

IBM Information Management System helps you begin your journey to the cloud

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At a glance

IBM^(R) Information Management System (IMS) helps your organization on its journey to the cloud. Taking advantage of the current generation of hardware and the IBM Z^(R) ecosystem, IMS V15.2 introduces several new key features to help make your digital transformation journey to the cloud more seamless.

IMS V15.2 brings enhancements and capabilities that can help:

- Transform your IT infrastructure into your cloud infrastructure:
 - Open access to IMS database through Java Database Connectivity (JDBC) and SQL enables your organization to fully use your data where it resides. From lowering development and operational costs to exploring new revenue streams, data management and optimization can be accomplished without moving your data off-platform.
 - For existing IMS assets, two-way communication with external applications (enabled by IBM z/OS^(R) Connect Enterprise Edition that use OpenAPI-conforming RESTful APIs) provides your organization with the capability to continue to build on and transform its existing infrastructure for new use cases, getting more value out of earlier investments.
 - For new IMS assets, expanding support for modern languages and DevOps tools empowers your developers with the speed, agility, and flexibility of the public cloud while still retaining the performance, security, and low costs of on-premises or private cloud environments.
- Integrate security-rich features into your enterprise in preparation for unexpected security issues:
 - Building on its pervasive encryption capabilities, IMS V15.2 takes advantage of the IBM z15TM enterprise platform to deliver the capability to manage the privacy of customer data, simplifying compliance certifications by enabling z/OS data set encryption of IMS data with minimal CPU overhead and no application changes.
 - Overflow Sequential Access Method (OSAM) encryption enables a greater portion of your data to be automatically encrypted, providing security-rich access to your IMS data without additional work.
- Understand and troubleshoot your data and infrastructure with more confidence:
 - With Data Privacy in Diagnostics, IMS V15.2 enables you to remove private identifiable information before shipping diagnostic information to IBM.

See the [Description](#) section for more detail on these and additional features.

IBM IMS Transaction Manager Value Unit Edition (VUE) V15 and IBM IMS Database Value Unit Edition V15 are also included in this announcement. These offer the

base IMS product and optional charge-based features at a one-time-charge (OTC) price metric solely for eligible workloads. Eligible workloads are defined as net new applications or workloads that are deployed in qualified z Systems^(R) New Application License Charge (zNALC) logical partitions (LPARs). See your IBM representative for more information and additional terms.

Overview

While cloud computing continues to expand and IT infrastructure increasingly becomes synonymous with cloud infrastructure, IMS V15.2 continues to bring enhancements that help make your digital transformation journey to the cloud more seamless. Using the continuous delivery model, IMS delivers both functional enhancements and product maintenance as soon as they become available, enabling you to innovate faster and remain agile. Periodically, new function and maintenance program temporary fixes (PTFs) are consolidated into a single package to simplify installation for clients that are migrating from previous versions. These updates have a new release number.

The expansive integration capabilities of IMS, coupled with its qualities of service, enable you to transform your IT infrastructure, including IMS, into your cloud infrastructure. IMS delivers the availability, scalability, and performance that are required for enterprise and integrated on-premise and hybrid cloud environments. IMS is also open and connected, enabling your organization to extend, connect, and innovate with trusted IMS applications, transactions, and data. That same data can help you gain valuable insights and take action on them more effectively.

OSAM data set encryption

System programmers can enable IBM Z hardware encryption for OSAM data without changes to applications and without experiencing outages.

Data privacy for diagnostics support for IMS 64-bit storage

This feature supports the capability to redact data in client data dumps to protect data privacy in diagnostics.

Passphrase support for IMS Connect API and universal drivers

An IMS Connect client can enter a password of 1 - 8 characters or a passphrase of 9 - 100 characters, which may help IMS clients meeting their internal security requirements.

Capability to IMPORT by NAME

An IMS professional (such as an application programmer, database administrator, or system programmer) can selectively import IMS database descriptors (DBDs) or Program Specification Blocks (PSBs).

IMPORT OPTION (NOCHECK)

An IMS professional (such as an application programmer, database administrator, or system programmer) can import DBD changes without having all associated PSBs.

Reduction of Open Transaction Manager Access (OTMA) message processing delays

Applications with heavy OTMA transaction processing have reduced processing delays.

IMS Universal drivers ByteBuffer enhancement

An application developer can retrieve, insert, and update a full unmapped record from an IMS database, enabling the developer to use their own complex data mapping or schemas and avoiding the need to conform to the specific datatypes that are currently defined to the IMS catalog.

IMS Universal drivers ArrayResultSet enhancement

An application developer can dynamically retrieve arrays that are less than the minimum and maximum lengths specified in the DBD, limiting the need to handle NULL array elements and increasing the speed of development.

REXXIMS MAPDEF packed decimal function enhancement

An independent software vendor (ISV) or application developer can use REXXIMS to access complete packed decimal fields within IMS records.

Member Online Change (MOLC)

MOLC provides the capability to implement nonstructural changes to DBDs without requiring referencing PSBs.

An IMS system programmer or database administrator can perform member online change for a nonstructural DBD change without requiring PSBs that reference the DBD.

See the [Description](#) section for more detail about features.

Key requirements

IMS V15.2 interoperates with:

- IBM z/OS
- IBM Z processor
- Java
- Internal Resource Lock Manager (IRLM)
- IBM Db2^(R) for z/OS
- IBM CICS^(R)
- IBM MQ
- IBM WebSphere^(R) Application Server
- COBOL

See the [Technical information](#) section for details.

Planned availability date

March 20, 2020

Description

OSAM data set encryption

IMS V15.2 is enhanced to support Virtual Storage Access Method (VSAM) linear data sets (LDS) as an optional data set format for OSAM databases. Using linear data sets, database administrators can utilize z/OS data set encryption to encrypt OSAM data without changes to applications and without experiencing outages. Programs that access an OSAM database through IMS (online or batch) will continue to work with VSAM linear data sets. Utilities and database recovery control (DBRC) commands have been enhanced to support VSAM linear data sets.

Data privacy for diagnostics support for IMS 64-bit storage

Support for the capability to redact data in client data dumps to protect data privacy in diagnostics.

Requests for certain 64-bit storage objects within IMS are made specifying the IARV64 SENSITIVE= parameter to tag the storage as possibly containing or not containing customer sensitive data. Certain areas that can contain sensitive data (for example, Fast Path 64-bit buffers and logger 64-bit buffers) are tagged as sensitive. Other areas that contain only IMS internal control type data (for example, storage tracking elements, internal performance statistics, and resource data) are tagged as not sensitive.

