



IBM Information Management System (IMS) 13 for Quality Partnership Program delivery provides extremely high performance and availability

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At a glance

IMS™ 13 Database Manager enhancements

- IMS full-function, high-availability database and fast-path data entry database alter support enhances availability.
- Database versioning offers greater flexibility and speed in enabling new programs and databases.
- Additional support for Java™ and SQL and tools ease IMS development and access to IMS data.
- Enhanced log, storage, and infrastructure support reduce total cost of ownership, improve performance, and enable growth.

Transaction Manager enhancements

- IMS Connect, the TCP/IP gateway to IMS transactions, operations, and data, offers improved IMS flexibility, availability, resilience, and security.
- The Intersystem Communication (ISC) connection TCP/IP link can help reduce maintenance costs and complexities.
- Synchronous program switch and enhanced callout support ease IMS application development and connectivity to assist developers with business transformation.
- Enhanced commands, security, repository, and open transaction manager access (OTMA) support simplify operations, improve availability, and can help reduce total cost of ownership.

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

Overview

IMS is the high-performance application and data server for IBM System z® . No other solution offers the combination of extremely high performance, scalability, rock-solid reliability, and run-time efficiency. When it comes to running core applications that are at the heart of business processing, most large corporations worldwide continue to depend on IMS .

Today's enterprise IT needs are more closely tied to businesses than ever before. Companies require efficiency to meet the cost challenges and responsiveness demanded by the global economy. Enterprise IT must support growth, enabling your business to rapidly develop new products and services to remain competitive while

at the same time increasing productivity and flexibility on demand. Business today also requires IT systems to be resilient, helping reduce business risk and helping companies to comply with regulations and business processes.

IMS and IMS tools continue to evolve to provide value and help enterprise customers meet these needs. They have offered investment protection for four decades.

IMS delivers unmatched capabilities to address your on-demand business needs through enhanced integration, openness, manageability, and scalability.

Benefits include the following:

- Integration and open access improvements offer the flexibility and support for your business growth requirements.
- Manageability enhancements help you optimize system staff productivity by improving ease of use and autonomic computing facilities, while also enabling increased availability.
- Scalability improvements have been made to the well-known performance, efficiency, availability, and resilience of IMS .

IMS includes many additional features and improvements that, along with the IBM System z platform, help you meet your IT and enterprise data center cost challenges, as well as efficiency, resilience, and flexibility needs.

To learn more about IMS products and tools, visit

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

Key prerequisites

IMS 13 can be used with all IBM processors capable of running z/OS® (5694-A04) V1.13, or later, and supports the Long Displacement Facility of the z/Architecture® . Additional prerequisites exist for specific IMS 13 functions.

Planned availability date

December 14, 2012, is the IMS 13 (5635-A04) Quality Partnership Program (QPP) start date. IBM plans to ship IMS 13 to customers already selected as participants in the QPP process.

General availability of IMS V13 will be announced at a later date.

Description

Integrated and open access for simplified application development and deployment

IMS TCP/IP communication is enhanced to optionally enable IMS systems to communicate with CICS® systems through the Intersystem Communication (ISC) connection using TCP/IP protocols. This can help eliminate maintenance costs and complexities associated with maintaining SNA LU 6.1 communications between these systems.

The new ISC TCP/IP connection supports the asynchronous sending and receiving of transaction messages and their responses, using the IMS Connect function to enable TCP/IP communication with CICS . Depending on installation variables, the TCP/IP-type ISC link can provide increased bandwidth over the VTAM-type ISC links and therefore improved performance. The configuration and operation of the ISC TCP/IP links are similar to that of the ISC VTAM® links. Both link types can coexist and be used as backup to each other to help availability.

To ease operational support for IMS TCP/IP connections, new IMS Connect type-2 commands create new port and datastore definitions. Eliminating the need to restart IMS Connect to add or create these definitions contributes to higher availability.

Additional IMS Connect enhancements enable you to use IMS Connect more easily while giving you improved availability and security. These enhancements, which make IMS Connect more helpful, more resilient to abends, and easier to use and manage, enable you to:

- Query XML Converters loaded in IMS Connect
- Auto-restart the Language Environment® (LE) if an XML Converter abend occurs
- Expand the Recorder Trace Records and provide some new trace records
- Use the RACF® Event Notification Facility (ENF) Support for caching RACF user IDs, and use a command to automatically refresh those cached user IDs
- Configure TCP/IP backlog or queue size for concurrent connection requests
- Automatically report overall health to Workload Manager (WLM) for Sysplex distributor to use and take into account when doing workload balancing

Open Transaction Manager Access (OTMA) enhancements

OTMA Early Termination Notification support disconnects the OTMA clients, such as IMS Connect and MQSeries® from the OTMA z/OS cross-system coupling facility (XCF) group earlier in the notification process. The OTMA client can then route new transactions to other IMS systems, resulting in more completed requests.

