



# 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 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
  - Improved CA-Datcom connectivity
- Eliminate geographic limitations between active and standby IMS™ data environments
- Reduce time to recovery for high-availability IMS environments with a hot standby platform

## Overview

IBM® InfoSphere classic data replication and federation solutions for IBM z/OS include:

- InfoSphere Classic Change Data Capture for z/OS, V10.1
- InfoSphere Classic Federation Server for z/OS, V10.1
- InfoSphere IMS Replication for z/OS, V10.1

These solutions:

- Enable IMS as a source for IBM's InfoSphere Change Data Capture solution
- Provide integration of nonrelational z/OS data through improved SQL-driven access to z/OS data sources
- Support replication of data between IMS databases

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## Key prerequisites

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Refer to the [Hardware and software requirements](#) section.

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## Planned availability date

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June 3, 2011

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## Description

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**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

The result is fast and consistent delivery of business-critical IMS data changes to drive:

- Dynamic data warehousing
- Service-oriented architecture (SOA) initiatives
- Live reporting
- Data consolidation and migration projects
- Master data management initiatives

**InfoSphere Classic Federation Server for z/OS** enhances IBM's premier z/OS data integration solution. New capabilities include:

- Encrypt password utility on z/OS, not just client
- Pass IP address of client in requests for use by SAF exit
- READ, COMMIT/READ, and UNCOMMIT isolation levels
- Persist DATACOM URT across requests
- Compatibility with new release of Software AG Adabas
- Enhanced z/OS sequential file support (GDGs, create file, and so on)
- Enhanced monitoring and metrics reporting and delivery
- Export and import metadata for migration between repositories
- Support for InfoSphere DataStage z/OS Filestage for improved integration
- Default configuration for InfoSphere DataStage users

**InfoSphere IMS Replication 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 IBM management solutions, InfoSphere IMS Replication for z/OS supports a hot standby environment that can dramatically reduce the time to recovery for today's 24x7 processing environments.

## Accessibility by people with disabilities

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

[http://www.ibm.com/able/product\\_accessibility/index.html](http://www.ibm.com/able/product_accessibility/index.html)

## Value Unit-based pricing

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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.

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## Program number

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Program number	VRM	Program name
5655-w29	10.1	IBM InfoSphere Classic Change Data Capture for z/OS
5655-w33	10.1	IBM InfoSphere Classic Federation Server for z/OS

## Product identification number

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Program PID number	Subscription and Support PID number
5655-w29	5655-w31
5655-w33	5655-s03
5655-w28	5655-w30

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## Offering Information

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Product information is available via the Offering Information website

<http://www.ibm.com/common/ssi>

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## Publications

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Publications for InfoSphere Classic Change Data Capture for z/OS are provided on DVD along with the GUI front end.

The following publications for InfoSphere Classic Federation Server for z/OS and InfoSphere IMS Replication for z/OS can be ordered after planned availability. To order, use the Publications Center or contact your IBM representative.

Title	Order number
InfoSphere Classic Federation Server for z/OS: Installation Guide for IBM InfoSphere Classic Federation Server for z/OS	GC19-3276
IBM InfoSphere Classic Federation Server for z/OS Guide and Reference	SC19-3277
System Messages for IBM InfoSphere Classic Federation Server for z/OS	GC19-3278
InfoSphere IMS Replication for z/OS: Installation Guide for IBM InfoSphere IMS Replication for z/OS	GC19-3279
IBM InfoSphere IMS Replication for z/OS Guide and Reference SC19-3280-00	SC19-3280
System Messages for IBM InfoSphere IMS Replication for z/OS	GC19-3281

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.

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## Technical information

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### Specified operating environment

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#### **Hardware and software requirements**

For the most current information regarding system requirements and supported data sources, refer to

<http://www.ibm.com/support/docview.wss?uid=swg27021357>

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.

### Planning information

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#### **Packaging**

Unique to each supported platform -- DB2®, IMS, VSAM, CA-Datcom, CA-IDMS, and Software AG Adabas -- IBM InfoSphere classic data replication and federation products for z/OS are distributed with the following:

- IBM International Program License Agreement
- One 3590 tape uncompressed
- Program Directory
- Quick Start card
- One DVD with Classic Data Architect kit
- One DVD with Classic Federation Server tools

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

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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.

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## Ordering information

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#### **Charge metric**

Program name	Part number or PID number	Charge metric
Infosphere Classic Change Data Capture for z/OS	5655-w29	Value units
InfoSphere Classic Federation Server for z/OS	5655-w33	Value units
InfoSphere IMS Replication for z/OS	5655-w28	Value units

## Resource Value Unit

Resource Value Unit (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 table below. 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 Resource Value Unit 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.

