IBM InfoSphere classic data replication and federation solutions for z/OS enable near real-time data replication and federation of nonrelational data

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At a glance

New and enhanced InfoSphere® classic data replication and federation solutions for z/OS®:

- Provide a single change data capture model that spans z/OS and distributed Linux™, UNIX™, and Microsoft™ Windows™ (LUW) data sources
- Improve nonrelational z/OS data integration with:
  - Expanded monitoring and metrics
  - Simplified development to test to production deployment migrations
  - Easy-to-use, high-performance z/OS file integration in conjunction with InfoSphere DataStage® extract, transform, and load (ETL) processes
- Eliminate geographic limitations between active and standby IMS™ data environments
- Reduce time to recovery for high-availability IMS environments with a hot standby platform
- Support replication of data between IMS and VSAM databases

Overview

The following IBM® InfoSphere classic data replication and federation solutions for z/OS are available with this release:

- InfoSphere Classic Change Data Capture for z/OS, V11.1
- InfoSphere Classic Federation Server for z/OS, V11.1
- InfoSphere Data Replication for IMS for z/OS, V11.1
- InfoSphere Data Replication for VSAM for z/OS, V11.1

These solutions:

- Enable IMS as a source for IBM's InfoSphere Data Replication and InfoSphere Replication for DB2® for the change data capture technology of z/OS
- Provide integration of nonrelational z/OS data through improved SQL-driven access to z/OS data sources
- Support replication of data between IMS databases
- Support replication of data between VSAM databases
For additional details, refer to the Description section.

**Key prerequisites**

IBM z/OS V1.10, V1.11, or V1.12. For details, refer to the Hardware and software requirements section.

**Planned availability date**

October 25, 2013

**Description**

**InfoSphere Classic Change Data Capture for z/OS** supports IMS as a data source when used with InfoSphere Change Data Capture, targeting both z/OS and distributed platforms. This combination of products enables unidirectional movement of IMS data to:

- Local or remote relational database management systems
- Message queues
- Flat files
- Transformation engines such as InfoSphere DataStage
- Database appliances such as IBM's PureData™ System for Analytics, powered by Netezza® technology

Fast and consistent delivery of business-critical IMS data changes drive:

- Dynamic data warehousing
- Service-oriented architecture (SOA) initiatives
- Real-time analytics and live reporting
- Data consolidation and migration projects
- Master data management initiatives

**InfoSphere Classic Federation Server for z/OS** enhances IBM's premier z/OS SQL-driven data integration solution with new capabilities that include:

- Binary data support: Especially useful for accessing data that may contain bit-level indicators.
- IMS V12 support: Expanded to a new version of IMS.
- Metadata catalog enhancements: Expand scalability of the catalog, enable increased speed to access and use the catalog data, and enhance manageability of the catalog. Customers can define tens of thousands of logical tables and views. Access is faster, improving the performance of all InfoSphere Classic products. In addition, catalog updates can be applied without taking the catalog offline, thus making it easier to adapt to expanding or changing data access requirements.

**InfoSphere Data Replication for IMS for z/OS** delivers a native IMS-to-IMS software replication solution that supports high-availability IMS data environments. This solution synchronizes the contents of IMS databases on a single site or across geographically dispersed locations in near real time with full recovery. When used with other IBM management solutions, InfoSphere IMS Replication for z/OS supports a hot standby environment that can dramatically reduce the time to recovery for 24x7 processing environments.
InfoSphere Data Replication for IMS for z/OS supports IMS as a data source when used with IBM InfoSphere Data Replication and IBM InfoSphere Data Replication for DB2 for z/OS change data capture technology, targeting both z/OS and distributed platforms. This combination of products enables unidirectional movement of IMS data to:

- Local or remote relational database management systems
- Message queues
- Flat files
- Transformation engines such as InfoSphere DataStage
- Database appliances such as IBM’s PureData System for Analytics, powered by Netezza technology

Fast and consistent delivery of business-critical IMS data changes drive:

- Big data initiatives
- Dynamic data warehousing
- Service-oriented architecture (SOA) initiatives
- Real-time analytics and live reporting
- Data consolidation and migration projects
- Master data management initiatives

**InfoSphere Data Replication for VSAM for z/OS** delivers a native VSAM-to-VSAM software replication solution that supports high-availability VSAM data environments. This solution synchronizes the contents of VSAM databases on a single site, or across geographically dispersed locations, in near real time with full recovery.

