IBM IMS Tools offer new and enhanced administration and database management solutions

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</table>

At a glance

IBM® IMS™ Administration Tool for z/OS®, V1.1 provides an ISPF and web user interface for IMS administrators to:

- Report on IMS catalog space utilization and compare contents to ACB libs for easier management of the catalog environment
- View, add, and change IMS objects
- Generate task-based, error-free JCL for IBM IMS Tools utilities
- Use dynamic SQL to access IMS data using the IMS SPUFI interface
- Submit IMS Type 1 and Type 2 commands with store-forward capabilities and a comprehensive audit log

IBM IMS Database Solution Pack for z/OS, V2.2 is updated to include IMS Administration Tool, extending its current capabilities:

- High-performance utilities needed to reorganize and maintain IMS Full Function and High Availability Large Database (HALDB) databases, including unload, load, index building, and image copy tasks
- Online and conditional reorganization capabilities to keep IMS databases at maximum availability and avoid unnecessary database maintenance
- IT operational analytics data collected during all phases of IMS database administration and used extensively to allow IMS DBAs to proactively manage their IMS environment

Overview

IBM IMS Administration Tool for z/OS, V1.1 is a new offering that provides a comprehensive set of functions designed to ease the workload of today’s IMS administrators. With this product, you can manage your IMS DBD and PSB resources, including the ability to view, add, and change IMS objects. For users implementing the IMS catalog, you can report on your IMS catalog space usage and compare its contents to your current ACB libs. You can also issue Type 1 and Type 2 IMS commands, generate simple, task-based JCL for all your IMS maintenance needs, and even use SQL statements to access your IMS data. Choose between an online web interface, via integration with the separately licensed IBM Management Console for IMS and DB2™ for z/OS, V1.1 (5655-TAC), or a traditional ISPF interface.

IBM IMS Database Solution Pack for z/OS, V2.2 combines several sophisticated IMS database products into a single solution. With V2.2, IMS Database Solution
Pack now contains the new IMS Administration Tool for z/OS, V1.1. In addition to the Administration Tool capabilities described above, this comprehensive solution provides both online and offline IMS database reorganization, support for IMS library maintenance, advanced capabilities to manage IMS HALDB databases, and the ability to check and repair database integrity and pointer errors.

These products complement the current portfolio of IBM IMS Tools and solutions. For more information about IMS Tools, visit the IMS Tools website.

**Key prerequisites**

IBM IMS Tools operate on any z Systems™ hardware configuration that supports the required software. Refer to the Hardware requirements and Software requirements sections for details.

**Planned availability date**

September 8, 2017

Refer to the Availability of national languages section for national language availability.

**Description**

**IBM IMS Administration Tool for z/OS, V1.1**

IMS Administration Tool for z/OS, V1.1 provides a comprehensive set of functions and features to assist the IMS DBA with tasks associated with managing IMS environments. V1.1 includes the following:

- **Object management**
  - Provides the ability to view, add, change, and delete IMS objects including DBDs, PSBs, and ACBs
  - Enables comprehensive reporting and validation of IMS objects
- **Catalog management**
  - Reports on IMS catalog usage and identifies potential problems
  - Supports bulk import of databases, programs, and copybook definitions into the IMS catalog
  - Provides summary reporting of objects stored in the IMS catalog and overall catalog state
  - Compares different versions of objects in the IMS catalog with the active version in the IMS ACBLIB
  - Provides one-click access to orphaned objects in the IMS catalog
- **Utility JCL generation**
  - Provides a facility to quickly generate JCL customized to the user’s environment, to run IBM IMS Tools
  - Generates JCL needed to implement DBD changes
- **With IMS V14 or later, IMS Administration Tool for z/OS**
  - Offers the capability to issue SQL commands interactively against IMS databases
  - Provides batch capabilities to issue SQL commands against IMS databases
- **IMS command capabilities**
  - Allows for issuing IMS Type 1 and Type 2 commands and viewing response
- Audits IMS commands issued from z/OS console, user interfaces, or IMS or z/OS jobs

IMS Administration Tool also provides a store-forward capability to make sure IMS commands are in effect for all IMS systems in a sysplex regardless if the IMS system is down at the time the commands are initially entered.