OTMA Destination Descriptors are enhanced to support asynchronous callout messages to MQSeries via the MQ Bridge. This enables you to send asynchronous output messages to MQSeries without having to code OTMA user exits to recognize an MQ destination. This simplifies integration and messaging to MQSeries. In addition, it enhances availability by supporting dynamic definition change using type-2 commands.

OTMA destination routing exits (DFSYPX0 and DFSYDRU0) can also now be called when a destination name is found in the OTMA destination descriptor. The exits make the final routing decision rather than the user.

OTMA also now includes an option to enforce the global flood limit to reject new transaction requests from all of the OTMA clients and protect IMS from storage exhaustion. This improves system resilience.

Multiple systems coupling (MSC) facility enhancements

A new IMS startup parameter for MSC simplifies the IMS definition and sysgen process by eliminating the need for dummy MSC links in order to install the MSC feature for shared queue environments.

Synchronous program switch

You can use the DL/I ICAL function to perform a program switch and receive a synchronous response during the same unit of work. For example, you can enable multiple transactions receiving input and, based on the contents, synchronously call additional programs to complete the business transaction. This simplifies the IMS program logic, reduces unnecessary network traffic of multiple ICAL calls, and eases reuse of existing services of IMS applications.

Synchronous callout

A new ICAL call for synchronous callout can retrieve the entire response data when the previous ICAL call returns with the truncated response data. No TCP/IP traffic is needed to get the response data for this new ICAL retrieval call.

Java-dependent region use of External Subsystem Attach Facility

Java-dependent region can now use the External Subsystem Attach Facility. This enables connections for DB2® to be consistent across all region types, gives you access to other subsystems, such as MQ, and eliminates the need to use RRS attach for DB2 . In addition, it enables the following:

- Java Message Services (JMS) access to MQ from IMS Java applications
- MQ access from IMS COBOL and PL/I applications
- Improved performance for DB2 because of eliminating extra signon processing
- Simplified external subsystem definitions

Increased number of application threads

The maximum number of application threads that can run concurrently is increased from 999 to 4095. This supports newer system hardware with additional room for vertical growth, and enables IMS to add capacity without having to add more IMS images.

Security enhancements

New security enhancements include the following:

- Additional settings specified through runtime parameters, enabling the removal of the system definition SECURITY macro
- Security-related user exits moved out of the IMS nucleus
- Modules loaded as stand-alone modules in 31-bit private

In addition, the user exit DFSCGN0 is called during IMS initialization, making it easier to update security-related settings, simplifying the system generation process and the process of linking IMS with user exits, and reducing 24-bit private virtual storage.

Additional IMS 13 integration items from the IMS 12 service process

The IMS catalog offers a validated and comprehensive view of IMS database metadata and is fully managed by IMS . Catalog information includes program (PSB) and database (DBD) information defined to the IMS database system, including databases, fields, segments, data types, and more. When PSB and DBD resources are created, altered, or deleted, the catalog will reflect those changes. This enables IMS to participate in solutions requiring exchange of metadata, such as impact analysis. The catalog also offers a more flexible IMS Open Database solution as applications no longer need to maintain Java metadata classes.

The IMS catalog includes information for other tools to enable fast, detailed impact analysis that can help reduce the overall costs associated with adding new or changed databases or application programs into IMS . The catalog helps minimize the risks of unexpected dependencies between IMS resources, and significantly aids new application development. It also includes information to simplify application development and viewing of application data, assisting in integration with the rest of the application and data management products and development tools. The catalog also enables large-scale deployment of IMS Open Database solutions. The catalog can offer a single source of up-to-date IMS metadata, no longer requiring a multifile system-based approach.

The Universal JDBC and DLI drivers and the Universal DB resource adapter are enhanced to support the IMS catalog. The universal drivers now consume trusted metadata information from the catalog, which matches that used by IMS at run time when accessing the database.

The universal drivers are also enhanced with a new Get by Offset feature that allows queries to be generated with qualifications on non-searchable fields by identifying the field based on offset and length. This eases use by removing any required special affinity between IMS and JDBC tools that generate SQL queries,

thus enabling additional JDBC-based tools to work on the standard assumptions that all columns in a table are searchable.

RACF password phrase support enables users to sign on to IMS using RACF password phrases. Password phrases can be up to 100 bytes and contain any characters. This offers a simpler way for clients to use and remember passwords.

Synchronous Callout SendOnly with ACK support enables the return to an application of an indication that a response has been successfully delivered to the Synchronous Callout Server. It enables the commit or abort of the updated resources.

OTMA transaction expiration enhancements do the following:

- Reduce MIPS usage.
- Support the MQ expiry function, indicating the time for a message to live.
- Enable retrieval of the LTPCB output created at Shared Queues backend IMS systems.
- Improve the usability of the /DISPLAY TMEMBER TPIPE command, adding support at the end of the TPIPE name in this command for a generic character or wildcard. The wildcard character can display a series of TPIPE queues named similarly.