When used with other IBM management solutions, InfoSphere Data Replication for VSAM for z/OS supports a hot standby environment that can dramatically reduce the time to recovery for today's 24x7 processing environments. It also supports the distribution of VSAM query workloads across data centers. This is especially useful as a means of offloading new query intensive workloads typical of mobile applications, real-time analytics, and big data deployments to a secondary processing environment, thus ensuring that the primary site continues to satisfy OLTP service levels.

**Accessibility by people with disabilities**

A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be requested at


**Value Unit-based pricing**

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

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

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

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

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

To simplify conversion from the designated measurement to Value Units or vice-versa, use the Value Unit Converter Tool. For additional information or to obtain a copy of the Value Unit Converter Tool, visit the Value Unit Converter Tool website:

http://ibm.com/zseries/swprice/vuctool

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

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

### Program number

<table>
<thead>
<tr>
<th>Program number</th>
<th>VRM</th>
<th>Program name</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-IM5</td>
<td>11.1</td>
<td>InfoSphere Classic Change Data Capture for z/OS</td>
</tr>
<tr>
<td>5655-IM4</td>
<td>11.1</td>
<td>InfoSphere Classic Federation Server for z/OS</td>
</tr>
<tr>
<td>5655-IM1</td>
<td>11.1</td>
<td>InfoSphere Data Replication for IMS for z/OS</td>
</tr>
<tr>
<td>5655-Y18</td>
<td>11.1</td>
<td>InfoSphere Data Replication for VSAM for z/OS</td>
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### Product identification number

<table>
<thead>
<tr>
<th>Program PID number</th>
<th>Subscription and Support PID number</th>
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</thead>
<tbody>
<tr>
<td>5655-IM5</td>
<td>5655-W31</td>
</tr>
<tr>
<td>5655-IM4</td>
<td>5655-S03</td>
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<td>5655-IM1</td>
<td>5655-W30</td>
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<td>5655-Y18</td>
<td>5655-Y19</td>
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### Offering Information

Product information is available via the Offering Information website:

http://www.ibm.com/common/ssi
Publications

The following publications can be ordered after planned availability. To order, use the Publications Center or contact your IBM representative.

<table>
<thead>
<tr>
<th>Title</th>
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<tbody>
<tr>
<td>InfoSphere Classic Change Data Capture for z/OS: End user documentation</td>
<td>SC19-4172</td>
</tr>
<tr>
<td>IBM InfoSphere Classic Federation Server for z/OS Guide and Reference</td>
<td>SC19-4170</td>
</tr>
<tr>
<td>System Messages for IBM InfoSphere Classic Federation Server for z/OS</td>
<td>GC19-4171</td>
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<tr>
<td>InfoSphere Data Replication for IMS for z/OS: Installation Guide for IBM InfoSphere Data Replication for IMS for z/OS</td>
<td>GC19-4173</td>
</tr>
<tr>
<td>IBM InfoSphere Data Replication for IMS for z/OS Guide and Reference</td>
<td>SC19-4174</td>
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<tr>
<td>System Messages for IBM InfoSphere Data Replication for IMS for z/OS</td>
<td>GC19-4175</td>
</tr>
<tr>
<td>InfoSphere Data Replication for VSAM for z/OS: Installation Guide for IBM InfoSphere Data Replication for VSAM for z/OS</td>
<td>GC19-4176</td>
</tr>
<tr>
<td>IBM InfoSphere Data Replication for VSAM for z/OS Guide and Reference</td>
<td>SC19-4177</td>
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<td>System Messages for IBM InfoSphere Data Replication for VSAM for z/OS</td>
<td>GC19-4178</td>
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</table>

The IBM Publications Center

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

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

Technical information

Specified operating environment

Hardware and software requirements

For the most current information regarding hardware and software requirements, refer to