When IMS runs on an IBM z15 processor, or higher, and on z/OS V2.3, or later, with z/OS APARs [OA57570](#) and [OA57633](#), the sensitive or not-sensitive storage tags are included as metadata in System Storage™ SAN Volume Controller (SVC) dumps and stand-alone dumps (SADUMPs) of IMS storage. You can use the z/OS-provided JCL BLSJD PFD in SYS1.SAMPLIB to create a redacted copy of a dump. Storage marked as sensitive is excluded from this copy. Storage marked as not sensitive is included in this copy. See [Data Privacy for Diagnostics \(DPfD\)](#) documentation for additional details.

Passphrase support for IMS Connect API and Universal drivers

An IMS Connect client can enter a password of 1 - 8 characters or a passphrase of 9 - 100 characters which may help IMS clients meeting their internal security requirements.

IMS Connect is enhanced to support 9 - 100 character password phrases for IMS Database clients, and IMS Transaction Manager user-provided clients that are using HWSSMPL0, HWSSMPL1, or equivalent exit routines.

For IMS Database clients, IMS Connect allows passwords or password phrases with up to 100 characters in the existing SECCHK code point. Passwords with lengths up to 8 characters are passed to Resource Access Control Facility or (RACF[®]) as a password. Password phrases with lengths greater than 8 characters and up to 100 characters will be passed to RACF as a password phrase. IMS Connect will continue to reject any password length greater than 100 characters, and will send message HWSK2855E R=INVPWLN to the client.

For IMS Transaction Manager clients using HWSSMPL0, HWSSMPL1, or equivalent RYO (roll-your-own) exit routines, IMS Connect processes password phrase IRM extensions identified with the PHRASE identifier. As with existing Transaction Manager Resource Adapter (TMRA) client support in the HWSJAVA0 exit, this IRM extension can be used to specify a 9 - 100 character password phrase. The IMS-supplied HWSSMPL0 and HWSSMPL1 exits are enhanced to process the PHRASE IRM extension, and to return the password phrase to IMS Connect.

Capability to import by NAME

An IMS professional (such as an application programmer, database administrator, or system programmer) can selectively import DBDs or PSBs.

IMPORT DEFN SOURCE(CATALOG) command is enhanced to support NAME() keyword to import only specific DBDs and PSBs from the staging directory data set to the active directory data set. One or more DBD or PSB names may be specified, including wildcard names.

NAME() specifies one or more 1 - 8 character names of database DBD or program PSB resources to import from the staging directory to the active directory. Wildcard names can be specified. The name is a repeatable parameter. If the NAME parameter is specified (it can be a specific name or a wildcard name), command responses are returned for all the resource names that are processed. NAME is an optional parameter, and if not specified, it defaults to NAME(*). Duplicate names are ignored. For example, IMPORT DEFN SOURCE(CATALOG) NAME(DB1,DB2*,PSB1,PSB2%%) is a valid combination of DBD or PSB name parameters. When NAME(*) is specified, all of the ACBs in the staging directory are

imported. This is equivalent to `IMPORT DEFN SOURCE(CATALOG)` command with no `NAME` keyword. If you specify `NAME(*)`, it is not supported with any other `NAME` parameters.

Import option (NOCHECK)

An IMS professional (such as an application programmer, database administrator, or system programmer) can import DBD changes without having all associated PSBs.

A new `OPTION(NOCHECK)` is added to `IMPORT DEFN SOURCE(CATALOG)` command and a new `OPTION(NOCHECK)` can be used with existing `IMPORT DEFN` options:

- Adds support to import database resources with database nonstructural changes that are built by using `DFS3UACB` utility with `BLDPSB=NO` or `DDL` that do not include their associated PSBs for the databases in the IMS Catalog staging directory.
- Adds support to import database resources with database structural changes to have a minimum of one associated PSB to be included in staging directory when all PSBs are not required to be rebuilt.
- Adds support to import database resources with database structural changes to bypass catalog directory scan for associated PSBs for the changed databases. The catalog directory scan process can be time-consuming when the catalog directory contains a large number of members.

Reduction of OTMA message processing delays

Applications with heavy OTMA transaction processing have reduced processing delays.

- A new itask under a new OID TCB processes the following OTMA messages in the shared queues environment:
 - Shared queues notification messages for CMO IOPCB output messages from back-end IMS
 - Shared queues notification messages for ALTPCB output message from back-end IMS with super member defined
- Modified TPIPE cleanup process for better throughput:
 - TPIPE hash table is expanded from 127 hash entries to 509 hash entries.
 - The `IWAIT` for TPIPE cleanup has been reduced.
- Enhanced TPIPE flood control:
 - `MAXTPWN` is added to OTMA client descriptor and `DFSOTMA` descriptor to set the warning level from 50 to 95 for the `MAXTP`.
 - `MAXTPRL` is enhanced to set the relief level from 50 to 95.

IMS Universal drivers ByteBuffer enhancement

This enhancement eases open access of IMS database without requiring changes to the IMS database metadata. An application developer can retrieve, insert, and update full unmapped records from an IMS database, enabling the use of the developer's own complex data mapping or schemas and avoiding the need to conform to the specific datatypes that are currently defined to the IMS Catalog.

IMS Universal drivers ArrayResultSet enhancement

This enhancement enables programmatic access of array fields defined in IMS database. An application developer can dynamically retrieve arrays that are less than the minimum and maximum lengths specified in the DBD, limiting the need to deal with `NULL` array elements and increasing the speed of development.

REXXIMS MAPDEF packed decimal function enhancement

This improvement enhances the IMS adapter `REXXIMS` to increase the maximum `MAPDEF` length value to 16 bytes for packed(P) and 32 bytes for zoned(Z). Additionally, the scale (`.digit`) specification is increased to allow 0 to 31 digits for

both P and Z specifications. The scale indicates the number of digits to the right of a decimal point when converting the number. MAPGET and MAPPUT are changed to support the longer P and Z length values, as well as the increased scale of a decimal number.

Member Online Change

This improvement provides the capability to implement non-structural changes to DBD without requiring referencing PSBs.

The INITIATE MOLC command has been enhanced to support the BLDPSBNO keyword to ignore the reference list of PSBs for non-structural updates of DBDs. If the DBD has a structural change MOLC will not be performed if BLSPSBNO is specified and indicate this reason.