Program number	Program name	Value Unit exhibit
5655-w29	InfoSphere Classic Change Data Capture for z/OS	VUE007
5655-w33	InfoSphere Classic Federation Server for z/OS	VUE007
5655-w28	InfoSphere IMS Replication for z/OS	VUE007

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

	MSUS minimum	MSUS maximum	Value Units/MSU
Base	1	3	1
Tier A	4	45	0.45
Tier B	46	175	0.36
Tier C	176	315	0.27
Tier D	316	+	0.2

Value Units for mainframes without MSU ratings:

Hardware	Value Units/machine
MP3000 H30	6
MP3000 H50	8
MP3000 H70	12
ESL models	2

### 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

	MSUs	*	Value Units/MSU	=	Value Units
Base	3	*	1.00	=	3.00
Tier A	42	*	.45	=	18.90
Tier B	130	*	.36	=	46.80
Tier C	140	*	.27	=	37.80
Tier D	1,185	*	.20	=	237.00
Total	1,500				343.50

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.

Program name: InfoSphere Classic Change Data Capture for z/OS, V10.1  
Program PID: 5655-w29

Entitlement identifier	Description	License option/ Pricing metric
S016P0G	InfoSphere Classic Change Data Capture for z/OS (IMS)	Basic OTC, per value unit Basic OTC, per MSU-day TUC
Orderable supply ID	Language	Distribution medium
S016P0F	English	3590 tape

Subscription and Support PID: 5655-w31

Entitlement identifier	Description	License option/ Pricing metric
S016P0K	InfoSphere Classic Change Data Capture for z/OS S&S (IMS)	Basic MSC, per value unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
Orderable supply ID	Language	Distribution medium
S016P0J	English	Hardcopy pub

Program name: InfoSphere Classic Federation Server for z/OS, V10.1  
Program PID: 5655-w33

Entitlement identifier	Description	License option/ Pricing metric
S016P0P	InfoSphere Classic Federation Server for z/OS (CA-Datacom)	Basic OTC, per value unit Basic OTC, per MSU-day TUC
S016P0M	InfoSphere Classic Federation Server for z/OS (Software AG Adabas)	Basic OTC, per value unit Basic OTC, per MSU-day TUC
S016P16	InfoSphere Classic Federation Server for z/OS (DB2)	Basic OTC, per value unit Basic OTC, per MSU-day TUC
S016P0L	InfoSphere Classic Federation Server for z/OS (CA-IDMS)	Basic OTC, per value unit Basic OTC, per MSU-day TUC

S016P15	InfoSphere Classic Federation Server for z/OS (VSAM)	Basic OTC, per value unit
S016P0N	InfoSphere Classic Federation Server for z/OS (IMS)	Basic OTC, per MSU-day TUC

Orderable supply ID	Description	Language	Distribution medium
S016P0S	InfoSphere Classic Federation Server for z/OS (CA-Datacom)	English	3590 tape
S016P0V	InfoSphere Classic Federation Server for z/OS (Software AG Adabas)	English	3590 tape
S016P0X	InfoSphere Classic Federation Server for z/OS (DB2)	English	3590 tape
S016P10	InfoSphere Classic Federation Server for z/OS (CA-IDMS)	English	3590 tape
S016P12	InfoSphere Classic Federation Server for z/OS (VSAM)	English	3590 tape
S016P14	InfoSphere Classic Federation Server for z/OS (IMS)	English	3590 tape

Subscription and Support PID: 5655-S03

Entitlement identifier	Description	License option/ Pricing metric
S013KXX	InfoSphere Classic Federation Server for z/OS S&S (CA-Datacom)	Basic MSC, per value unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
S013KXW	InfoSphere Classic Federation Server for z/OS S&S (Software AG Adabas)	Basic MSC, per value unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
S013KZF	InfoSphere Classic Federation Server for z/OS S&S (DB2)	Basic MSC, per value unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
S013KKZL	InfoSphere Classic Federation Server for z/OS S&S (CA-IDMS)	Basic MSC, per value unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
S013KZN	InfoSphere Classic Federation Server for z/OS S&S (IMS)	Basic MSC, per value unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
S013KZT	InfoSphere Classic Federation Server for z/OS S&S (VSAM)	Basic MSC, per value unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration

Orderable supply ID	Description	Language	Distribution medium
S013KKV	InfoSphere Classic Federation Server for z/OS S&S (Software AG Adabas)	Multi-lingual	Hardcopy pub
S013KXS	InfoSphere Classic Federation Server for z/OS S&S (DB2)	Multi-lingual	Hardcopy pub
S013KZK	InfoSphere Classic Federation Server for z/OS S&S (IMS)	Multi-lingual	Hardcopy pub
S013KKR	InfoSphere Classic Federation Server for z/OS S&S (CA-Datacom)	Multi-lingual	Hardcopy pub
S013KXV	InfoSphere Classic Federation Server for z/OS S&S (CA-IDMS)	Multi-lingual	Hardcopy pub
S013KZR	InfoSphere Classic Federation Server for z/OS S&S (VSAM)	Multi-lingual	Hardcopy pub