- IBM InfoSphere Classic Change Data Capture for z/OS
  https://ibm.biz/BdD25f
- IBM InfoSphere Classic Federation Server for z/OS
  https://ibm.biz/BdD25S
- IBM InfoSphere Data Replication for IMS for z/OS
  https://ibm.biz/BdD252
- IBM InfoSphere Data Replication for VSAM for z/OS
  https://ibm.biz/BdD25v
The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

**IBM Electronic Support**

The IBM Support Portal is your gateway to technical support. This includes IBM Electronic Support tools and resources, for software and hardware, to help save time and simplify support. The Electronic Support tools can help you find answers to questions, download fixes, troubleshoot, automate data collection, submit and track problems through the Service Request online tool, and build skills. All these tools are made available through your IBM support agreement, at no additional charge.

- Read about the Electronic Support portfolio of tools
- Access the IBM Support Portal
  [http://ibm.com/support](http://ibm.com/support)
- Access the online Service Request tool

**Planning information**

**Packaging**

**InfoSphere Classic Change Data Capture for z/OS** is distributed with:
- IBM International Program License Agreement on CD
- One 3590 tape uncompressed
- Program Directory
- Quick Start Card
- One DVD with Classic Data Architect software
- One DVD with Management Console, Access Server software, and PDFs for documents

**InfoSphere Classic Federation Server for z/OS** is distributed with:
- IBM International Program License Agreement on CD
- One 3590 tape uncompressed
- Program Directory
- Quick Start Card
- One DVD with Classic Data Architect software
- One DVD with Classic Tools software

**InfoSphere Data Replication for IMS for z/OS** is distributed with:
- IBM International Program License Agreement on CD
- One 3590 tape uncompressed
- Program Directory for Classic Replication for IMS
- Quick Start Card for Classic Replication for IMS
- One DVD with Classic Data Architect software
- One DVD with Management Console, Access Server software, and PDFs for documents

**InfoSphere Data Replication for VSAM for z/OS** is distributed with:
- IBM International Program License Agreement on CD
One 3590 tape uncompressed
Program Directory
Quick Start Card
One DVD with Classic Data Architect software

This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, and will be presented for acceptance at the time of installation of the program. For future reference, the license and License Information will be stored in a directory such as LICENSE.TXT.

Security, auditability, and control

InfoSphere classic data replication and federation solutions for z/OS use the security and auditability features of the host hardware or software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

Global Technology Services®

Contact your IBM representative for the list of selected services available in your country, either as standard or customized offerings for the efficient installation, implementation, or integration of this product.

Ordering information

Consult your IBM representative.

Ordering z/OS through the Internet

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

For more details and availability, visit the ShopzSeries website at


Charge metric

<table>
<thead>
<tr>
<th>Program name</th>
<th>Part number or PID number</th>
<th>Charge metric</th>
</tr>
</thead>
<tbody>
<tr>
<td>InfoSphere Classic Change Data Capture for z/OS</td>
<td>5655-IM5</td>
<td>Value units</td>
</tr>
<tr>
<td>InfoSphere Classic Federation Server for z/OS</td>
<td>5655-IM4</td>
<td>Value units</td>
</tr>
<tr>
<td>InfoSphere Data Replication for IMS for z/OS</td>
<td>5655-IM1</td>
<td>Value units</td>
</tr>
<tr>
<td>InfoSphere Data Replication for VSAM for z/OS</td>
<td>5655-Y18</td>
<td>Value units</td>
</tr>
</tbody>
</table>

Resource Value Unit (RVU)

RVU is a unit of measure by which the program can be licensed. RVU Proofs of Entitlement are based on the number of units of a specific resource used or managed by the program. Licensee must obtain sufficient entitlements for the
number of RVUs required for licensee's environment for the specific resources as specified in the program specific table. RVU entitlements are specific to the program and the type of resource and may not be exchanged, interchanged, or aggregated with RVU entitlements of another program or resource. Refer to the program specific RVU table.