**IBM IMS Database Solution Pack for z/OS, V2.2**

IMS Database Solution Pack for z/OS, V2.2 combines several sophisticated IMS database products into a single solution. With V2.2 the solution now includes IMS Administration Tool for z/OS, V1.1.

IMS Database Solution Pack continues to provide both online and offline IMS database reorganization, support for IMS library maintenance, advanced capabilities to manage IMS HALDB databases, and the ability to check and repair database integrity and pointer errors. IMS Database Solution Pack captures operational analytics during all phases of IMS database administration. This data is used extensively to allow IMS DBAs to proactively manage their IMS environment.

IMS Database Solution Pack for z/OS, V2.2 provides the following enhancements to the online reorganization capability, further extending the product's capabilities and usability:

- Support for conditional reorganization of multiple HALDB partitions. Analyze multiple HALDB partitions and reorganize only the partitions that were identified as in need of reorganization.
- Option to change the DBD during HALDB reorganization. During the reorganization, the database is unloaded with the original DBD and then reloaded with the new DBD.
- Generation of image copies in IMS HP Image Copy's Fast Recovery image copy format to enable fast recovery of databases.
- Ability to allow applications that use secondary processing sequence (PROCSEQ parameter coded in the PCB statement) to update the HALDB during reorganization.

For more information on the features available in IMS Database Solution Pack for z/OS, see the [IMS Database Solution Pack for z/OS](https://www.ibm.com) website.

**Section 508 of the US Rehabilitation Act**

IBM makes no representation about the Section 508 status of the third-party electronic and information technology product in this offering. Contact the vendor for specific, current information on the Section 508 status of this product.

**Value Unit-based pricing**

Value Unit pricing for eligible IBM z Systems™ IBM International Program License Agreement (IPLA) programs enables a lower cost of incremental growth and enterprise aggregation. Each z Systems IPLA product with Value Unit pricing has a single price per Value Unit and a conversion matrix, called Value Unit Exhibit, for converting from some designated measurement to Value Units. Most commonly, Millions of Service Units (MSUs) is the measurement designated by IBM to be converted to Value Units. Some other measurements are engines or messages. Since MSUs are the most common measurement, that measurement will be used for the remainder of this description.

Value Unit pricing offers price benefits for you. For each z Systems IPLA program with Value Unit pricing, the quantity of that program needed to satisfy applicable IBM terms and conditions is referred to as the **required license capacity**. Each of the various Value Unit Exhibits stipulates that the larger your required license capacity, the fewer Value Units per MSU you will need. Value Unit Exhibits are
uniquely identified by a three-digit code and referred to using the nomenclature VUExx, where xxx is the three-digit code.

Subsequent acquisitions of Value Unit priced programs offer additional price benefits. The quantity of each z Systems IPLA program that you have acquired is referred to as entitled license capacity. If you wish to grow your entitled license capacity for a z Systems IPLA program, the calculation to determine additional needed Value Units is based upon the number of Value Units already acquired.

For each z Systems IPLA program with Value Unit pricing, you should:

- Determine the required license capacity, in MSUs.
- Aggregate the MSUs across the enterprise.
- Convert the total MSUs to Value Units, using the applicable Value Unit Exhibit.
- Multiply the price per Value Unit by the total number of Value Units to determine the total cost.

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, go to the IBM System z® Software Pricing website.

Note that Value Units of a given product cannot be exchanged, interchanged, or aggregated with Value Units of another product.

To determine the required license capacity for the z Systems IPLA program you selected, refer to the Terms and conditions section.

### Availability of national languages

Translation information, if available, can be found at the Translation Reports website.