These enhancements reduce CPU costs for IMS and MQ environments, simplify Shared Queues usage, and ease use of this DISPLAY command for all OTMA users.

IMS Connect is enhanced to increase the number of XML converters that can be loaded in IMS Connect from 100 up to 2000. This can simplify XML access and use.

The following separate products offer additional integration for IMS 12 and 13 users

IBM 31- and 64-bit SDK7 for z/OS Java Technology Edition Version 7 enable IMS Java application developers to take advantage of new IBM zEnterprise® features, including:

- z/OS V1.13 Flash Express® for paging and for pageable large pages
- Transactional-Execution facility
- Miscellaneous-instruction-extension facility

These enhancements are delivered through the SDK7 for z/OS Java Technology Edition Version 7 service process.

IMS Enterprise Suite V2.1 Explorer enables IMS application developers and database architects and developers to easily perform common and essential tasks in an end-to-end application development lifecycle. It uses an Eclipse-based user interface that seamlessly integrates with other Eclipse-based solutions. Graphical editors simplify the development and visualization of Database Description (DBD) and Program Specification Block (PSB) resources definitions.

Explorer enhancements for populating the IMS catalog further simplify application tasks, reducing IMS application development and deployment costs, and offering a foundation on which additional internal and vendor-provided tools can extend and enrich the provided functionality. These enhancements are offered through the IMS Enterprise Suite 2.1 service process or the IMS website at

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

IMS Enterprise Suite V2.2 is designed to enhance your use of IMS applications and data. In this release of the suite, components deliver innovative new capabilities for your IMS environment that include the following:

- Enhanced connectivity
- Expanded application development
- Extended standards and tools for a service-oriented architecture (SOA)

- Ease of installation
- Simplified interfaces
- Ready access to IMS product information

Ease management and extend scalability for ultra-high performance, capacity, availability, and recovery

Database versioning support

Database versioning support enables programs to use different versions of the same physical database. Multiple views of the physical data are maintained in the IMS catalog. Old applications remain unchanged when the physical structure of the database changes. You can make database structure changes and need only compile programs that reference the changed fields and segments. This enhancement offers the following benefits:

- Enables changes to be made more granularly
- Offers greater flexibility in rolling out new versions of programs and databases
- Allows new programs to get out faster without waiting for all programs to be updated to the new database structure

Full-function high-availability large database (HALDB) alter support

Full-function HALDB alter support enables an IMS HALDB structure to be changed without unload/reload of the database. You can add a field to the end of a segment and increase the length of a segment. This improves IMS HALDB availability by enabling structure changes without taking the database offline and flexibility in rolling database changes into the system.

Fast path data entry database (DEDB) alter support

Fast path DEDB alter support enables DEDB area changes without unload/reload of the area. This provides dynamic change for UOW and Root Parameters of an exiting area, allowing the Root Addressable and Independent Overflow sections to be increased or decreased. It improves DEDB area availability by enabling definitional changes without taking the database offline and flexibility in rolling area changes into the system.

Dynamic resource definition (DRD) enhancements

Support for IMS repository, a single centralized store for resource definitions in an IMSplex, is enhanced to validate resource attributes between associated resources when a resource definition is added to, updated in, or deleted from the IMSRSC Repository. This simplifies management of the DRD resources. This support is also provided through the IMS 12 service process.

Increased number of database and HALDB partitions in a unit of work

Business process management (BMP) applications are enabled to update a combined total of more than 300 full-function databases and HALDB partitions before the changes must be committed. Relieving an earlier restriction, this enhances availability and simplifies use.

Additional performance and reduced total cost of ownership enhancements

Numerous small internal changes improve efficiency and reduce storage and MIPS usage to run IMS . These changes include eliminating the need for certain latches and locks, and optimizing some frequently used processes.

In addition, the Common Queue Server uses pageable large pages for selected buffers when IMS is run on a zEnterprise and z/OS supporting pageable large pages. This support is also provided through the IMS 12 service stream.

Additional serviceability enhancements

The /DIAGNOSE command enhancements enable the /DIAG SNAP command to offer new options for output and to include information on more resources. Support for the SYSOUT output formatting routine enables output to be sent to SYSOUT data sets. This can reduce the time and effort required to capture diagnostic information and resolve problems.

The following separate products offer additional management and scalability for IMS 12 and 13 users

IMS Configuration Manager for z/OS , V2.1 includes source control for DRD resources, a seamless transition from MODBLKs to DRD, and help in managing IMS parameters and resource definitions dynamically. It enables the creation and updating of IMS resources more easily, frequently, and reliably while offering unparalleled levels of availability.

Accessibility by people with disabilities

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on the product's accessibility compliance can be requested via IBM's Web site:

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

Product positioning

IMS is IBM's premier transaction and hierarchical database management system. Exclusive to the z/OS platform, IMS 13 complements DB2 , CICS , and WebSphere® servers for database and transaction management. Ongoing integration efforts mean that IMS can continue to add significant value to a multi-tier enterprise architecture.