IBM is committed to a continuous delivery roadmap that delivers regular capability updates. The following table lists the enhancement included in the current IMS V15.2 release that were shipped by continuous delivery:

Capability	Availability Method
Enhanced IMS HWSC0010I welcome message	IMS V15.1 APAR PI91859
Log record read progress message issue at restart	IMS V15.1 APAR PH01551
Parallel DL/I mode indicator added to application schedule log record	IMS V15.1 APAR PI99293
Improved usability by displaying use of zHyperWrite	IMS V15.1 APAR PI82325
Enhanced catalog API capabilities	IMS V15.1 APARs PI84981, PI90082, PI84986
Faster Open Transaction Manager Access (OTMA) output message processing	IMS V15.1 APAR PI96089
Enhanced LUMP storage pool defaults for OTMA output messages	IMS V15.1 APAR PH01051
Enhanced transaction pipe (TPIPE) cleanup	IMS V15.1 APAR PI88409
Improved online log data sets (OLDS) disk replication performance	IMS V15.1 APAR PI75575
Change data capture enhancement	IMS V15.1 APAR PH00728
Universal driver enhancements	IMS V15.1 APAR PI95663
Open Database Manager (ODBM) and JDBC driver support for INIT STATUS GROUPx Call	IMS V15.1 APARs PH00366 and PH02698
Control segment mapping support	IMS V15.1 APARs PI97302 and PH03426
Improved security of user authentication information	IMS V15.1 APARs PI99040 and PH02135
Enhanced security options for ODBM	IMS V15.1 APAR PI94682
Easy encryption of IMS DEDB data through the use of z/OS data set encryption	IMS V15.1 APAR PI83756
Function level activation control	IMS V15.1 APAR PI83839
Batch DDL utility enhancement	IMS V15.1 APAR PH02397
Capability to enable or disable zHyperWrite	IMS V15.1 APAR PH02149
Automatic start of CSL address spaces enhancement	IMS V15.1 APAR PH04044
Enhanced diagnostics for distributed clients accessing IMS using the Open Database solution	IMS V15.1 APAR PH07679
Enhanced LUMP storage for OTMA output messages	IMS V15.1 APARs PH00002, PH12624
Data Privacy for Diagnostics Support for IMS 64-bit Storage	IMS V15.1 APAR PH14059
Passphrase Support for IMS Connect API and Universal Drivers	IMS V15.1 APAR PH14651
IMPORT by NAME	IMS V15.1 APAR PI83433

Capability	Availability Method
IMPORT OPTION(NOCHECK)	IMS V15.1 APAR PH09142
Reduce Open Transaction Manager Access (OTMA) message processing delays	IMS V15.1 APAR PH02371
IMS Universal Drivers ByteBuffer Enhancement	IMS V15.1 APAR PH14157
IMS Universal Drivers ResultSet Enhancement	IMS V15.1 APAR PH14157
REXXIMS MAPDEF packed decimal function enhancement	IMS V15.1 APAR PH16409
Member Online Change capability to implement non-structural changes to DBD without requiring referencing PSBs	IMS V15.1 APAR PH16612

For new IMS V15 clients, see the [Ordering Information](#) section.

For existing IMS V15 clients that want to move to IMS V15.2, obtain the IMS V15.2 Release Marker PTFs (APAR PH16682 and APAR PH16683) and apply the PTFs as you would any other PTF. Applying the Release Marker PTF requires you to apply all prior maintenance to IMS, and facilitates the enabling of OSAM data set encryption and the disablement of Extended Recovery Facility (XRF).

Disablement of XRF

IMS V15.2 does not support the IMS XRF function. The HSBID and HSBMBR parameters will not take effect if specified as IMS startup parameters or specified in IMS PROCLIB member DFSPBxxx. PROCLIB member DFSHSBxx is not read into the system.

An existing XRF active system is started as a non-XRF system. XRF related commands as shown below are no longer accepted on IMS V15.2, and later:

- /ERE BACKUP to perform a manual restart of an IMS XRF alternate system
- /DISPLAY HSB command to display the system-related information in an XRF environment
- /SWITCH for an active XRF subsystem
- /SWITCH for an alternate XRF subsystem
- /START SURV command in an XRF environment to start the operation of the IMS surveillance function
- /STOP SURV command in an XRF environment to stop the operation of the IMS surveillance function

Migration considerations related to disablement of XRF

In IMS V15.2, IMS XRF is no longer supported. If an IMS V15.1 system was running with XRF active, XRF will no longer be active after migrating to IMS V15.2. If a warm start is attempted for the system that is an IMS V15.1 XRF active system, ABENDU0175 will occur with message DFS0739X ERROR READING IMS LOG RC=1F DDNAME=UNKNOWN LOG. A cold start of the IMS is required after migration. Note that the need to cold start in this case is due to the change from XRF to non-XRF. A non-XRF system can be migrated from IMS V15.1 to IBM V15.2 with a simple warm start.

In the XRF system, access to application databases and logs is through DASD that is shared by the active and the alternate systems. After the IMS release level is upgraded to IMS V15.2, each IMS must have its own log data sets. You can start one IMS only without changing. If you need to start the other system, make sure it has its own log data sets (OLDS, WADS, RDS, and so on).

For any existing IMS V15 client that wants to remain on IMS V15.1, do not apply the IMS V15.2 Release Marker PTF. Clients that remain on IMS V15.1 will not be able to exploit specific IMS V15.2 capabilities until the IMS V15.2 Release Marker PTF is applied. The following list of IMS V15.2 capabilities are enabled or disabled by the IMS V15.2 Release Marker PTF:

- OSAM data set encryption
- Disablement of XRF

All other capabilities in this announcement are enabled for IMS Version V15.

IBM IMS tools

IMS tools provide on-demand, application-specific solutions for database management, systems management, and performance management. Designed to optimize data across your enterprise, IMS tools deliver the reliability and affordability that you need to help increase the value of your IMS environment. All currently supported IBM IMS tools have day one toleration support for IMS V15.2. Currency support will be delivered through PTFs. Some products require updates to exploit new function available in IMS V15.2 or to support user input that specifies IMS V15.2. For more information, see the [IBM IMS Tools and IMS Version 15 Compatibility](#) website.

IMS Connect Extensions for z/OS (5698-CEX) is enhanced by APAR PH16143 (PTF UI65791) to support password phrases that use the API and protocol changes delivered with the IMS Passphrase Support for IMS Connect API and Universal drivers.

In addition to data privacy for diagnostics support of redacting client data dumps, IMS tools can help you obfuscate sensitive data from IMS logs before they are shared with vendors or others as needed. For more information, see the SCRUB utility that is available in the no-charge [IBM Common Services Library for z/OS](#) (5655-CSL). An enhanced version of the SCRUB utility that supports additional log types is also available in [IMS Problem Investigator for z/OS](#) (5655-R02).

IMS tools are continuously updated to support OSAM encryption. See the [IBM Support IBM IMS Tools and Data Set Encryption Support](#) website for details on any service that is required for each tool to support OSAM and VSAM encryption.