### Program number

<table>
<thead>
<tr>
<th>Program number</th>
<th>VRM</th>
<th>Program name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-CAT</td>
<td>1.1.0</td>
<td>IBM IMS Administration Tool for z/OS</td>
</tr>
<tr>
<td>5655-CAS</td>
<td>1.1.0</td>
<td>IBM IMS Administration Tool for z/OS Subscription &amp; Support</td>
</tr>
<tr>
<td>5655-DSP</td>
<td>2.2.0</td>
<td>IBM IMS Database Solution Pack for z/OS</td>
</tr>
<tr>
<td>5655-S78</td>
<td>1.1.0</td>
<td>IBM IMS Database Solution Pack for z/OS Subscription &amp; Support</td>
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### Product identification number

<table>
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<th>Subscription and Support PID number</th>
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</thead>
<tbody>
<tr>
<td>5655-CAT</td>
<td>5655-CAS</td>
</tr>
<tr>
<td>5655-DSP</td>
<td>5655-S78</td>
</tr>
</tbody>
</table>
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 IBMid).

BP Attachment for Announcement Letter 217-040

Offering Information

Product information is available on the IBM Offering Information website.

Publications

The following publications are shipped with IBM IMS Administration Tool for z/OS, V1.1 (5655-CAT):

<table>
<thead>
<tr>
<th>Title</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM IMS Administration Tool for z/OS- Program Directory</td>
<td>GI13-4331</td>
</tr>
<tr>
<td>IBM IMS Administration Tool for z/OS- License Information CD ROM</td>
<td>LC27-9012</td>
</tr>
</tbody>
</table>

The following publications are shipped with IBM IMS Database Solution Pack for z/OS, V2.2 (5655-DSP):

<table>
<thead>
<tr>
<th>Title</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IMS Database Solution Pack for z/OS Program Directory</td>
<td>GI10-8942</td>
</tr>
<tr>
<td>IMS Database Solution Pack for z/OS License Information CD</td>
<td>LC27-8763</td>
</tr>
</tbody>
</table>

These publications for the products in this announcement cannot be ordered in hardcopy. These publications will be available on September 8, 2017, on the IMS Tools Product Documentation website.

In addition, the following optional publications are available on the IMS Tools Product Documentation website:

<table>
<thead>
<tr>
<th>Title</th>
<th>Order number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM IMS Database Solution Pack for z/OS: Overview and Customization</td>
<td>SC27-9037</td>
</tr>
<tr>
<td>IBM IMS Administration Tool for z/OS User's Guide and Reference</td>
<td>SC27-9011</td>
</tr>
</tbody>
</table>

Services

Software Services

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

To learn more about IBM Software Services, contact your Lab Services Sales or Delivery Leader.

**Technical information**

**Specified operating environment**

**Hardware requirements**

IBM IMS Tools operate on any z Systems hardware configuration that supports the required software.

**Software requirements**

The following are required:

- z/OS, V2.1 (5650-ZOS) or later
- One of the following versions of IMS
  - IBM IMS, V13.1 (5635-A04)
  - IBM IMS, V14.1 (5635-A05)
- IBM IMS Tools Base V1.6 (5655-V93)
- IMS Database Solution Pack for z/OS, V2.2 requires the DFSORT program, a no-charge separately orderable feature of z/OS (5650-ZOS), or a functionally equivalent sort program
- IMS Database Solution Pack for z/OS, V2.2 requires the following software in support of the Advanced Image Copy services in IMS High Performance Image Copy:
  - DFSMS dss, a no-charge separately orderable feature of z/OS (5650-ZOS)

**Conditional operational requirements**

IMS Tools Base for z/OS, V1.6 requires the following software in support of the web user interface for IMS Autonomics:

- IBM Management Console for IMS and DB2 for z/OS, V1.1 (5655-TAC)

IMS Administration Tool requires the following for the object management and catalog management functions:

- IBM IMS Library Integrity Utilities for z/OS, V2.2 (5655-U08), which is included in IMS Database Solution Pack V2

IMS Administration Tool requires the following for copybook parsing:

- IBM Enterprise COBOL for z/OS, V5.2.0, or later (5655-W32)

IMS Database Solution Pack for z/OS, V2.2 requires the following software for the web user interface for the DBD/PSB map viewer of IMS Library Integrity Utilities:

- IBM Installation Manager for z/OS, 1.7.3 or later (5650-ZOS), or IBM Installation Manager for Windows™ 1.7.3 or later
- IBM Management Console for IMS and DB2 for z/OS, V1.1 (5655-TAC)
The program’s specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a Program Directory.

