 and 5655-R05 and 5655-U08 Trade up from 5655-E03 and 5655-R05 Trade up from 5655-R05 and 5655-U08 Trade up from 5655-E03 and 5655-N45 Trade up from 5655-E03 and 5655-U08	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S015TZB	US English	3590 Tape cartridge

Program name: IMS Performance Solution Pack for z/OS, v1.2  
 Program PID: 5655-S42

Entitlement identifier	Description	License option/ Pricing metric
S015TXZ	IMS Performance Solution Pack for z/OS Trade up from 5655-S56 Trade up from 5655-R03 Trade up from 5655-R02 Trade up from 5655-R03 and 5655-R02 Trade up from 5655-R03 and 5655-S56 Trade up from 5655-R02 and 5655-S56 Trade up from 5655-S56 and 5655-R03 and 5655-R02	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S015TXX	US English	3590 Tape cartridge

Program name: IMS Recovery Solution Pack for z/OS, V1.1  
 Program PID: 5655-V86

Entitlement identifier	Description	License option/ Pricing metric
S015TXG	IMS Recovery Solution Pack for z/OS Trade up from 5655-F59 Trade up from 5655-N45 Trade up from 5655-R01 Trade up from 5655-N47 Trade up from 5655-N47 and 5655-F59 and 5655-N45 and 5655-R01 Trade up from 5655-N47 and 5655-N45 and 5655-R01 Trade up from 5655-N47 and 5655-N45 Trade up from 5655-N47 and 5655-R01 Trade up from 5655-F59 and 5655-N45	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S015TXF	US English	3590 Tape cartridge

Subscription and Support PID: 5655-E75

Entitlement identifier	Description	License option/ Pricing metric
S0175XP	DB2 Performance Solution Pack for z/OS, 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
S0175XS	US English	Hardcopy pub

Subscription and Support PID: 5655-U92

Entitlement identifier	Description	License option/ Pricing metric
S0151SN	IMS Cloning Tool for z/OS, 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
S0151SK	US English	Hardcopy pub

Subscription and Support PID: 5655-H98

Entitlement identifier	Description	License option/ Pricing metric
S00WN9N	IMS Online Reorg	Basic ASC, per Value Unit SW S&S

Facility for z/OS, S&S      No charge, decline SW S&S  
Per MSU SW S&S registration

Orderable supply ID	Language	Distribution medium
S00WN9P	US English	Hardcopy pub

Subscription and Support PID: 5655-S78

Entitlement identifier	Description	License option/ Pricing metric
S015W6T	IMS Database Solution Pack for z/OS, 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
S015TZ7	US English	Hardcopy pub

Subscription and Support PID: 5655-w15

Entitlement identifier	Description	License option/ Pricing metric
S015TZG	IMS Fast Path Solution Pack for z/OS, 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
S015TZF	US English	Hardcopy pub

Subscription and Support PID: 5655-S43

Entitlement identifier	Description	License option/ Pricing metric
S015W6V	IMS Performance Solution Pack for z/OS, 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 pub

Subscription and Support PID: 5655-w13

Entitlement identifier	Description	License option/ Pricing metric
S015TXK	IMS Recovery Solution Pack for z/OS, 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
S015TXJ	US English	Hardcopy pub



## 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. 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 canceled 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.

## 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 February 22, 2013

Name of product being withdrawn	Ver	Rel	Mod	Product number
IBM IMS Cloning Tool for z/OS	1	1	0	5655-U91
IBM IMS Online Reorganization Facility for z/OS	1	2	0	5655-H97

### Replacement information

5655-U91, IBM IMS Cloning Tool for z/OS , V1.1.0 is replaced by 5655-U91, IBM IMS Cloning Tool for z/OS , V1.2.0, as announced in Software Announcement [213-031](#), dated February 12, 2013 .

5655-H97, IBM IMS Online Reorganization Facility for z/OS , V1.2.0 is replaced by 5655-H97, IBM IMS Online Reorganization Facility for z/OS V1.3.0, as announced in Software Announcement [213-031](#), dated February 12, 2013 .

## Customized Offerings

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Product deliverables are shipped only via CBPDO and ServerPac. These customized offerings 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 Shopz 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 include:

- 3590
- 3592

Most products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered via CBPDO and, ServerPac at general availability. Many products will also be orderable in a Product ServerPac without also having to order the z/OS operating system or subsystem.

Shopz and CFSW will determine the eligibility based on product requisite checking. For more details on the Product ServerPac, visit the Help section on the Shopz website at

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

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

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability.