With the stabilization of Syntax Checker in IMS, clients can consider [IBM IMS Configuration Manager for z/OS](#) (5655-WR2). IMS Configuration Manager can reduce IMS configuration errors, save time, and identify potential configuration problems by helping you analyze, manage, and compare IMS configurations. It automatically builds an inventory of your IMS topology and enables you to quickly drill down into the resource and parameter details of every IMS system. IMS Configuration Manager is designed to provide an easy, systematic, and helpful approach to creating, maintaining, and auditing IMS system parameters, and makes IMS system, resource, and parameter configurations more accessible to system programmers and developers. IMS Configuration Manager can be used to get a high-level view of your systems, quickly compare configurations across your IMSplex, and review the history of changes to IMS parameters over time.

Product positioning

An investment in IMS is not only an investment in your database or transaction manager, it is also a step forward in your digital transformation journey. IMS V15 is purpose-built for your journey to the cloud. IMS is serving as a key enabler in this transformation for IBM clients' organizations around the world, and IMS can continue be the heart of your enterprise. IMS delivers some of the highest levels of availability, scalability, and performance that are required for enterprise and integrated on-premises and cloud environments. It is open and connected, so that you can extend, connect, and innovate with trusted IMS applications and transactions.

IMS V15 complements IBM CICS, IBM Db2 for z/OS, and IBM WebSphere servers for enterprise database and transaction management. Expansive integration capabilities help position IMS at the center of a multitier enterprise architecture. IMS operational data can be accessed by business intelligence (BI) and analytics tools. IMS data can be accessed directly or propagated and replicated with relational data in support of BI. IBM offerings include standard application interfaces and drivers to access

IMS and other data. Both relational data and hierarchical IMS data can be efficiently accessed, together or independently, by using the IMS Transaction Manager, CICS, and WebSphere servers. IMS Transaction Manager offers application management, data storage, and data access, and applies strict rules for this access.

IBM and IMS continue to support new levels of tooling and integration. Enterprise clients can use IBM z/OS Connect Enterprise Edition, IBM Developer for z/OS, IBM Application Discovery and Delivery Intelligence, and other offerings 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 by using industry-standard, Java database connectivity (JDBC) and SQL.

Statement of direction

Syntax Checker and z/OS Workload Interaction Correlator

Syntax Checker

IMS is stabilizing Syntax Checker. IBM will no longer invest in enhancing this feature and intends to remove the feature from all future product releases.

z/OS Workload Interaction Correlator

With the recent announcement of z/OS Workload Interaction Correlator (zWIC), IBM is delivering an infrastructure to be consumed by both z/OS and middleware exploiters. This synchronized, standardized approach to data generation would enable the capability to dynamically define and correlate disparate client specific performance anomalies without a predefined policy. This correlation capability would help clients implicate or exonerate workload components, where correlated anomalous activities are implicated and nonanomalous activities are exonerated. IMS intends to exploit zWIC's infrastructure to provide data related to IMS activities

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For more details about z/OS Workload Interaction Correlator, see Software Announcement [LP20-0044](#), dated January 21, 2020.

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

Reference information

For more information about IMS V15 and the continuous delivery support model, see Software Announcement [LP17-0489](#), dated October 3, 2017.

Program number

Program number	VRM	Program name
5635-A06	15.2.0	IBM Information Management System
5655-DS5	15.2.0	IBM Information Management System Database Value Unit Edition
5655-DSR	1.1.0	IBM Information Management System Database Value Unit Edition S&S
5655-TM4	15.2.0	IBM Information Management System Transaction Manager Value Unit Edition
5655-TMS	1.1.0	IBM Information Management System Transaction Manager Value Unit Edition S&S

Technical information

Specified operating environment

Hardware requirements

IMS V15 runs only in z/Architecture^(R) mode on an IBM System z10^(R) processor, or higher.

Software requirements

The following minimum version, release, or modification levels are supported for interoperation with IMS V15 (while these versions remain available and supported by IBM):

- z/OS V2.2 (5650-ZOS), or later
 - DFSMS V2.2 APAR OA50569 and its prerequisite and corequisite APARs for data set encryption support
 - z/OS 2.3, or later, with z/OS APARs [OA57570](#) and [OA57633](#) for data privacy for Diagnostics Support for IMS 64-bit Storage
- RACF included in a separately orderable Security Server feature of z/OS V2.2) or equivalent, if security is used
- IBM High-Level Assembler Toolkit (a separately orderable feature of z/OS V2.2)
- Java Development Kit (JDK) 8, if using IMS Universal drivers or Java dependent regions
- Db2 for z/OS, V11 (5615-DB2), or later
- IRLM V2.3 (5635-A06), or later, if data sharing is used; IRLM is delivered with IMS V15
- CICS V5.2 (5655-Y04), or later
- IBM MQ (5724-H72) V8.0, or later
- WebSphere Application Server for z/OS (5655-W65) or WebSphere Application Server for distributed platforms, V8.5.5 (5724-J08)
- COBOL V5.1 (5655-W32), or later, with IMS coprocessor support, if using IMS SQL support for COBOL application programs

- System-Managed CF Structure Duplexing is recommended, though not required, for the Resource Manager resource structure

IMS V15 is written in High Level Assembler, PL/X, C, C++, and Java

Request for Enhancements

Not all features associated with these requirements are referenced in this announcement, even though they have been delivered. See the IMS information in IBM Knowledge Center for more information about enhancements not covered in this announcement.

Request for Enhancement (RFE) list

RFE number	Enhancement description
RFE 82078	Flag in X'07' or X'08' log records for PARDLI=
RFE 121301	Improve function to suppress writing x'99' logs for updates conducted by IIDR Target Server
RFE 121425	ODBM and IMS DB Universal JDBC Driver Support for ODBM INIT STATUS GROUP at APSB time
RFE 101094	DDL SQL batch passticket support
RFE 104364	IMS database dependent segment layout mapping based on root segment value
RFE 42151	Allow IMS to start CSL tasks if not started even with RMENV=Y
RFE 112900	Convert existing PSB/DBD to DDL statements in batch
RFE 113585	Batch utility to create DDL statement from existing IMS managed ACB metadata
RFE 116198	Adding a new "status code" on DPSB calls when Commit/Rollback has not been done prior in a ODBM configuration
RFE 126486	Passphrase support for HWSSMPL1 (connect API)
RFE 124139	IMS Explorer does not accept more than an 8-character password and does accept passphrases.
RFE 124665	IMS Catalog with mACB. IMPORT Cmd extension
RFE 128416	Easy SQL access to complex array structures in IMS databases
RFE 100612	Enhance IMS JMS API or IMS JDR resource adapter for easier processing of synchronous program switch messages
RFE 83518	Expand REXXIMS MAPDEF Packed Decimal function
RFE 132147	ACBLIB member OLC for DBD change

Ordering information

Ordering z/OS through the internet

Shopz provides an easy way to plan and order your z/OS packaged offering. 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). Shopz is available all countries. For more details and availability, go to the [Shopz](#) website.