IMS Database Manager is a hierarchical model; DB2 , Oracle, and desktop systems use a relational model. Each database model continues to evolve with unique roles to play. Mission-critical processing that requires unparalleled performance is best served by a hierarchical model. Analytics and business intelligence are best served by a relational model. Most Fortune 100 companies use both.

Operational data is stored in hierarchical form and can be accessed easily by BI and analytics tools. IMS data can be accessed directly or propagated and replicated with relational data in support of BI. IBM includes standard application interfaces and drivers to access IMS as well as other data. Both relational data and hierarchical IMS data can be efficiently accessed, together or independently, using the IMS Transaction Manager and IBM WebSphere servers.

IMS Transaction Manager is one of three strategic IBM application managers, with CICS and WebSphere Application Server. Each provides unique capabilities. IMS TM excels in application management, data storage, and data access and applies strict rules for this access. WebSphere applies simplified access rules, serving the web and integrating data that may be less defined. Enterprise clients use both application managers for specific purposes: IMS TM for mission-critical high-performance processing and WebSphere for web-based applications.

IMS , IBM Rational® , and WebSphere products continue to deliver new levels of tooling and integration. Enterprise clients can take advantage of Rational Developer for System z to maintain and enhance trusted IMS applications and develop web applications. Using the IMS Universal database drivers WebSphere applications can access IMS database data directly using industry standard JDBC and SQL.

IBM continues to invest in new IMS features to help clients improve business efficiency and lower costs. Compared to previous IMS versions, some clients may achieve CPU savings for traditional and nontraditional workloads. Productivity improvements in IMS 13 for database and systems administrators can drive additional operational efficiencies and cost savings. Synergy with System z platform components can reduce CPU use by leveraging the latest processor improvements,

larger amounts of memory, solid-state disk, and z/OS enhancements. IMS 13 delivers savings you can count on and is a great fit for your IT future.

Hardware and software support services

SmoothStart/installation services

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

Additional technical services (planning and migration assistance, performance tuning, and other services) can be obtained through the Worldwide IMS Product Affinity Services team. For more information, contact the team at dmservices@us.ibm.com

Business Partner information

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=212-373>

Reference information

Refer to:

- Software Announcement [212-325](#), dated October 03, 2012 , CICS Transaction Server for z/OS Version 5.1
- Software Announcement [212-341](#), dated October 03, 2012 , IBM DB2 and IMS database tools enhanced
- Hardware Announcement [112-155](#), dated August 28, 2012 , IBM zEnterprise EC12
- Software Announcement [212-186](#), dated May 29, 2012 , IBM Rational Developer for System z , V8.5 speeds deployment and provided better compatibility
- Software Announcement [212-135](#), dated May 08, 2012 , IBM DB2 and IMS database tools enhanced to help better manage your database environments
- Software Announcement [212-119](#), dated April 24, 2012 , IBM Problem Determination Tools help expedite your move to smarter development
- Software Announcement [211-316](#), dated September 06, 2011 , IBM InfoSphere® Guardium® V8.2
- Software Announcement [211-311](#), dated September 06, 2011 , IBM InfoSphere Guardium S-Tap for IMS
- Software Announcement [211-306](#), dated September 06, 2011 , IBM InfoSphere IMS Replication for z/OS enhanced to better manage IMS to IMS replication and better integrate with InfoSphere Change Data Capture and DataStage®
- Software Announcement [211-290](#), dated August 16, 2011 , IBM InfoSphere Data Replication V10.1 delivers real time data replication
- Software Announcement [211-252](#), dated July 12, 2011 , IBM z/OS Version 1 Release 13

Program number

Program number	VRM	Program name
5635-A04	13.1.0	IMS Transaction and Database Servers

Education support

The following IMS classes are available now:

Course title	Course number
IMS Fundamentals	CMW01
IMS System Programming: DBCTL	CMW12
IMS System Programming: Database and Transaction Management	CMW11
IMS Database Recovery and Sharing Control (DBRC)	CMW20
Operating your IMS environment	CMW35
Implementing IMS Security	CMW43
Implementing IMS Security	CMW43
IMS Database Repair	CMW44
IMS Database Recovery	CMW45
IMS Parallel Sysplex® Workshop	CM621
IMS DB Application Programming	U3717
IMS DC Application Programming	U3718
IMS Physical Organization of Databases Workshop	CMW22
IMS Fast Path Implementation	CMW64
IMS DB Performance and Tuning	CMW30
IMS DC TM Performance and Tuning	CMW21
IMS Logical Relationships	CM241
IMS Installation Workshop	U3759
IMS V11 Product Enhancements	CMWB0
IMS V12 Product Enhancements	CMWC0
IMS V13 Product Enhancements (at GA)	CMWD0
IMS Transaction Manager Performance and Tuning	CMW21
IMS Diagnostic Approaches	CMW66
IMS High Availability Large Database (HALDB)	CMW46
IMS Data Sharing	CMW50
IMS Shared Queues (HALDB)	CMW61

Call IBM training at 800-IBM-TEACH (426-8322) for catalogs, schedules, and enrollments.