Planning information

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

- Basic machine-readable material
- Program Directory
- License Information
- IBM International Program License Agreement (IPLA)
- IBM Agreement for Acquisition of Software Maintenance (IAASM)

Direct customer support

For technical support or assistance, contact your IBM representative or go to the IBM Support Portal website.

Security, auditability, and control

The announced programs use the security and auditability features of the host operating system software.

The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Ordering information

The following programs in this announcement have Value Unit pricing:

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
<th>Value Unit Exhibit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-CAT</td>
<td>IBM IMS Admin Tool for z/OS</td>
<td>VUE007</td>
</tr>
<tr>
<td>5655-DSP</td>
<td>IMS Database Solution Pack</td>
<td>VUE007</td>
</tr>
</tbody>
</table>

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

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

Value Unit Exhibit VUE007

<table>
<thead>
<tr>
<th></th>
<th>MSUs minimum</th>
<th>MSUs maximum</th>
<th>Value Units/MSU</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>1</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>Tier A</td>
<td>4</td>
<td>45</td>
<td>0.45</td>
</tr>
<tr>
<td>Tier B</td>
<td>46</td>
<td>175</td>
<td>0.36</td>
</tr>
<tr>
<td>Tier C</td>
<td>176</td>
<td>315</td>
<td>0.27</td>
</tr>
<tr>
<td>Tier D</td>
<td>316</td>
<td>+</td>
<td>0.20</td>
</tr>
</tbody>
</table>
Ordering example

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

If your required license capacity is 1,500 MSUs for your selected z Systems IPLA product, the applicable Value Units would be:

<table>
<thead>
<tr>
<th>Tier</th>
<th>MSUs</th>
<th>Multiplied by Value Units per MSU</th>
<th>Equal Value Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base</td>
<td>3</td>
<td>1.00</td>
<td>3.00</td>
</tr>
<tr>
<td>Tier A</td>
<td>42</td>
<td>.45</td>
<td>18.90</td>
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<tr>
<td>Tier B</td>
<td>130</td>
<td>.36</td>
<td>46.80</td>
</tr>
<tr>
<td>Tier C</td>
<td>140</td>
<td>.27</td>
<td>37.80</td>
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<tr>
<td>Tier D</td>
<td>1,185</td>
<td>.20</td>
<td>237.00</td>
</tr>
<tr>
<td>Total</td>
<td>1,500</td>
<td></td>
<td>343.50</td>
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</table>

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

Ordering z/OS through the internet

Shopz 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). For more details and availability, go to the Shopz website.

Charge metric

<table>
<thead>
<tr>
<th>Program name</th>
<th>PID number</th>
<th>Charge metric</th>
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</thead>
<tbody>
<tr>
<td>IBM IMS Admin Tool for z/OS</td>
<td>5655-CAT</td>
<td>Value Unit</td>
</tr>
<tr>
<td>IMS Database Solution Pack</td>
<td>5655-DSP</td>
<td>Value Unit</td>
</tr>
</tbody>
</table>

Basic license

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

Translation from MSUs to Value Units

<table>
<thead>
<tr>
<th>Tier</th>
<th>MSUs</th>
<th>Value Units/MSU</th>
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<tbody>
<tr>
<td>Base</td>
<td>1-3</td>
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<tr>
<td>Tier A</td>
<td>4-45</td>
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</tr>
<tr>
<td>Tier B</td>
<td>46-175</td>
<td>.36</td>
</tr>
<tr>
<td>Tier C</td>
<td>176-315</td>
<td>.27</td>
</tr>
<tr>
<td>Tier D</td>
<td>316+</td>
<td>.20</td>
</tr>
</tbody>
</table>

To order, specify the program product number and the appropriate license or charge option. Also, specify the desired distribution medium. To suppress shipment of media, select the license-only option in CFSW.