New licensees

Orders for new licenses can be placed now.

Registered clients 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 V15.2 should specify: **Type: 5635 Model: A06**

CFSW configuration and order entry capability are available.

This product is eligible for Country Multiplex License Charge (CMLC) pricing metric. For more information regarding CMLC, see Software Announcement [LP15-0317](#), dated July 28, 2015.

Parallel Sysplex license charge (PSLC)

Parallel Sysplex^(R) 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 V15

Program PID: 5635-A06

Element Identifier	Description	Licensing option/ Pricing metric
S018211	IMS TM V15	Basic License Monthly Charge Parallel Pricing (Capacity 1 or 2 MSU)
S018212	IMS ETO V15	Basic License Monthly Charge Parallel Pricing (Capacity 1 or 2 MSU)
S018214	IMS DB Mgr V15	Basic License Monthly Charge Parallel Pricing (Capacity 1 or 2 MSU)
S018211	IMS TM V15	Basic License Monthly Charge PSLC up to level D MSU Capacity
S018212	IMS ETO V15	Basic License Monthly Charge PSLC up to level D MSU Capacity
S018214	IMS DB Mgr V15	Basic License Monthly Charge PSLC up to level D MSU Capacity
S018211	IMS TM V15	Basic License One Time Charge-alternative Parallel Pricing (Capacity 1 or 2 MSU)
S018212	IMS ETO V15	Basic License One Time Charge-alternative Parallel Pricing (Capacity 1 or 2 MSU)
S018214	IMS DB Mgr V15	Basic License One Time Charge-alternative Parallel

Element Identifier	Description	Licensing option/ Pricing metric
		Pricing (Capacity 1 or 2 MSU)
S018211	IMS TM V15	Basic License One Time Charge-alternative PSLC up to level D MSU Capacity
S018212	IMS ETO V15	Basic License One Time Charge-alternative PSLC up to level D MSU Capacity
S018214	IMS DB Mgr V15	Basic License One Time Charge-alternative PSLC up to level D MSU Capacity
S018211	IMS TM V15	System Usage Registration No Charge PSLC up to level D MSU Capacity
S018212	IMS ETO V15	System Usage Registration No Charge PSLC up to level D MSU Capacity
S018214	IMS DB Mgr V15	System Usage Registration No Charge PSLC up to level D MSU Capacity

Orderable supply ID	Language	Description
S0186GL	US English	BM Information Management System Extended Terminal Option V15.1
S0186GK	US English	IBM Information Management System Transaction Manager V15.1
S0186GJ	US English	IBM Information Management System DataBase Manager V15.1
S018HBM	US English	IBM Information Management System Extended Terminal Option V15.2
S018HBN	US English	IBM Information Management System Transaction Manager V15.2
S018HBL	US English	IBM Information Management System DataBase Manager V15.2

International Program License Agreement

The IMS Transaction Manager Value Unit Edition and Database Value Unit Edition offerings have one charge unit: Value Units.

Program number	Program name	Value unit exhibit
5655-TM4	Information Management System Transaction Manager Value Unit Edition V15	VUE001
5655-DS5	Information Management System Database Value Unit Edition V15	VUE001

Program name: IBM IMS Transaction Manager Value Unit Edition V15

Program PID: 5655-TM4

Entitlement identifier	Description	License option/ Pricing metric
S0187DS	IMS ETO VUE V15	Multi-Version Measurement No Charge Value Units
S0187DS	IMS ETO VUE V15	On Off Capacity on demand Temporary Use Charge MSU-DAY(s)
S0187DS	IMS ETO VUE V15	Use-Based License One-Time Charge Value Units
S0187DT	IMS TM VUE V15	Multi-Version Measurement No Charge Value Units
S0187DT	IMS TM VUE V15	On Off Capacity on demand Temporary Use Charge MSU-DAY(s)
S0187DT	IMS TM VUE V15	Use-Based License One-Time Charge Value Units
Orderable Supply ID	Language	Description
S0187DW	English US	IBM IMS Extended Terminal Option VUE V15.1
S0187DV	English US	IBM IMS Transaction Manager Value Unit Edition V15.1
S018G21	English US	IBM IMS Extended Terminal Option VUE V15.2
S018G22	English US	IBM IMS Transaction Manager Value Unit Edition V15.2

Subscription and Support**Subscription and Support PID: 5655-TMS**

Orderable supply ID	Language	Description
S017K0V	US English	IBM IMS Transaction Manager Value Unit Edition Subscription & Support
S017K41	US English	IBM IMS Extended Terminal Option Value Unit Edition Subscription & Support

Program name: IBM IMS Database Value Unit Edition V15**Program PID: 5655-DS5**

Entitlement Identifier	Description	License Option/Pricing Metric
S017XHH	IMS Database Value Unit Ed V15	Multi-Version Measurement No Charge Value Units
S017XHH	IMS Database Value Unit Ed V15	On Off Capacity on demand Temporary Use Charge MSU-DAY(s)
S017XHH	IMS Database Value Unit Ed V15	Use-Based License One-Time Charge Value Units
Orderable Supply ID	Description	Language
S017XHG	IBM Information Management System Database Value Unit Edition V15.1	English US

Orderable Supply ID	Description	Language
S018G24	IBM Information Management System Database Value Unit Edition V15.2	English US

Subscription and Support PID: 5655-DSR

Entitlement Identifier	Description	License Option/Pricing Metric
S017864	IMS Database Value Unit Edition Subscription & Support	Decline Subscription and Support No Charge Value Unit
S017864	IMS Database Value Unit Edition Subscription & Support	MultiVersion Measurement S&S No Charge Value Units
S017864	IMS Database Value Unit Edition Subscription & Support	SW Subscription and Support Annual Support Charge Value Units
S017864	IMS Database Value Unit Edition Subscription & Support	SW Subscription and Support Monthly Support Charge Value Units
S017864	IMS Database Value Unit Edition Subscription & Support	SW Subscription and Support Registration (minus Supply right) No Charge Per MSU

Orderable supply ID	Description	Language
S017863	IBM Information Management System Value Unit Edition Database Server Subscription & Support	English US

Advanced Workload License Charges (AWLC)