Notes:

- Some programs may require licenses for the resources available to and the resources being managed by the program. In that case, the following applies. In addition to the entitlements required for the resources used by the program directly, licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.
- Some programs may be licensed on a managed basis only. In that case, the following applies. Instead of the entitlements required for the resources used by the program directly, licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.

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

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
<th>Value Unit exhibit</th>
</tr>
</thead>
<tbody>
<tr>
<td>5655-IM5</td>
<td>InfoSphere Classic Change Data</td>
<td>VUE007</td>
</tr>
<tr>
<td></td>
<td>Capture for z/OS</td>
<td></td>
</tr>
<tr>
<td>5655-IM4</td>
<td>InfoSphere Classic Federation</td>
<td>VUE007</td>
</tr>
<tr>
<td></td>
<td>Server for z/OS</td>
<td></td>
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<tr>
<td>5655-IM1</td>
<td>InfoSphere Data Replication for IMS</td>
<td>VUE007</td>
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<td>for z/OS</td>
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</tr>
<tr>
<td>5655-Y18</td>
<td>InfoSphere Data Replication for VSAM</td>
<td>VUE007</td>
</tr>
<tr>
<td></td>
<td>for z/OS</td>
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</table>

For each z/OS 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/OS 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>Tier</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>
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<tr>
<td>Tier D</td>
<td>316</td>
<td>+</td>
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Value Units for mainframes without MSU ratings:

<table>
<thead>
<tr>
<th>Hardware</th>
<th>Value Units/machine</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP3000 H30</td>
<td>6</td>
</tr>
<tr>
<td>MP3000 H50</td>
<td>8</td>
</tr>
<tr>
<td>MP3000 H70</td>
<td>12</td>
</tr>
<tr>
<td>ESL models</td>
<td>2</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 System z IPLA product, the applicable Value Units would be:

Translation from MSUs to Value Units

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

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

**Basic license**

**On/Off CoD**

IBM InfoSphere classic data replication and federation solutions for z/OS are eligible for On/Off CoD with a temporary use charge calculated based on MSUs per-day usage.

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.

Value Unit exhibit VUE007

Translation from MSUs to Value Units

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

Value Units for mainframes without MSU ratings

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</thead>
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<td>6</td>
</tr>
<tr>
<td>MP3000 H50</td>
<td>8</td>
</tr>
<tr>
<td>MP3000 H70</td>
<td>12</td>
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<tr>
<td>ESL models</td>
<td>2</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.

Program name: InfoSphere Classic Change Data Capture for z/OS, V11.1
Program PID: 5655-IMS

<table>
<thead>
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<th>Description</th>
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<tbody>
<tr>
<td>S017CLB</td>
<td>InfoSphere Classic CDC for z/OS</td>
<td>Basic OTC, per Value Unit</td>
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<tr>
<td></td>
<td></td>
<td>Basic OTC, per MSU-day TUC</td>
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</table>

Orderable supply ID Language Distribution medium

S017CL9 English 3590 tape
**Subscription and Support PID: 5655-W31**

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<tbody>
<tr>
<td>S016P0K</td>
<td>InfoSphere Classic CDC for z/OS</td>
<td>Basic MSC, per Value Unit SW S&amp;S No charge, decline SW S&amp;S Per MSU SW S&amp;S registration</td>
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<table>
<thead>
<tr>
<th>Orderable supply ID</th>
<th>Language</th>
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**Program name: InfoSphere Classic Federation Server for z/OS, V11.1**