The following product entitlement identifiers and orderable supply IDs are not new, and are listed for ordering reference.

**Program name: IBM IMS Administration Tool for z/OS, V1.1**

**Program PID: 5655-CAT**

<table>
<thead>
<tr>
<th>Entitlement identifier</th>
<th>Description</th>
<th>License option/Pricing metric</th>
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<tbody>
<tr>
<td>S017RD7</td>
<td>IMS Administration Tool for z/OS</td>
<td>Basic OTC, per Value Unit</td>
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Program name: IBM IMS Database Solution Pack for z/OS, V2.2

Program PID: 5655-DSP

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<th>Description</th>
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<tr>
<td>S0178XF</td>
<td>IMS Database Solution Pack for z/OS</td>
<td>Basic OTC, per Value Unit</td>
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<td></td>
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<td></td>
<td>Basic OTC, per MSU-day TUC</td>
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<table>
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<tr>
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<th>Language</th>
<th>Distribution medium</th>
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<tbody>
<tr>
<td>S0178XD</td>
<td>IBM IMS Database Solution Pack for z/OS</td>
<td>English US</td>
<td>Tape cartridge-CST3590-128T</td>
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Subscription and Support PID: 5655-CAS

<table>
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<td>S017RDB</td>
<td>IMS Administration Tool for z/OS S&amp;S</td>
<td>Basic ASC, per Value Unit</td>
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<tr>
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<td></td>
<td>SW S&amp;S No charge, decline</td>
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<td>SW S&amp;S Per MSU SW S&amp;S registration</td>
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<tr>
<td></td>
<td></td>
<td>MultiVersion Measurement S&amp;S No Charge</td>
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<table>
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<tr>
<th>Orderable supply ID</th>
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<tbody>
<tr>
<td>S017RD9</td>
<td>IMS Administration Tool for z/OS S&amp;S</td>
<td>English US</td>
<td>Hardcopy publication</td>
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Subscription and Support PID: 5655-S78

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</thead>
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<td>Basic ASC, per Value Unit</td>
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<td></td>
<td>SW S&amp;S No charge, decline</td>
</tr>
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</tr>
<tr>
<td></td>
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<td>MultiVersion Measurement S&amp;S No Charge</td>
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<table>
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<th>Orderable supply ID</th>
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<td>IMS Database Solution Pack for z/OS S&amp;S</td>
<td>English US</td>
<td>Hardcopy publication</td>
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</table>

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

**Customized offerings**

Product deliverables are shipped only through CBPDO and ServerPac. These customized offerings are offered for internet delivery in countries where Shopz 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, go to the Help section on the Shopz website.

You choose the delivery method when you order the software. IBM recommends internet delivery. In addition to internet and DVD, the supported tape delivery options include:

- 3590
- 3592

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

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

For additional information about the Product ServerPac option, refer to Software Announcement 212-272, dated July 31, 2012.

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

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

**Terms and conditions**

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

**Licensing**

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

**Agreement for Acquisition of Software Maintenance**

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

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

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

**License Information number**

<table>
<thead>
<tr>
<th>Program name</th>
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<th>License information number</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBM IMS Administration Tool for z/OS</td>
<td>5655-CAT</td>
<td>GI13-4332</td>
</tr>
<tr>
<td>IBM IMS Database Solution Pack</td>
<td>5655-DSP</td>
<td>GC19-4008</td>
</tr>
</tbody>
</table>

The program’s License Information will be available for review on the IBM Software License Agreement website.

**Limited warranty applies**

Yes

**Limited warranty**

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

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

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

**Program technical support**

Technical support of a program product version or release will be available for a minimum of three years from the general availability date, as long as your Software Subscription and Support (also referred to as Software Maintenance) is in effect.