Advanced Workload License Charges (AWLC) basic license

To order a basic license, specify the program number and quantity of MSUs. 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 AWLC 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: IMS V15

Program PID: 5635-A06

Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS TM V15	Basic License Monthly Charge Advanced Workload License Charge
S018212	IMS ETO V15	Basic License Monthly Charge Advanced Workload License Charge
S018214	IMS DB Mgr V15	Basic License Monthly Charge Advanced Workload License Charge
S018211	IMS TM V15	Basic License One Time Charge-alternative Advanced Workload License Charge
S018212	IMS ETO V15	Basic License One Time Charge-alternative Advanced Workload License Charge

Entitlement ID	Description	License Option/Pricing Metric
S018214	IMS DB Mgr V15	Basic License One Time Charge-alternative Advanced Workload License Charge
S018211	IMS TM V15	Workload Registration No Charge Advanced Workload License Charge
S018212	IMS ETO V15	Workload Registration No Charge Advanced Workload License Charge
S018214	IMS DB Mgr V15	Workload Registration No Charge Advanced Workload License Charge

Advanced Entry Workload License Charges (AEWLC)

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

Program name: IBM IMS V15

Program PID: 5635-A06

Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS TM V15	Basic License Monthly Charge AEWLC - Advanced Entry WLC
S018212	IMS ETO V15	Basic License Monthly Charge AEWLC - Advanced Entry WLC
S018214	IMS DB Mgr V15	Basic License Monthly Charge AEWLC - Advanced Entry WLC
S018211	IMS TM V15	Basic License One Time Charge-alternative AEWLC - Advanced Entry WLC
S018212	IMS ETO V15	Basic License One Time Charge-alternative AEWLC - Advanced Entry WLC
S018214	IMS DB Mgr V15	Basic License One Time Charge-alternative AEWLC - Advanced Entry WLC

Country Multiplex License Charges (CMLC)

Country Multiplex License Charges (CMLC) basic license

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

If there is more than one program copy in a Country Multiplex, the charge for all copies is associated to one license if all the copies are licensed to one customer number within the multiplex. If there is more than one customer number, the charge for all copies is prorated to one license for each customer within the multiplex

For each license being charged, specify the applicable CMLC license options and the prorated quantity of the Service Units in Millions (MSUs) for each customer number within the multiplex. For all other program copies, specify the Workload Registration No-Charge (WLREG NC) Identifier on the licenses.

Program name: IBM IMS V15

Program PID: 5635-A06

Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS TM V15	Basic License Monthly Charge Country Multiplex License Charge
S018212	IMS ETO V15	Basic License Monthly Charge Country Multiplex License Charge
S018214	IMS DB Mgr V15	Basic License Monthly Charge Country Multiplex License Charge
S018211	IMS TM V15	Workload Registration No Charge Country Multiplex License Charge
S018212	IMS ETO V15	Workload Registration No Charge Country Multiplex License Charge
S018214	IMS DB Mgr V15	Workload Registration No Charge Country Multiplex License Charge

Variable Workload License Charge (VWLC)

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

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 Variable WLC license options and the quantity represented by the sum of the Service Units in Millions (MSUs) in the Parallel Sysplex. For all other program copies, specify the Workload Registration No-Charge (WLREG NC) Identifier on the licenses.

Program name: IBM IMS V15

Program PID: 5635-A06

Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS TM V15	Basic License Monthly Charge Variable Workload License Charge
S018212	IMS ETO V15	Basic License Monthly Charge Variable Workload License Charge
S018214	IMS DB Mgr V15	Basic License Monthly Charge Variable Workload License Charge
S018211	IMS TM V15	Basic License One Time Charge-alternative Variable Workload License Charge
S018212	IMS ETO V15	Basic License One Time Charge-alternative Variable Workload License Charge
S018214	IMS DB Mgr V15	Basic License One Time Charge-alternative Variable Workload License Charge
S018211	IMS TM V15	Workload Registration No Charge Variable Workload License Charge
S018212	IMS ETO V15	Workload Registration No Charge Variable Workload License Charge
S018214	IMS DB Mgr V15	Workload Registration No Charge Variable Workload License Charge

Entry Workload License Charge (EWLC)

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

Program name: IBM IMS V15

Program PID: 5635-A06

Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS TM V15	Basic License Monthly Charge Entry Workload License Charge
S018212	IMS ETO V15	Basic License Monthly Charge Entry Workload License Charge
S018214	IMS DB Mgr V15	Basic License Monthly Charge Entry Workload License Charge
S018211	IMS TM V15	Basic License One Time Charge-alternative Entry Workload License Charge
S018212	IMS ETO V15	Basic License One Time Charge-alternative Entry Workload License Charge
S018214	IMS DB Mgr V15	Basic License One Time Charge-alternative Entry Workload License Charge

IBM Z Usage License Charge

IBM Z Usage License Charge, basic license

Specify the applicable IBM 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.

The customer pricing will be determined by selecting either:

Entitlement identifier	Description	License option/ Pricing metric
S018211	IMS TM V15	Basic License Monthly Charge Usage License Charge (Non-Cumulative) up to 0.5 MSU
S018212	IMS ETO V15	Basic License Monthly Charge Usage License Charge (Non-Cumulative) up to 0.5 MSU
S018214	IMS DB Mgr V15	Basic License Monthly Charge Usage License Charge (Non-Cumulative) up to 0.5 MSU
S018211	IMS TM V15	Basic License Monthly Charge Usage License Charge Measured Usage above 0.5 MSU
S018212	IMS ETO V15	Basic License Monthly Charge Usage License Charge Measured Usage above 0.5 MSU
S018214	IMS DB Mgr V15	Basic License Monthly Charge Usage License Charge Measured Usage above 0.5 MSU

Entitlement identifier	Description	License option/ Pricing metric
S018211	IMS TM V15	System Usage Registration No Charge Usage License Charge Measured Usage above 0.5 MSU
S018212	IMS ETO V15	System Usage Registration No Charge Usage License Charge Measured Usage above 0.5 MSU
S018214	IMS DB Mgr V15	System Usage Registration No Charge Usage License Charge Measured Usage above 0.5 MSU

Growth opportunity license charge (GOLC)

To order a basic license, specify the program number and the machine model.

Program name: IBM IMS V15

Program PID: 5635-A06

Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS TM V15	Basic License Monthly Charge Growth Opportunity Processor Based Charges
S018212	IMS ETO V15	Basic License Monthly Charge Growth Opportunity Processor Based Charges
S018214	IMS DB Mgr V15	Basic License Monthly Charge Growth Opportunity Processor Based Charges
S018211	IMS TM V15	Basic License One Time Charge-alternative Growth Opportunity Processor Based Charges
S018212	IMS ETO V15	Basic License One Time Charge-alternative Growth Opportunity Processor Based Charges
S018214	IMS DB Mgr V15	Basic License One Time Charge-alternative Growth Opportunity Processor Based Charges

IBM Z entry license charge (zELC)

To order zELC software, specify the program number and machine model.