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## Terms and conditions

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

### ***License Information form numbers***

Program name	Program number	License Information
DB2 Performance Solution Pack for z/OS, v1.1	5655-E74	GC19-3988
IMS Cloning Tool for z/OS, v1.2	5655-U91	GC19-2474
IMS Online Reorganization Facility for z/OS, v1.3	5655-H97	GC27-1576
IMS Database Solution Pack for z/OS, v1.2	5655-S77	GC19-2912
IMS Fast Path Solution Pack for z/OS, v1.2	5655-W14	GC19-2915
IMS Performance Solution Pack for z/OS, v1.2	5655-S42	GC19-2901
IMS Recovery Solution Pack for z/OS, v1.1	5655-V86	GC19-2906

### ***Trade-in terms for DB2 and IMS Solution Packs***

IBM may offer trade-in terms for customers who have separately licensed one or more of the individual products that are included in a Solution Pack and who wish to trade in the licenses to one or more such individual products when licensing a Solution Pack. If IBM offers such trade-in terms, then as part of any such trade in, all entitlements to the products being traded in will be terminated. In some cases,

the entitlements to the Solution Packs being licensed by the customer as part of the trade-in arrangement may not be equal to the entitlements being terminated. For example, if the customer holds entitlement to 100 Value Units of product A which has been included in a Solution Pack, and is trading in its license to product A in return for 90 Value Units of the Solution Pack, then, in keeping with the specific trade-in terms, the customer agrees to terminate all its entitlements to product A (100 VUs).

The program's 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>

### **IBM Operational Support Services -- SoftwareXcel**

Yes

### **System i Software Maintenance applies**

No

### **Variable charges apply**

No

### **Educational allowance available**

Yes. A 15% education allowance applies to qualified education institution customers.

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

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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	Parent, if applicable
5655-E74	DB2 Performance Solution Pack for z/OS, v1.1	Reference-based	DB2 9 (5635-DB2) DB2 9 VUE (5697-P12) DB2 10 (5605-DB2) DB2 10 VUE (5697-P31)
5655-U91	IMS Cloning Tool for z/OS, v1.2	Reference-based	IMS V11 (5635-A02) IMS V12 (5635-A03) IMS V13 (5635-A04)(2)
5655-H97	IMS Online Reorganization Facility for z/OS, v1.3	Reference-based	IMS V11 (5635-A02) IMS V12 (5635-A03) IMS V13 (5635-A04)(2)
5655-S77	IMS Database Solution Pack for z/OS, v1.2	Reference-based	IMS V11 (5635-A02) IMS V12 (5635-A03) IMS V13 (5635-A04)(2)
5655-W14	IMS Fast Path Solution Pack for z/OS, v1.2	Reference-based	IMS V11 (5635-A02) IMS V12 (5635-A03) IMS V13 (5635-A04)(2)
5655-S42	IMS Performance Solution Pack	Reference-based	IMS V11 (5635-A02) IMS V12 (5635-A03)

	for z/OS, v1.2		IMS V13 (5635-A04) (2)
5655-V86	IMS Recovery Solution Pack for z/OS, v1.1	Reference- based	IMS V11 (5635-A02) IMS V12 (5635-A03) IMS V13 (5635-A04) (2)

<sup>2</sup> Refer to the IMS V13 Software Announcement [212-373](#), dated October 03, 2012, for more information or talk to your IBM representative.

### **Full-capacity mainframes**

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

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

For more information on mainframe MSU-rated capacities, visit

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

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

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

## On/Off Capacity on Demand (CoD)

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

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## Statement of good security practices

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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.

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## Prices

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For additional information and current prices, contact your local IBM representative.

Information on charges is available at

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

Choose the option entitled Purchase/upgrade tools.

Translation from MSUs to Value Units

	MSUS	Value Units/MSU
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

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: DB2 Performance Solution Pack for z/OS, v1.1  
Program PID: 5655-E74

Entitlement identifier	Description	License option/ Pricing metric
S0175XN	DB2 Performance Solution Pack for z/OS Trade up from 5655-w37 Trade up from 5655-w37 and 5655-v42 Trade up from 5655-w37 and 5655-v42 and 5655-w60 Trade up from 5655-w37 and 5655-w60	Basic OTC, Value Units Basic OTC, Per MSU-day

Trade up from 5655-V42  
 Trade up from 5655-V42 and  
 5655-W60  
 Trade up from 5655-W60  
 Trade up from 5655-W94

Orderable supply ID	Language	Distribution medium
S0175KG	US English	3590 Tape cartridge
S0175ZD	US English	3590 Tape cartridge

Program name: IMS Cloning Tool for z/OS, V1.2  
 Program PID: 5655-U91

Entitlement identifier	Description	License option/ Pricing metric
S015LPS	IMS Cloning Tool for z/OS	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S016B69	US English	3590 Tape cartridge

Program name: IMS Online Reorganization Facility for z/OS, V1.3  
 Program PID: 5655-H97

Entitlement identifier	Description	License option/ Pricing metric
S010GJM	IMS Online Reorganization Facility for z/OS	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S01660G	US English	3590 Tape cartridge