**Program PID: 5655-IM4**

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<th>Description</th>
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<tbody>
<tr>
<td>S017DMZ</td>
<td>InfoSphere Classic Federation Server for z/OS (Datacom)</td>
<td>Basic OTC, per Value Unit TUC</td>
</tr>
<tr>
<td>S017DN0</td>
<td>InfoSphere Classic Federation Server for z/OS (Adabas)</td>
<td>Basic OTC, per Value Unit TUC</td>
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<td>S017CL3</td>
<td>InfoSphere Classic Federation Server for z/OS (IMS)</td>
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<td>S017DMX</td>
<td>InfoSphere Classic Federation Server for z/OS (VSAM)</td>
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<td>S017DN1</td>
<td>InfoSphere Classic Federation Server for z/OS (DB2)</td>
<td>Basic OTC, per Value Unit TUC</td>
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<td>S017DMW</td>
<td>InfoSphere Classic Federation Server for z/OS (IDMS)</td>
<td>Basic OTC, per Value Unit TUC</td>
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<table>
<thead>
<tr>
<th>Orderable supply ID</th>
<th>Description</th>
<th>Language</th>
<th>Distribution medium</th>
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<tr>
<td>S017DMS</td>
<td>InfoSphere Classic Federation Server for z/OS (Datacom)</td>
<td>English</td>
<td>3590 tape</td>
</tr>
<tr>
<td>S017DMT</td>
<td>InfoSphere Classic Federation Server for z/OS (Adabas)</td>
<td>English</td>
<td>3590 tape</td>
</tr>
<tr>
<td>S017CW3</td>
<td>InfoSphere Classic Federation Server for z/OS (IMS)</td>
<td>English</td>
<td>3590 tape</td>
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<tr>
<td>S017DMV</td>
<td>InfoSphere Classic Federation Server for z/OS (VSAM)</td>
<td>English</td>
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<td>S017DMP</td>
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<td>English</td>
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<td>S017DMR</td>
<td>InfoSphere Classic Federation Server for z/OS (IDMS)</td>
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**Subscription and Support PID: 5655-S03**

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<td>Basic MSC, per Value Unit SW S&amp;S No charge, decline SW S&amp;S</td>
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<td>S013KXX</td>
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Program name: InfoSphere Data Replication for IMS for z/OS, V11.1
Program PID: 5655-IM1

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Subscription and Support PID: 5655-W30

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Orderable supply ID | Language | Distribution   |
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Program name: InfoSphere Data Replication for VSAM for z/OS, V11.1
Program PID: 5655-Y18

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Orderable supply ID Language Distribution medium
S017CWL                English Hardcopy pub

Subscription and Support

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance. This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives you rights and support services comparable to those under the traditional ICA S/390® and System z license or its equivalent. To ensure that you continue to enjoy the level of support you are used to in the ICA business model, you must order both the license for the program and the support for the selected programs at the same Value Unit quantities.

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.

Delivery services -- Custom QuickShip Program

These products are eligible for the IBM Custom QuickShip Program.

Custom QuickShip combines flexible configurations with fast delivery. Customers and Business Partners are able to create product configuration of their choice by using a combination or stand-alone selection of hardware, software, and a menu of additional features, including the option for software preload. The inclusion of feature number 1748 will ensure Custom QuickShip delivery of the complete product configuration or stand-alone order.

The committed response time under Custom QuickShip is six business days from order acceptance by IBM to customer delivery.
Customized Offerings

Product deliverables are shipped only via CBPDO, ServerPac, SystemPac, FunctionPac, and ProductPac®.

All of 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, refer to the Shopz help information at http://www.software.ibm.com/ShopzSeries

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

- 3590
- 3592

Most products can be ordered in ServerPac, SystemPac, FunctionPac, and ProductPac the month following their availability in CBPDO. z/OS can be ordered via CBPDO, ServerPac, and SystemPac 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 CFS W will determine the eligibility based on product requisite checking. For more details on the Product ServerPac, visit the Help section on the Shopz website at http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp

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

- CBPDO shipments will begin one week after general availability.
- ServerPac shipments will begin two weeks after general availability.
- SystemPac, FunctionPac and ProductPac shipments will begin four weeks after general availability due to additional customization, and data input verification.

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 the IBM Agreement for Acquisition of Software Maintenance.

Licensing

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

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.

**License Information form number**

License information form numbers:

- L-GMET-99XKPA - InfoSphere Classic Change Data Capture for z/OS, V11.1
- L-GMET-99XKJP - InfoSphere Classic Federation Server for z/OS, V11.1
- L-GMET-99XJ5K - InfoSphere Data Replication for IMS for z/OS, V11.1
- L-GMET-99XKH5 - InfoSphere Data Replication for VSAM for z/OS, V11.1

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, consult the IBM Software Support Handbook found at

http://www.ibm.com/support/handbook

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

**Program support**

Enhanced support, called Subscription and Support, includes telephone assistance, as well as access to updates, releases, and versions of the program as long as support is in effect. You will be notified of discontinuance of support with 12 months' notice.