Program name: IBM IMS V15

Program PID: 5635-A06

Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS TM V15	Basic License Monthly Charge zSeries Entry License Charge
S018212	IMS ETO V15	Basic License Monthly Charge zSeries Entry License Charge
S018214	IMS DB Mgr V15	Basic License Monthly Charge zSeries Entry License Charge

Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS TM V15	Basic License One Time Charge-alternative zSeries Entry License Charge
S018212	IMS ETO V15	Basic License One Time Charge-alternative zSeries Entry License Charge
S018214	IMS DB Mgr V15	Basic License One Time Charge-alternative zSeries Entry License Charge

Program name: IBM IMS Transaction Manager Value Unit Edition V15

Program PID: 5655-TM4

Entitlement ID	Description	License Option/Pricing Metric
S0187DS	IMS ETO VUE V15	Multi-Version Measurement No Charge Value Units
S0187DS	IMS ETO VUE V15	On Off Capacity on demand Temporary Use Charge MSU-DAY(s)
S0187DS	IMS ETO VUE V15	Use-Based License One-Time Charge Value Units
S0187DT	IIMS TM VUE V15	Multi-Version Measurement No Charge Value Units
S0187DT	IMS TM VUE V15	On Off Capacity on demand Temporary Use Charge MSU-DAY(s)
S0187DT	IMS TM VUE V15	Use-Based License One-Time Charge Value Units

Subscription and Support PID: 5655-TMS

Entitlement ID	Description	License Option/Pricing Metric
S017K13	IMS Transaction Manager VUE Subscription & Support	Decline Subscription and Support No Charge Value Units
S017K13	IMS Transaction Manager VUE Subscription & Support	MultiVersion Measurement S&S No Charge Value Units
S017K13	IMS Transaction Manager VUE Subscription & Support	SW Subscription and Support Annual Support Charge Value Units
S017K13	IMS Transaction Manager VUE Subscription & Support	SW Subscription and Support Monthly Support Charge Value Units
S017K13	IMS Transaction Manager VUE Subscription & Support	SW Subscription and Support Registration(minus Supply right) No Charge Per MSU
S017K45	IMS Extended Terminal Option VUE Subscription & Support	Decline Subscription and Support No Charge Value Units
S017K45	IMS Extended Terminal Option VUE Subscription & Support	MultiVersion Measurement S&S No Charge Value Units
S017K45	IMS Extended Terminal Option VUE Subscription & Support	SW Subscription and Support Annual Support Charge Value Units

Entitlement ID	Description	License Option/Pricing Metric
S017K45	IMS Extended Terminal Option VUE Subscription & Support	SW Subscription and Support Monthly Support Charge Value Units
S017K45	IMS Extended Terminal Option VUE Subscription & Support	SW Subscription and Support Registration (minus Supply right) No Charge Per MSU

Program name: IBM IMS Database Value Unit Edition V15

Program PID: 5655-DS5

Entitlement ID	Description	License Option/Pricing Metric
S017XHH	IMS Database Value Unit Ed V15	Multi-Version Measurement No Charge Value Units
S017XHH	IMS Database Value Unit Ed V15	On Off Capacity on demand Temporary Use Charge MSU-DAY(s)
S017XHH	IIMS Database Value Unit Ed V15	Use-Based License One-Time Charge Value Units

Subscription and Support PID: 5655-DSR

Entitlement ID	Description	License Option/Pricing Metric
S017864	IMS Database Value Unit Edition Subscription & Support	Decline Subscription and Support No Charge Value Unit
S017864	IMS Database Value Unit Edition Subscription & Support	MultiVersion Measurement S&S No Charge Value Units
S017864	IMS Database Value Unit Edition Subscription & Support	SW Subscription and Support Annual Support Charge Value Units
S017864	IMS Database Value Unit Edition Subscription & Support	SW Subscription and Support Monthly Support Charge Value Units
SS017864	IMS Database Value Unit Edition Subscription & Support	SW Subscription and Support Registration (minus Supply right) No Charge Per MSU

Basic machine-readable material

Orderable Supply ID	Language	Description
S018HBL	US English	IBM Information Management System DataBase Manager V15.2
S018HBN	US English	IIBM Information Management System Transaction Manager V15.2
S018HBM	US English	IBM Information Management System Extended Terminal Option V15.2

Publications

IMS V15 documentation is published in [IBM Knowledge Center](#), which can be viewed from a web browser.

The following softcopy publications are available in PDF file format to download from [IBM Knowledge Center](#):

Title	Order number
IBM IMS V15.2 Program Directory	GI13-4614-03
IBM IMS V15.2 DB VUE Program Directory	GI13-4692-02
IBM IMS V15.2 TM and ETO VUE Program Directory	GI13-4690-01

Subsequent updates (technical newsletters or revisions between releases) to the publications shipped with the product will be distributed to the user of record for as long as a license for this software remains in effect. A separate publication order or subscription is not needed.

Customized Offerings

Product deliverables are shipped only through CBPDO and ServerPac. These customized offerings are offered for internet delivery from Shopz. For more details on internet delivery, go to the Help section on the [Shopz](#) website.

IBM recommends internet delivery. However, if you still require physical media, you can choose DVD.

Many products can be ordered in ServerPac the month following their availability in CBPDO. z/OS can be ordered through CBPDO and ServerPac on the planned availability date. 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, go to the Help section on the [Shopz](#) website.

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

- CBPDO shipments will begin one week after the planned availability date.
- ServerPac shipments will begin two weeks after the planned availability date.

Terms and conditions

The terms for IBM Information Management System V15.2, as previously announced in Software Announcement [LP17-0489](#), dated October 3, 2017, licensed under the IBM Customer Agreement are unaffected by this announcement.

IBM Operational Support Services - Support Line

Yes

For operating system software, the revised IBM Operational Support Services - Support Line offering will provide support for those operating systems and associated products.

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, go to the [Supported product list](#) website.

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 lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

Important: IBM does not warrant that any systems, products, or services are immune from, or will make your enterprise immune from, the malicious or illegal conduct of any party.