Technical information

Specified operating environment

Hardware requirements

Processors: IMS 13 operates on 64-bit IBM processors capable of running z/OS V1.13, or later, and supports the Long Displacement Facility of the z/Architecture .

Additional line-item requirement information and a list of supported terminals is provided in the *IMS 13 Release Planning Information and the Program Directory for IMS V13.01.00* at

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

Software requirements

IMS 13 Transaction and Database Servers

IMS 13 operates under z/OS V1.13 configurations, or subsequent versions, releases, and modification levels, unless otherwise stated, and requires the following minimum version, release, or modification levels:

- z/OS V1.13 (5694-A01) with DFSMSdfp (a base element of z/OS V1.13)
- RACF (included in a separately orderable Security Server feature of z/OS V1.13), or equivalent, if security is used
- IBM High-Level Assembler Toolkit, a separately orderable feature of z/OS V1.13

IMS 13 also operates in a virtual machine under control of z/OS V1.13 and is intended for use in a customer program development, testing, and non-XRF production environment, with some restrictions.

IMS 13 ISC/TCP/IP connection support with CICS requires CICS TS V5.1 ISC TCP/IP support.

Additional line-item requirement information is provided in the IMS 13 Release Planning Information and the Program Directory for IMS V13.01.00 at

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

IMS 13 DB can be connected using the appropriate interface to IMS 13 TM (5635-A03), CICS Transaction Server for z/OS V3.2, or later, WebSphere Application Server V7, or later, DB2 for z/OS V9, or later, and user-written software. or later, and user-written software.

IMS 13 TM can be connected using the appropriate interface to IMS 13 TM (5635-A04), or later, IMS 13 DB (5635-A04), or later, CICS Transaction Server for z/OS V3.2, or later, WebSphere Application Server V7, or later, DB2 for z/OS V9, or later, and user-written software.

The IMS ETO feature requires the IMS TM feature.

The IMS Remote Site Recovery (RSR) Record Level Tracking (RLT) feature requires either the IMS TM or the IMS DB feature.

The IMS RSR Database Level Tracking (DLT) feature requires the IMS RSR RLT and IMS DB features.

IMS 13 is written in High Level Assembler, PL/X, C, C++, and JDK Version 7.

Compatibility

- IMS 13 is upwardly compatible from previous versions, allowing existing applications and data to be used without change. Migration and coexistence support is provided for IMS 11 and 12. Review the Preventative Service Planning (PSP) information for the latest details.
- IMS 13 is the last release to support the IMS Connect SSL function. Customers using this function should migrate to Connect AT-TLS support
- Prior to IMS 12, the STCK timestamp in each log record suffix (field LOGRC_STCK) was a unique value for each record in the IMS log. In IMS 12, it is possible for consecutive log records from the same IMS to have the same value in this field. Customers using the LOGRC_STCK alone to establish a unique, time-ordered key for sorting log records, if needed, should now use the concatenation of LOGRC_STCK and the log suffix sequence number (field LOGRC_SEQUENCE_NUMBER).
- IMS 12 is the last release to support the SECURITY macro in system definition. Customers using the security macro should migrate to use the initialization parameters.
- IMS 11 is the last release to support the SMU-to-RACF utilities. Customers need to migrate to RACF or an equivalent product with an earlier IMS version.
- IMS 11 is the last release to support the Knowledge Based Log Analysis (KBLA) facility. Customers using this function should migrate to use other IMS-provided analysis utilities and reports, such as Fast Path Log Analysis utility (DBFULTA0), File Select and Formatting Print utility (DFSERA10), IMS Monitor Report Print utility (DFSUTR20), Log Transaction Analysis utility (DFSILTA0), Offline Dump Formatter utility (DFSOFMD0), Statistical Analysis utility (DFSISTS0), or to other

complementary products, such as IMS Problem Investigator, IMS Performance Analyzer, or similar products.

- IMS information continues to be available online (including the diagnosis information) as PDF files and in XHTML in the Information Management Software for z/OS Solutions Information Center at

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

- IMS 13 product documentation information is also available from the IBM Publications Center at

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

Performance considerations

IMS 13 continues to build on its tradition of high-performance, low-cost transaction processing by removing constraints and reducing pathlength while also taking advantage of new system functions.

IMS 13 provides several enhancements to reduce internal IMS pathlength, which may reduce overhead and thus cost per transaction. These enhancements are spread throughout the product where IMS was able to find improved methods to accomplish the same function more efficiently.

With IMS 13, IBM lab measurements show multiple concurrently-executing BMP jobs performing large numbers of inserts and deletes complete in up to 30% lower elapsed time compared with IMS 12.