**Money-back guarantee**

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

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

**Volume orders (IVO)**

No
**Passport Advantage applies**

No

**Usage restrictions**

Yes

**Software Subscription and Support applies**

No. For operating system software, the revised IBM Operational Support Services - SoftwareXcel offering will provide support for those operating systems and associated products that are not available with the Software Subscription and Support (Software Maintenance) offering.

This will ensure total support coverage for your enterprise needs, including IBM and selected non-IBM products. For complete lists of products supported under both the current and revised offering, visit

http://www.ibm.com/services/sl/products

**System i® Software Maintenance applies**

No

**Variable charges apply**

Yes

**Educational allowance available**

Yes. When ordering through the program number process, a 15% education allowance applies to qualified education institution customers.

Education Software Allowance Program applies when ordering through the program number process.

**ESAP available**

Yes, to qualified customers.

**Sub-capacity terms and conditions**

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

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

<table>
<thead>
<tr>
<th>Program number</th>
<th>Program name</th>
<th>Terms</th>
<th>Parent, if applicable</th>
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<td>5655-IM5</td>
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<td>5655-IM4</td>
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Federation Server for z/OS

5655-IM1  InfoSphere Data Replication for IMS for z/OS
          Reference-based IMS V11, sub-capacity IMS V12

5655-Y18  InfoSphere Data Replication for VSAM for z/OS
          z/OS-based sub-capacity

**Full-capacity mainframes**
In cases where full capacity is applicable, the following terms apply.

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

For more information on mainframe MSU-rated capacities, visit


Reference based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the *parent program*.

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

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

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

Reference based: The required license capacity of a System z IPLA program with these terms equals the license capacity of the applicable monthly license charge (MLC) program. This MLC program is called the *parent program*.

Full machine based: The required license capacity of a System z IPLA program with full machine based terms equals the MSU-rated capacity of the machines where the System z IPLA program executes.

For more information on mainframe MSU-rated capacities, refer to *The IBM System z Machines Exhibit*, Z125-3901, or visit the Mainframes section of the System z Exhibits website.

http://ibm.com/zseries/library/swpriceinfo/

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

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

When a System z IPLA sub-capacity program with reference-based terms is used in a qualified Parallel Sysplex environment, the required license capacity of the System
z IPLA program must equal with the license capacity of the parent program across the Parallel Sysplex. Qualified Parallel Sysplex refers to one:

- Where MLC pricing is aggregated across the sysplex

**Sub-capacity eligibility**

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

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

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

http://ibm.com/zseries/swprice

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

- The complete terms and conditions of sub-capacity WLC are defined in the IBM Customer Agreement - Attachment for System z Workload License Charges (Z125-6516).
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM System z 890 and 800 License Charges (Z125-6587).

Additionally, you must sign and comply with the terms and conditions specified in the amendment to the IPLA contract - Amendment for IBM System z9® and System z Programs Sub-Capacity Pricing (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous System z IPLA sub-capacity terms and conditions.

**Sub-capacity utilization determination**

Sub-capacity utilization is determined based on the utilization of an eligible operating system and machine (for example, z/OS running in z/Architecture (64 bit mode) on a System z (or equivalent) server).

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

**On/Off Capacity on Demand (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 System z 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 prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, or misappropriated or can result in misuse of your systems to attack others. Without a
comprehensive approach to security, no IT system or product should be considered completely secure and no single product or security measure can be completely effective in preventing improper access. IBM systems and products are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective. IBM does not warrant that systems and products are immune from the malicious or illegal conduct of any party.

IBM Electronic Services

Electronic Service Agent™ and the IBM Electronic Support web portal are dedicated to providing fast, exceptional support to IBM Systems customers. The IBM Electronic Service Agent tool is a no-additional-charge tool that proactively monitors and reports hardware events, such as system errors, performance issues, and inventory. The Electronic Service Agent tool can help you stay focused on your company’s strategic business initiatives, save time, and spend less effort managing day-to-day IT maintenance issues. Servers enabled with this tool can be monitored remotely around the clock by IBM Support all at no additional cost to you.