This technical support allows you to obtain assistance (by telephone or electronic means) from IBM for product-specific, task-oriented questions regarding the installation and operation of the program product. Software Subscription and Support (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, through an announcement letter, of discontinuance of support with 12 months' notice. If you require additional technical support from IBM, including an extension of support beyond the discontinuance date, contact your IBM representative or IBM Business Partner. This extension may be available for a fee.

For additional information on the IBM Software Support Lifecycle Policy, see the IBM Software Support Lifecycle Policy website.

**Money-back guarantee**

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

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

**Volume orders (IVO)**

No

**Passport Advantage applies**

No

**Software Subscription and Support applies**

Yes. During the Software Subscription and Support period, for the unmodified portion of a program, and to the extent problems can be recreated in the specified operating environment, IBM will provide the following:

- Defect correction information, a restriction, or a bypass.
- Program updates: Periodic releases of collections of code corrections, fixes, functional enhancements, and new versions and releases to the program and documentation.
- Technical assistance: A reasonable amount of remote assistance by telephone or electronically to address suspected program defects. Technical assistance is available from the IBM support center in the organization's geography.

Additional details regarding Technical Assistance, including IBM contact information, are provided in the **IBM Software Support Handbook**.

Software Subscription and Support does not include assistance for:

- The design and development of applications
- Your use of programs in other than their specified operating environment
- Failures caused by products for which IBM is not responsible under the IBM Agreement for Acquisition of Software Maintenance

Software Subscription and Support is provided only if the program is within its support timeframe as specified in the Software Support Lifecycle policy for the program.

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.

**IBM Operational Support Services - SoftwareXcel**

Yes

**Variable charges apply**

No

**Educational allowance available**

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

**Multi-Version Measurement**
Multi-Version Measurement (MVM) replaces the previously announced Migration Grace Period time limit of six months and allows unlimited time for clients to run more than one eligible version of a software program. Clients may run multiple versions of a program simultaneously for an unlimited duration during a program version upgrade. Clients may also choose to run multiple versions of a program simultaneously for an unlimited duration in a production environment. MVM does not extend support dates for programs withdrawn from service.

For more information about MVM, including requirements for qualification, see the MVM web page. For a list of eligible programs, see the IPLA Execution-Based web page.

### Sub-capacity terms and conditions

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

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

For more information on the Value Unit Exhibit for the z Systems IPLA program you selected, refer to the Ordering information section.

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### Full-capacity mainframes

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

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

For more information on mainframe MSU-rated capacities, go to the IBM Z (IBM System z Software Contracts) website.

Reference based: The required license capacity of an IBM Z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.

### Sub-capacity mainframes

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

Execution based: The required capacity of a z Systems IPLA sub-capacity program with these terms equals the capacity of the LPARs where the IBM Z IPLA program executes.

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

Reference based: The required license capacity of an IBM Z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the parent program.
Full machine based: The required license capacity of an IBM Z IPLA program with full machine based terms equals the MSU-rated capacity of the machines where the IBM Z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to the IBM z Systems Machines Exhibit (Z125-3901) or go to the Mainframes section on the IBM System z Software Contracts website.

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

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

When an IBM Z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the IBM Z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one where MLC pricing is aggregated across the sysplex.

**Sub-capacity eligibility**

To be eligible for sub-capacity charging on select IBM Z IPLA programs, you must first implement and comply with all terms of either sub-capacity Workload License Charges (WLC) or sub-capacity Entry Workload License Charges (EWLC). To implement sub-capacity WLC or EWLC, a machine must be IBM Z (or equivalent). On that machine:

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

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

You must comply with all of the terms of the WLC or EWLC offering, whichever is applicable:

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement - Attachment for z Systems Workload License Charges(Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for EWLC, TWLC, zELC, and z/OS.e License Charges(Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract Amendment for Amendment for IBM z Systems Programs Sub-Capacity Pricing(Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous z Systems IPLA sub-capacity terms and conditions.

**Sub-capacity utilization determination**

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

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

Statement of good security practices

IT system security involves protecting systems and information through intrusion 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 regulatory compliant, 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

For information on charges, contact your IBM representative.

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