With IMS 13, IBM lab measurements show a log latch contention reduction of up to 80% compared with IMS 12. This contention reduction may improve your overall throughput and cost per transaction.

IMS continues to demonstrate that it can provide the highest performance, lowest cost transaction performance with absolute integrity for both messages and database.

User group requirements

This announcement satisfies or partially satisfies requirements from one or more of the worldwide user group communities.

- MR0531114545 - Make JVM Persistent in MPPs but not the used COBOL modules
- MR0823112442 - Keep Modules Resident in an IMS Region even throughout transaction switches
- MR082311206 - Make Last Used State Feature configurable
- MR0531114533 - Print -Xoptionsfile= parameters from DFSJVM00
- MR0909112122 - Preload for IMS JDRS
- MR0504113839 - RACF Passphrase Support for OTMA and 3270 logon/signon
- MR0312122426 - Avoid U0367 abend when an OTMA transaction reaches the MAXTP condition at a shared queues back-end system
- MR0128041515 - Provide Command to identify CQS Clients
- MR0819082459 - Provide Command to identify CQS Clients
- MR0715083323 - IMS ISC SNA Enhancement Request
- MR0914077243 - Early OTMA notification to clients when IMS is shutting down
- MR010610736 - IMS as a Flows Process Application Server
- MR0805102410 - Call the OTMA routing exits with descriptor information passed and let the exits make the final routing decision
- MR0805103025 - Provide MQ/Series support for IMS OTMA Destination Routing descriptors
- MR0929113115 - Synchronous Callout ICAL Call feature should be modified to allow easy retrieval of the truncated response data in case partial data has been returned.
- MR1117103338 - Increase the number of IMS PSTs
- MR053111373 - ESAF for Java Dependent regions
- MR1217096450 - IMS TM Java applications with MQ API

- MR1116117148 - Program-to-Program Message Switches should be eligible for the "Local-first" Shared Queues processing option.
- MR0721114547 - All Tools: Quick Customization and IVP Generation
- MR0416123047 - ISC over TCP/IP for CICS to Support Asynchronous communications with CICS
- MR020112193 - IMS DEDB database resizing online
- MR0516125459 - Increase converter cache in IMS Connect
- MR1117103338 - Increase the number of IMS PSTs

Planning information

Products eligible for single version charging

Direct customer support is provided by IBM Operational Support Services - SoftwareXcel Enterprise Edition or SoftwareXcel Basic Edition. These fee services can enhance your productivity by providing voice and electronic access into the IBM support organization. IBM Operational Support Services - SoftwareXcel Enterprise Edition or SoftwareXcel Basic Edition will help answer questions pertaining to usage, how-to, and suspected software defects for eligible products.

Installation and technical support is provided by IBM Global Services. For more information on services, call 888-426-4343.

Security, auditability, and control

The announced program uses the security and auditability features of the host hardware or 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

The following softcopy publications are available from the IBM Publications Center at

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

Title	Order Number	Availability
IMS Version 13 Program Directory	GI10-8914	December 2012
IMS Version 13 Release Planning	GC19-3658	October 2012

Ordering instructions and order processing availability will be communicated when IBM announces availability of this product.

The following IMS Redbooks® are available now from Mechanicsburg or at

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

Title	Order number
IMS 12: The IMS Catalog red paper	REDP-4812
IMS 12 Technical Overview	SG24-7972
IMS 11 Open Database	SG24-7856
IMS v11 Technical Overview	SG24-7807
Powering SOA Solutions with IMS	SG24-7662
IMS V10 Implementation Guide: A Technical Overview	SG24-7526
Powering SOA with IBM Data Servers	SG24-7259
IMS Performance and Tuning Guide	SG24-7324
Publishing IMS and DB2 Data Using WebSphere Information Integrator: Configuration and Monitoring Guide	SG24-7132
IMS Connectivity in an On Demand Environment: A Practical Guide to IMS Connectivity	SG24-6794
IMS V9 Implementation Guide: A Technical Overview	SG24-6398
IMS V8 Implementation Guide: A Technical Introduction of the New Features	SG24-6594

The following materials are available in PDF or HTML format and may be obtained at the Library link through

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

Title

IMS 13

IMS Presentations and white papers on Enterprise Integration, Performance, Connectivity, and other IMS topics

The following book is available in hardcopy format from IBM Press:

Title

An Introduction to IMS - Second Edition

For details, visit

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

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, Canada, and several countries in Europe. In countries where ShopzSeries is not available yet, contact your IBM representative (or IBM Business Partner) to handle your order via the traditional IBM ordering process. For more details and availability, visit the ShopzSeries Website at

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

New licensees

Orders for new licenses can be placed now.

Registered customers can access IBMLink for ordering information and charges.

Shipment will not occur before the availability date.

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

Unless a later date is specified, an order is scheduled for the week following order entry.

New users of IMS 12 should specify:

Type: 5635 Model: A03

CFSW configuration and order entry capability are available.

