Price Changes on IBM IMS V9 and V10 Database Manager and Transaction Manager Software Program Products

Announcement Letter Number ZA12-1054
Europe Middle East and Africa, excluding Switzerland

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Price Changes on IBM IMS V9 and V10 Database Manager and Transaction Manager Software Program Products

Overview

Today, IBM announces price increases for selected System z programs and their features.

Effective with the billing period that starts on or after January 1, 2013, the monthly license charges (MLC) will increase for the following programs and its
features. IMS V9 will be priced consistent with the price of IMS V10 today, and IMS V10 will be priced consistent with the price of IMS V11.

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<td>S0108VK</td>
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<td>5655-J38</td>
<td>S0108VV</td>
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<td>5635-A01</td>
<td>S012K9W</td>
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Significant improvements have been delivered in IMS V9 and IMS V10 through the service stream since the programs were first released in 2004 and 2006 respectively. These changes have brought improved integration, availability, performance, and management. Collectively, these provide direct business value and add to the extensive capabilities and benefits of IMS V9 and V10.

**Key examples of improvements**

**IMS V9 enhancements foster integration:**
- Integrated Connect XML Adapter support for COBOL and PL/I enables reuse of IMS applications as Web services, leveraging open standards and tooling for client application interoperation independent of location, programming language and platform
- MFS Web support enhancements expand application usage, improve integrity and performance, and capacity for WebSphere Server access to IMS applications
- IMS TM Resource Adapter enhancements enable WebSphere Server access to IMS applications
- APPC/OTMA Program Switch without Affinity provides IMS Sysplex improved flexibility in workload balancing and availability
- Security Management Utility (SMU) to RACF Conversion Utility facilitates conversion from SMU to RACF

**IMS V9 enhancements extend availability:**
- Change status code GG to BA for PROCOPT GON/GOT clarifies the status of an unavailable HALDB partition
- HALDB Online Reorganization enhancements provide job flexibility to resume OLR on its own
- Display Active enhancements make information for a problem-causing region more readily accessible, which can reduce outage time and improve availability
IMS V10 enhancements foster integration:

- IMS Connect and Open Transaction Manager Access (OTMA) enhancements:
  - IMS Connect Cancel Client can help improve availability and performance
  - IMS Connect Client ID Hash Table provides more efficient processing for response messages through Connect from OTMA
  - IMS Connect expansion of the Exit Interface Block Data Store entry provides OTMA server availability information
  - Transaction Expiration support can reduce processing costs and CPU cycles for the unwanted transactions
  - IMS Connect IRL flag is provided for passing the transaction expiration time in the OTMA message prefix
  - IMS Connect and OTMA Retrieve ALT-PCB output enhancements provide flexibility in retrieving messages
  - OTMA Monitoring support simplifies detection and reporting to avoid application disruption
  - OTMA/Connect Callout error handling enhancements provide for extended error codes for Callout

- IMS Transaction Manager Resource Adapter enhancements:
  - WebSphere Transformation Extender (WTX) support provides faster standards compliance and improved data quality with automated data validation using industry and regulatory standards
  - Socket Reconnect support enhances availability and simplifies operations for a seamless recovery
  - Send Only Reroute support reroutes current Sync-Send (Send-Only) interactions for CM0
  - JCA 1.5 inbound support provides standards-based support for message-driven beans
  - Transaction Expiration support reduces CPU cycles for processing unwanted transactions
  - Synchronous Callout manages the correlation of a callout request, enables IMS applications to invoke external applications and synchronously receives a response in the same IMS transaction instance

- DFSMSCE0 Routing and Control user exit routine is enhanced to route transaction messages to a designated back-end IMS within the IMS Shared Queues Sysplex

- MFS Web Enablement tooling utility and runtime support enables existing or new IMS MFS-based applications for the Web and interactively renders them for display in standard browsers

- MFS Web Enablement Double Byte Character Set (DBCS) support provides: DBCS keyword support in MFS source, a web enablement tooling utility and runtime support for DBCS for the web, MFS parsing and Stylesheets supporting DBCS
- Persistent Java Virtual Machine (JVM) support in IMS Message Processing Programs (MPP), Batch Message Processing (BMP), and Fast Path (IFP) regions improves performance for leveraging Java from COBOL applications
- Type 2 Universal driver support for IMS Java Dependent Region runtime and for WAS for z/OS enhances connectivity from local z/OS environments