Program name: IMS Database Solution Pack for z/OS, V1.2  
 Program PID: 5655-S77

Entitlement identifier	Description	License option/ Pricing metric
S015TZ5	IMS Database Solution Pack for z/OS Trade up from 5655-U09 Trade up from 5655-E06 Trade up from 5655-U08 Trade up from 5655-S35 and 5655-N45 and 5655-M26 and 5655-U09 and 5655-M27 and 5655-E06 and 5655-R01 and 5655-U08 Trade up from 5655-S35 and 5655-N45 and 5655-M26 and 5655-M27 and 5655-E06 and 5655-R01 and 5655-U08 Trade up from 5655-S35 and 5655-N45 and 5655-M27 and 5655-U09 and 5655-R01 and 5655-U08 Trade up from 5655-M26 and 5655-U09 and 5655-E06 and 5655-R01	Basic OTC, Value Units Basic OTC, Per MSU-day TUC



Trade up from 5655-U09 and  
5655-U08  
Trade up from 5655-U09 and  
5655-E06 and 5655-U08  
Trade up from 5655-M26 and  
5655-U09 and 5655-E06 and  
5655-U08  
Trade up from 5655-M26 and  
5655-U09 and 5655-E06

Orderable supply ID	Language	Distribution medium
S015TZ4	US English	3590 Tape cartridge

Program name: IMS Fast Path Solution Pack for z/OS, V1.2  
Program PID: 5655-W14

Entitlement identifier	Description	License option/ Pricing metric
S015TZC	IMS Fast Path Solution Pack for z/OS Trade up from 5655-E03 Trade up from 5655-R05 Trade up from 5655-U08 Trade up from 5655-E03 and 5655-R05 and 5655-N45 Trade up from 5655-E03 and 5655-R05 and 5655-U08 Trade up from 5655-E03 and 5655-R05 Trade up from 5655-R05 and 5655-U08 Trade up from 5655-E03 and 5655-N45 Trade up from 5655-E03 and 5655-U08	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S015TZB	US English	3590 Tape cartridge

Program name: IMS Performance Solution Pack for z/OS, V1.2  
Program PID: 5655-S42

Entitlement identifier	Description	License option/ Pricing metric
S015TXZ	IMS Performance Solution Pack for z/OS Trade up from 5655-S56 Trade up from 5655-R03 Trade up from 5655-R02 Trade up from 5655-R03 and 5655-R02 Trade up from 5655-R03 and 5655-S56 Trade up from 5655-R02 and 5655-S56 Trade up from 5655-S56 and 5655-R03 and 5655-R02	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S015TXX	US English	3590 Tape cartridge

Program name: IMS Recovery Solution Pack for z/OS, V1.1  
Program PID: 5655-V86

Entitlement identifier	Description	License option/ Pricing metric
S015TXG	IMS Recovery Solution Pack for z/OS Trade up from 5655-F59 Trade up from 5655-N45 Trade up from 5655-R01 Trade up from 5655-N47 Trade up from 5655-N47 and 5655-F59 and 5655-N45 and 5655-R01 Trade up from 5655-N47 and 5655-N45 and 5655-R01 Trade up from 5655-N47 and 5655-N45 Trade up from 5655-N47 and 5655-R01 Trade up from 5655-F59 and 5655-N45	Basic OTC, Value Units Basic OTC, Per MSU-day TUC

Orderable supply ID	Language	Distribution medium
S015TXF	US English	3590 Tape cartridge

Subscription and Support PID: 5655-E75

Entitlement identifier	Description	License option/ Pricing metric
S0175XP	DB2 Performance Solution Pack for z/OS, 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
S0175XS	US English	Hardcopy pub

Subscription and Support PID: 5655-U92

Entitlement identifier	Description	License option/ Pricing metric
S0151SN	IMS Cloning Tool for z/OS, 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
S0151SK	US English	Hardcopy pub

Subscription and Support PID: 5655-H98

Entitlement identifier	Description	License option/ Pricing metric
S00WN9N	IMS Online Reorg Facility for z/OS, 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
S00WN9P	US English	Hardcopy pub

Subscription and Support PID: 5655-S78

Entitlement identifier	Description	License option/ Pricing metric
S015W6T	IMS Database Solution Pack for z/OS, 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
S015TZ7	US English	Hardcopy pub

Subscription and Support PID: 5655-W15

Entitlement identifier	Description	License option/ Pricing metric
S015TZG	IMS Fast Path Solution Pack for z/OS, 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
S015TZF	US English	Hardcopy pub

Subscription and Support PID: 5655-S43

Entitlement identifier	Description	License option/ Pricing metric
S015W6V	IMS Performance Solution Pack for z/OS, 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 pub

Subscription and Support PID: 5655-W13

Entitlement identifier	Description	License option/ Pricing metric
S015TXK	IMS Recovery Solution Pack for z/OS, 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
S015TXJ	US English	Hardcopy pub

### 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 top.

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 canceled 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.

### **IBM Global Financing**

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