Program name: InfoSphere IMS Replication for z/OS, V10.1  
Program PID: 5655-w28

Entitlement identifier	Description	License option/ Pricing metric
S016P06	InfoSphere IMS Replication for z/OS	Basic OTC, per value unit Basic OTC, per MSU-day TUC



Orderable supply ID	Language	Distribution medium
S016P08	English	3590 tape

Subscription and Support PID: 5655-W30

Entitlement identifier	Description	License option/ Pricing metric
S016P0C	InfoSphere IMS Replication for z/OS S&S	Basic MSC, per value unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration

Orderable supply ID	Language	Distribution medium
S016P0B	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 (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.

### ***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**

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

CBPDO and ServerPac are offered for Internet delivery in countries where ShopzSeries product ordering is available. Internet delivery reduces software delivery time and allows you to install software without the need to handle tapes. For more details on Internet delivery, refer to the ShopzSeries help information at

<http://www.software.ibm.com/ShopzSeries>

You choose the delivery method when you order the software. IBM recommends Internet delivery. In addition to Internet and DVD, the supported tape delivery options for CBPDO, ServerPac, and SystemPac, include:

- 3590
- 3592

Most products can be ordered in ServerPac and SystemPac the month following their availability on CBPDO. z/OS can be ordered via all three offerings at general availability. Production of software product orders will begin on the planned general availability date.

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

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## **Terms and conditions**

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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-86JKHP - InfoSphere Classic Change Data Capture for z/OS, V10.1
- L-GMET-86JKKK - InfoSphere Classic Federation Server for z/OS, V10.1
- L-GMET-8D7S47 - InfoSphere IMS Replication for z/OS, V10.1

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

<http://www.ibm.com/software/sla/sladb.nsf>

### ***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. A 15% education allowance applies to qualified education institution customers.

### **Sub-capacity terms and conditions**

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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

For more information on the Value Unit Exhibit for the z/OS IPLA program you selected, refer to the [Ordering information](#) section.

Program number	Program name	Terms	Parent, if applicable
5655-w29	InfoSphere Classic Change Data Capture for z/OS	z/OS-based sub-capacity	
5655-w33	InfoSphere Classic Federation Server for z/OS	z/OS-based sub-capacity	
5655-w28	InfoSphere IMS Replication for z/OS	Reference-based sub-capacity	IMS V10, IMS V11

### **Sub-capacity mainframes**

The following terms apply.

**z/OS-based sub-capacity:** The required license capacity of a z/OS IPLA program with these terms equals the license capacity of z/OS (and z/OS.e) on the machines where the z/OS IPLA program executes.

**Reference-based sub-capacity:** The required license capacity of a z/OS 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*.

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

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

For more information on sub-capacity z/OS IPLA terms and conditions, refer to Software Announcement [ZA04-0227](#), dated August 10, 2004.

For additional information for products with reference-based terms, z/OS IPLA sub-capacity programs with reference-based terms adds value to the parent program across the environment, regardless of where in the environment the z/OS 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 z/OS IPLA program with referenced-based terms, each environment should be assessed separately.

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

- That meets the criteria defined in Hardware Announcement [ZA98-0120](#), dated January 13, 1998
- Where MLC pricing is aggregated across the sysplex

### ***Sub-capacity eligibility***

To be eligible for sub-capacity charging on select z/OS 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 z/OS (or equivalent). On that machine:

- All instances of the OS/390® operating system must be migrated to the z/OS (or z/OS.e) operating systems
- Any licenses for the OS/390 operating system must be discontinued
- All instances of the z/OS operating (or z/OS.e) 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 z/OS 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 z/OS Workload License Charges (Z125-6516)
- The complete terms and conditions for sub-capacity EWLC are defined in the IBM Customer Agreement - Attachment for IBM eServer™ z/OS 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 z/OS and eServer zSeries® Programs Sub-Capacity Pricing* (Z125-6929). Once the amendment is signed, the terms in the amendment replace any and all previous z/OS IPLA sub-capacity terms and conditions.

### ***Sub-capacity utilization determination***

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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)***

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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.

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## IBM Electronic Services

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

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

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To learn how Electronic Services can work for you, visit

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## Prices

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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.

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- 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.

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the license for the program and the support for the selected programs at the same Value Unit quantities.

**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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