**IMS V10 enhancements simplifying management:**
- Dynamic LOCKTIME enhancement provides a dynamic command needed to allow the user to change the LOCKTIME value without a system outage
- Dynamic Resource Definition (DRD) maintenance utilities enhance usability and availability and ease migration to DRD
- SPOC (Single Point Of Control) Print Options expand to three new options, easing use

**IMS V10 enhancements that improve performance and extend availability:**
- DBRC Change Accum (CA) enhancement minimizes disruption to 24 X 7 operations due to CA utility failures
- DBRC DELETE.DB command improves performance and availability in re-establishing applications and data,
- OLR Display and Query statistics and DEL/NODEL option provides the display of additional information
- OLR Retain BYTES Field enhancement clarifies progress of OLR and makes statistics more readily usable
- Full Function Response Mode Recovery option allows full-function response mode to be recovered to help eliminate sequence problems
- Fast Path Data Entry Database DEDB Areas Different Access Levels allows a DEDB Area to be updated with a different access level than that of its DEDB, improving availability during change and access flexibility
- Fast Path DEDBs with Sequential Dependents (SDEPs) can now be defined as non-recoverable, extending earlier support for non-SDEPs. This provides a means for storing sequential data without the logging of database change records and enables increased workloads with less effort and less DASD usage
- Parallel Migration to HALDB enhances performance and enables improved availability and growth

**Key value of current IMS versions**

IMS V11 and IMS V12 are upwardly compatible from previous versions, allowing existing applications and data used with earlier versions to be used without change. Migration and coexistence support is provided for IMS V9 to IMS V10 or IMS V11 and from IMS V10 to IMS V11 or IMS V12.
IMS V11 and IMS V12, originally delivered in October 2009 and 2011, respectively, offer important features and enhancements that continue to build on the IMS tradition of high-performance, low-cost transaction processing by extending integration capabilities, removing operational constraints, and reducing path length.

IMS V11 Full Function Data Sharing and Shared Queues environments demonstrate equivalent or better performance than IMS V10 and the ability to scale up with the increased speed and storage available on IBM z10 processors. IMS V11 Fast Path users can take advantage of 64-bit storage for Fast Path database buffers thus reducing ECSA demand and allowing increased buffer growth to support additional workload. IMS V11 additionally replaces selected z/OS Contents Directory Entries (CDEs) with 64-bit storage, reducing LSQA requirements and supporting a new 64-bit ACB pool to practically eliminate ACBLIB I/O. IMS shared queues users should benefit from reduced false scheduling and its associated overhead with improved algorithms for scheduling. Using IBM DS8000 (2107-9B2), logging bandwidth rates of 135 megabytes per second were achieved on a System z10 with z/OS 1.10. This demonstrates the ability for IMS to support high volume logging requirements. IMS V11 Online Reorganization for HALDB provides reduced locking and logging overhead, allowing additional concurrent reorganizations and reduced elapsed and CPU times. These performance tests demonstrate that nothing matches the performance of IMS V11 and System z in transaction rates and database access.

IMS V12 supports many more storage pools using 64-bit real storage, allowing the possibility of more pools being page fixed, reducing the overhead of short-term z/OS page fix and free. Shared queues users should see increased benefit by the elimination of RRS overhead for many OTMA and APPC transactions processed on a back end IMS. IMS V12 also provides the ability to dynamically change Full Function database buffer pool specifications without having to recycle IMS. This will provide the ability to tune the buffer pools to significant changes in workload, thus providing optimum performance. IMS V12 Fast Path users can take advantage of additional 64-bit storage exploitation thus reducing ECSA demand and allowing increased buffer growth to support additional workload. When compared with a HDAM with the exact secondary indexing definitions, IMS V12 Fast Path Secondary Index support requires significantly less CPU due to the efficient Fast Path output thread process. IMS V12 also provides several enhancements to reduce internal IMS path length 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. IMS V12 continues to demonstrate that it can provide high performance, low cost transaction performance with absolute integrity for both messages and database.
Charges

Prices for these recurring charges (MLC) will be adjusted at price point level for each pricing metric. Average VWLC and AWLC increases for a 500 MSU configuration will be within a bandwidth of +9% to +11%, depending on the program product and the country. Average EWLC and AEWLC increases for a 150 MSU configuration will be within a bandwidth of +8% to +10% depending on the program product and the country. Average ULC increases for a 100 MSU configuration will be within a bandwidth of +7% to +10% depending on the program product and country.

Terms and Conditions

Terms and conditions of existing contracts will determine the applicability and specific effect of the price change.

Announcement Countries

European, Middle Eastern and African Countries excluding Switzerland.

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