Advanced Workload License Charges (AWLC) basic license

AWLC pricing metric leverages the reporting mechanisms and existing Millions of Service Units (MSU) per hour tiers of the Variable Workload License Charges (VWLC) pricing model while extending the software price performance provided by the VWLC tiers. For details, refer to Software Announcement [210-238](#), dated July 22, 2010 ,

Advanced Workload License Charges (AWLC) basic license:

To order a basic license, specify the program number and quantity of MSU.

Program name: Information Management System Version 13
Transaction and Database Servers

Program PID: 5635-A04

Entitlement identifier	Description	License option / pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, AWLC
S0171RX	V13 Transaction Manager QPP	Basic MLC, AWLC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, AWLC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, AWLC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, AWLC

Advanced Entry Workload License Charges (AEWLC) basic license

The AEWLC pricing metric leverages the reporting mechanisms and existing Millions of Service Units per hour (MSU) tiers of the Entry Workload License Charges (EWLC) pricing metric while extending the software price performance provided by EWLC. For details, refer to Software Announcement [211-250](#), dated July 12, 2011 .

Advanced Entry Workload License Charges (AEWLC) basic license:

To order a basic license, specify the program number and quantity of MSU.

Program name: Information Management System Version 13
Transaction and Database Servers

Program PID: 5635-A04

Entitlement identifier	Description	License option / pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, AEWLC
S0171RX	V13 Transaction Manager QPP	Basic MLC, AEWLC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, AEWLC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, AEWLC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, AEWLC

Parallel Sysplex license charge (PSLC) basic license

To order a basic license, specify the program number and quantity of MSU.

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

Program name: Information Management System Version 13
Transaction and Database Servers

Program PID: 5635-A04

Entitlement identifier	Description	License option / pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, PSLC (ABCD)
S0171RX	V13 Transaction Manager QPP	Basic MLC, PSLC (ABCD)
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, PSLC (ABCD)
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, PSLC (ABCD)
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, PSLC (ABCD)

Workload License Charge (WLC) basic license

If there is more than one program copy in a Parallel Sysplex , the charge for all copies is associated to one license by specifying the applicable WLC license options and quantity represented by the sum of the Service Units in Millions (MSUs) in your

Parallel Sysplex . For all other program copies, specify the Workload Registration Variable WLC Identifier on the licenses.

Program name: Information Management System Version 13
Transaction and Database Servers

Program PID: 5635-A04

Entitlement identifier	Description	License option/ Pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, V-WLC
S0171RX	V13 Transaction Manager QPP	Basic MLC, V-WLC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, V-WLC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, V-WLC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, V-WLC

Entry Workload License Charge (EWLC) basic license

To order a basic license, specify the program number and the quantity of MSUs.

Program name: Information Management System Version 13
Transaction and Database Servers

Program PID: 5635-A04

Entitlement identifier	Description	License option/ Pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, Entry WLC
S0171RX	V13 Transaction Manager QPP	Basic MLC, Entry WLC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, Entry WLC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, Entry WLC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, Entry WLC

S/390® and System z Usage License Charge, basic license: Specify the applicable S/390 and System z Usage License Charge option. Charges will be based upon the Peak MSUs. Usage reported between thresholds of features 1, 2, or 3, will be rounded up to the next MSU level. Above 1.0 MSU, usage will be rounded to the nearest whole MSU. For example, 2.4 MSUs would round to 2.0 MSUs for pricing, and 2.5 MSUs would round to 3.0 MSUs for pricing.

Program name: Information Management System Version 13
Transaction and Database Servers

Program PID: 5635-A04

Entitlement identifier	Description	License option/ Pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, ULC (ABCD)
S0171RX	V13 Transaction Manager QPP	Basic MLC, ULC (ABCD)
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, ULC (ABCD)
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, ULC (ABCD)
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, ULC (ABCD)

Growth opportunity license charge (GOLC)

To order a basic license, specify the program number and the correct level.

Specify the GOLC monthly license option.

Program name: Information Management System Version 13
Transaction and Database Servers

Program PID: 5635-A04

Entitlement identifier	Description	License option / pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, GOLC
S0171RX	V13 Transaction Manager QPP	Basic MLC, GOLC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, GOLC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, GOLC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, GOLC

System z entry license charge (zELC)

To order zELC software, specify the program number and the zELC Processor Group.

Specify the zELC monthly license option.

Program name: Information Management System Version 13
Transaction and Database Servers

Program PID: 5635-A04

Entitlement identifier	Description	License option/ Pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, zELC
S0171RX	V13 Transaction Manager QPP	Basic MLC, zELC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, zELC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, zELC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, zELC

Single version charging

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

Basic machine-readable material

Orderable supply ID	Language	Distribution Medium	Description
S0171RM	English	CST3590-128T	IMS V13 Extended Terminal Op QPP, ENU
S0171RL	English	CST3590-128T	IMS V13 DB-Level Tracking QP, ENU
S0171RK	English	CST3590-128T	IMS V13 Database Manager QPP, ENU
S0171RR	English	CST3590-128T	IMS V13 TM QPP, ENU
S0171RP	English	CST3590-128T	IMS V13 RLT QPP, ENU

Customization options

Select the appropriate feature numbers to customize your order and specify the delivery options desired. These features can be specified on the initial or MES orders.