Now integrated into the base operating system of AIX® 5.3, AIX 6.1, and AIX 7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type "smitty esa_main," and select "Configure Electronic Service Agent." In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

The IBM Electronic Support portal is a single Internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. This portal enables you to gain easier access to IBM resources for assistance in resolving technical problems. The My Systems and Premium Search functions make it even easier for Electronic Service Agent tool-enabled customers to track system inventory and find pertinent fixes.

Benefits

**Increased uptime:** The Electronic Service Agent tool is designed to enhance the Warranty or Maintenance Agreement by providing faster hardware error reporting and uploading system information to IBM Support. This can translate to less wasted time monitoring the "symptoms," diagnosing the error, and manually calling IBM Support to open a problem record. Its 24 x 7 monitoring and reporting mean no more dependence on human intervention or off-hours customer personnel when errors are encountered in the middle of the night.

**Security:** The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool securely transmits either via the Internet (HTTPS or VPN) or modem, and can be configured to communicate securely through gateways to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system. System inventory information is stored in a secure database, which is protected behind IBM firewalls. It is viewable only by the customer and IBM. The customer's business applications or business data is never transmitted to IBM.

**More accurate reporting:** Since system information and error logs are automatically uploaded to the IBM Support center in conjunction with the service
request, customers are not required to find and send system information, decreasing
the risk of misreported or misdiagnosed errors. Once inside IBM, problem error data
is run through a data knowledge management system and knowledge articles are
appended to the problem record.

**Customized support:** Using the IBM ID entered during activation, customers can view system and support information in the "My Systems" and "Premium Search" sections of the Electronic Support website at

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

My Systems provides valuable reports of installed hardware and software using information collected from the systems by Electronic Service Agent. Reports are available for any system associated with the customer's IBM ID. Premium Search combines the function of search and the value of Electronic Service Agent information, providing advanced search of the technical support knowledgebase. Using Premium Search and the Electronic Service Agent information that has been collected from your system, customers are able to see search results that apply specifically to their systems.

For more information on how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or visit

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

### Prices

For all local charges, contact your IBM representative.

**Subscription and Support**

To receive voice technical support via telephone and future releases and versions at no additional charge, Subscription and Support must be ordered. The capacity of Subscription and Support (Value Units) must be the same as the capacity ordered for the product licenses.

To order, specify the Subscription and Support program number (PID) referenced above and the appropriate license or charge option.

IBM is also providing Subscription and Support for these products via a separately purchased offering under the terms of the IBM International Agreement for Acquisition of Software Maintenance (IAASM). This offering:

- Includes and extends the support services provided in the base support to include technical support via telephone.
- Entitles you to future releases and versions, at no additional charge. Note that you are not entitled to new products.

When Subscription and Support is ordered, the charges will automatically renew annually unless cancelled by you.

The combined effect of the IPLA license and the Agreement for Acquisition of Software Maintenance gives customers rights and support services comparable to those under the traditional ICA S/390 and z/OS license or its equivalent. To enable customers to continue to receive a level of support comparable to the level of support they are used to receiving in the ICA business model, they must order both the license for the program and the support for the selected programs at the same Value Unit quantities.
IBM Global Financing

IBM Global Financing offers competitive financing to credit-qualified customers to assist them in acquiring IT solutions. Offerings include financing for IT acquisition, including hardware, software, and services, from both IBM and other manufacturers or vendors. Offerings (for all customer segments: small, medium, and large enterprise), rates, terms, and availability can vary by country. Contact your local IBM Global Financing organization or visit

http://www.ibm.com/financing

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Announcement countries

All European, Middle Eastern, and African countries.

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UNIX is a registered trademark of The Open Group in the United States and other countries.

Microsoft and Windows are trademarks of Microsoft Corporation in the United States, other countries, or both.

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For the most current information regarding IBM products, consult your IBM representative or reseller, or visit the IBM worldwide contacts page

http://www.ibm.com/planetwide/