Prices

Program name: Information Management System V15

Program PID: 5635-A06

Entitlement ID	Description	License Option/Pricing Metric
S018211	MS Transaction Manager V15	Basic, MLC, GOLC
S018212	IMS Extended Terminal Option V15	Basic, MLC, GOLC
S018214	IMS Database Manager V15	Basic, MLC, GOLC
Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS Transaction Manager V15	Basic MLC, zELC
S018212	IMS Extended Terminal Option V15	Basic MLC, zELC
S018214	IMS Database Manager V15	Basic MLC, zELC

z800 models:

0A1
0B1
0C1
001
0A2
002
003
004

Element Identifier	Description	Licensing option/Pricing metric
S018211	IMS Transaction Manager V15	Basic MLC, PSLC below 3 MSU
S018212	IMS Extended Terminal Option V15	Basic MLC, PSLC AD
S018214	IMS Database Manager V15	SYSUSGREG NC, PSLC AD
Element Identifier	Description	Licensing option/Pricing metric
S018211	IMS Transaction Manager V15	Basic MLC, AWLC
S018212	IMS Extended Terminal Option V15	Basic MLC, AWLC
S018214	IMS Database Manager V15	Basic MLC, AWLC

Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS Transaction Manager V15	Basic MLC, CMLC
S018212	IMS Extended Terminal Option V15	Basic MLC, CMLC
S018214	IMS Database Manager V15	Basic MLC, CMLC
Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS Transaction Manager V15	Basic MLC, AEWLC
S018212	IMS Extended Terminal Option V15	Basic MLC, AEWLC
S018214	MS Database Manager V15	Basic MLC, AEWLC
Entitlement ID	Description	License Option/Pricing Metric
S018211	MS Transaction Manager V15	Basic MLC, VWLC
S018212	IMS Extended Terminal Option V15	Basic MLC, VWLC
S018214	IMS Database Manager V15	Basic MLC, VWLC

Sub-capacity charges for AWLC, AEWLC, CMLC, zNALC, VWLC, EWLC, and MWLC products

Sub-capacity charges for eligible products are based on product LPAR utilization capacity. Product LPAR utilization capacity for a sub-capacity product is the highest number of MSUs utilized by the combined LPARs in which the product runs concurrently during a reporting period. The number of MSUs is based on the highest observed rolling 4-hour average utilization used by the combination of the relevant LPARs during the reporting period.

Sub-capacity charges terms and conditions

IBM Z software charges at less than full machine capacity for eligible sub-capacity products apply when z/OS, z/TPF, or z/VSE^(R) is running in z/Architecture (64-bit) mode on an IBM Z, no other MVSTM-based, TPF-based, or VSE-based operating system respectively is licensed to that server, and the required information is provided by the client in accordance with the applicable terms.

Sub-capacity charges for a sub-capacity product are based on the utilization of the LPARs where/when the product executes. To obtain charges at less than full machine capacity for sub-capacity products, the client is required to:

- Sign and abide by the terms of one of the following:
 - Attachment for IBM System z^(R) Advanced Workload License Charges (Z125-8538)
 - Attachment for IBM System z Advanced Entry Workload License Charges (Z125-8755)
 - Attachment for IBM Country Multiplex Pricing (Z126-6965)
 - Attachment for zNALC License Charges on IBM System z (Z125-7454)
 - Attachment for IBM System z Workload License Charges (Z125-6516)
 - Attachment for EWLC, TWLC, zELC, and z/OS.e License Charges (Z125-6587)
 - Attachment for IBM System z Midrange Workload License Charges (Z125-7452)
- Required service will be listed on the [IBM Z software pricing](#) website.
- Collect SMF or SCRT89 data as required by the Sub-Capacity Reporting Tool. Retain the collected data for a period of not less than six months.
- Use the IBM provided Sub-Capacity Reporting Tool to process the collected SMF or SCRT89 data. The Sub-Capacity Report produced by the tool is used

to determine required license capacity for the sub-capacity products. Required license capacity is determined based on the largest MSU value of a sub-capacity product running concurrently in all LPARs during the reporting period. IBM reserves the right to request the system data that supports these product-defined capacity values for a period of up to six months after the data was collected.

- Provide an initial Sub-Capacity Report to begin to receive the benefits of less than full machine capacity charges. Sub-capacity charging will follow submission of a Sub-Capacity Report. There will be no retroactive application of sub-capacity charges.
- Submit Sub-Capacity Reports monthly between the second and ninth day of the month after the reporting period.
- Submit Sub-Capacity Reports for all sub-capacity products with complete data for the entire reporting period through the method specified on the [IBM Z software pricing](#) website.

Sub-Capacity Reports that reflect a changed product defined capacity will be considered to be orders placed by the client without further action on the client's part, and IBM is authorized to make any resulting billing increase or decrease, including the ordering of any necessary new licenses. To discontinue licenses, move licenses between machines, report a hardware model upgrade, or enable or disable product features, the client must contact IBM or their IBM Business Partner.

- Configure the machine to send weekly Transmit System Availability Data (TSAD) to IBM through the IBM Z Remote Support Facility (RSF). If the machine cannot connect through the RSF, provide this TSAD through an alternate means documented in the *SCRT Users Guide* (SG24-6522) publication on the [IBM Z software pricing](#) website.

Entry Workload License Charge (EWLC):

Entitlement ID	Description	License Option/Pricing Metric
S018211	IMS Database Manager V15	Basic MLC, Entry WLC
S018212	IMS Extended Terminal Option V15	Basic MLC, Entry WLC
S018214	IMS Database Manager V15	Basic MLC, Entry WLC

Entitlement identifier	Description	License option/ Pricing metric
S018211	IMS TM V15	Basic License Monthly Charge Usage License Charge (Non-Cumulative) up to 0.5 MSU
S018212	IMS ETO V15	Basic License Monthly Charge Usage License Charge (Non-Cumulative) up to 0.5 MSU
S018214	IMS DB Mgr V15	Basic License Monthly Charge Usage License Charge (Non-Cumulative) up to 0.5 MSU
S018211	IMS TM V15	Basic License Monthly Charge Usage License Charge Measured Usage above 0.5 MSU
S018212	IMS ETO V15	Basic License Monthly Charge Usage License Charge Measured Usage above 0.5 MSU
S018214	IMS DB Mgr V15	Basic License Monthly Charge Usage License Charge Measured Usage above 0.5 MSU

For additional product information, see Software Announcement [LP17-0489](#), dated October 3, 2017.

For all local charges, contact your IBM representative.

Variable charges

The applicable processor based one-time charge will be based on the group of the designated machine on which the program is licensed for use. If the program is designated to a processor in a group for which no charge is listed, the charge of the next higher group listed applies. For movement to a machine in a higher group, an upgrade charge equal to the difference in the then-current charges between the two groups will apply. For movement to a machine in a lower group, there will be no adjustment or refund of charges paid.

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