Example

If publications are not desired for the initial order, specify feature number 3470 to ship media only. For future updates, specify feature number 3480 to ship media updates only. If in the future publication updates are required, order an MES to remove feature number 3480; then the publications will ship with the next release of the program.

Initial shipments

Feature	Description
3444	Serial Number Only (suppresses shipment of media and documentation)

3470 Ship Media Only
(suppresses initial shipment of documentation)

3471 Ship Documentation Only
(suppresses initial shipment of media)

Update shipments

Feature	Description
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3480	Ship Media Updates Only (suppresses update shipment of documentation)
------	--

3481	Ship Documentation Only (suppresses update shipment of media)
------	--

3482	Suppress Updates (suppresses update shipment of media and documentation)
------	---

Expedite shipments

Feature	Description
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3445	Local IBM Office Expedite (for IBM use only)
------	---

3446	Customer Expedite Process Charge (\$30 charge for each product)
------	--

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

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

Terms and conditions

Agreement

IBM Customer Agreement

Variable charges apply

No

Indexed monthly license charge (IMLC) applies

No

Location license applies

No

Use limitation applies

No

Educational allowance available

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

Volume orders

Not applicable.

Replaced program number	Program(s) program name	Replacement program number	Program(s) program name
5655-B01	IMS V7	5635-A04	IMS V13
5655-C56	IMS V8	5635-A04	IMS V13
5655-J38	IMS V9	5635-A04	IMS V13
5635-A01	IMS V10	5635-A04	IMS V13
5635-A02	IMS V11	5635-A04	IMS V13
5635-A03	IMS V12	5635-A04	IMS V13
5635-A04	IMS V13	Follow-on	if any

Warranty applies

Yes

Licensed program materials availability

Restricted Materials of IBM: None
Non-Restricted Source Materials: Some
Object Code Only (OCO): Some

Program services

Support Center applies: Yes
Access is available through the
IBM Support Center
Available until discontinued: 12 months' written notice
APAR Mailing Address: IBM Corporation
555 Bailey Avenue
San Jose, CA 95141

IBM Operational Support Services - SupportLine

Yes

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.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a Web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM . Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

Prices

For all local charges, contact your IBM representative.

Program number

5635-A04

Entitlement identifier	Description	License option / pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, AWLC

S0171RX	V13 Transaction Manager QPP	Basic MLC, AWLC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, AWLC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, AWLC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, AWLC

Entitlement identifier	Description	License option / pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, AEWLC
S0171RX	V13 Transaction Manager QPP	Basic MLC, AEWLC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, AEWLC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, AEWLC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, AEWLC

Entitlement identifier	Description	License option/ Pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, ZELC
S0171RX	V13 Transaction Manager QPP	Basic MLC, ZELC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, ZELC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, ZELC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, ZELC

Entitlement identifier	Description	License option / pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, GOLC
S0171RX	V13 Transaction Manager QPP	Basic MLC, GOLC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, GOLC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, GOLC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, GOLC

Entitlement identifier	Description	License option / pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, PSLC (ABCD)
S0171RX	V13 Transaction Manager QPP	Basic MLC, PSLC (ABCD)
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, PSLC (ABCD)
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, PSLC (ABCD)
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, PSLC (ABCD)

Variable Workload License Charges

Entitlement identifier	Description	License option/ Pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, V-WLC
S0171RX	V13 Transaction Manager QPP	Basic MLC, V-WLC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, V-WLC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, V-WLC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, V-WLC

Entry Workload License Charge (EWLC)

Entitlement identifier	Description	License option/ Pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, Entry WLC
S0171RX	V13 Transaction Manager QPP	Basic MLC, Entry WLC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, Entry WLC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, Entry WLC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, Entry WLC

Entitlement identifier	Description	License option/ Pricing metric
S0171RV	V13 Extended Term Opt QPP	Basic MLC, ULC

S0171RX	V13 Transaction Manager QPP	Basic MLC, ULC
S0171RS	IMS V13 DataBase Manager QPP	Basic MLC, ULC
S0171RT	V13 DB-Level Tracking QPP	Basic MLC, ULC
S0171RW	V13 Recov Lvl Tracking QPP	Basic MLC, ULC

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<http://www.ibm.com/planetwide/us/>

Corrections

(Corrected on January 28, 2013)

In the Key prerequisites and Software prerequisites sections changed z/OS (5694-A04) V1.11, or later, to z/OS (5694-A04) V1.13, or later. In the Description section deleted information about Installation Verification Program (IVP) enhancements.