



IBM InfoSphere Replication Server for z/OS and IBM InfoSphere Data Event Publisher for z/OS extend real-time data integration solutions for IBM DB2 for z/OS

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At a glance

IBM® InfoSphere™ Replication Server, V10.1 provides a foundation for DB2® for z/OS® that helps you:

- Build continuous availability and active-active solutions
- Integrate DB2 for z/OS change data into data warehouse and business intelligence solutions
- Distribute data between central sites and remote locations such as branch offices and retail outlets
- Consolidate data throughout the enterprise in DB2 for z/OS
- Synchronize data between DB2 for z/OS subsystems for load balancing

IBM InfoSphere Data Event Publisher, V10.1 can be used to publish changed data from the DB2 log to WebSphere® MQ for use by applications and products such as InfoSphere DataStage™.

For ordering, contact your IBM representative, an IBM Business Partner, or IBM Americas Call Centers at 800-IBM-CALL (Reference: LE001).

Overview

IBM InfoSphere Replication Server for z/OS, V10.1 provides high-performance data replication and allows integration of data from DB2 for z/OS; DB2 for Linux®; UNIX®; Windows®; InfoSphere Warehouse; the IBM Smart Analytics Systems; Oracle; and other relational databases.

Key features include:

- Scalable, high-volume, low-latency replication of data
- Transformation and filtering of changed data through SQL
- Easy feed of changed data to extract, transform, and load (ETL) tools such as InfoSphere DataStage
- Design for IBM System z® with an SMP/E install, automatic ARM registration, and RACF® support
- Support of DB2 for z/OS, V10 Large Objects (LOBs), edit procs, field procs, and automatic use of DB2's Load from Cursor for fast load of target tables
- Historical data for tuning and Service Level Agreement compliance

- Web-based health and performance monitoring
- Robust conflict detection and resolution
- Built-in data comparison utilities for determining data differences between sources and targets
- A full-featured command-line processor and graphical user interface

These features help you build solutions for continuous availability, real-time reporting, dynamic data warehousing, integration of applications, database migration, data synchronization, and data consolidation.

InfoSphere Replication Server for z/OS is the new name for the product formerly known as WebSphere Replication Server for z/OS.

IBM InfoSphere Data Event Publisher for z/OS, V10.1 helps you integrate DB2 for z/OS changed data into business processes.

InfoSphere Data Event Publisher for z/OS is the new name for the product formerly known as WebSphere Data Event Publisher for z/OS.

Key prerequisites

Refer to the [Hardware requirements](#) and [Software requirements](#) sections.

Planned availability date

October 22, 2010

Description

IBM InfoSphere Replication Server for z/OS, V10.1 enhances Q Replication and SQL Replication by adding new features to Replication Server for z/OS and incorporating enhancements delivered in PTFs for the prior version of the product.

Selected features that deliver benefits to your business:

- Support of new function in DB2 for z/OS, V10
 - Temporal tables
 - Timestamp with time zone
 - Leveraging inline Large Objects for improved replication performance
- Improved support of continuous availability and active-active solutions
 - Automatically replicate Alter Column data type actions.
 - Have Q Capture read to the end of the database log before shutdown to ensure data is captured for replication to secondary systems.
 - Control Q Capture restart at the queue level.
 - Use new spill-resume conflict and error actions in Q Apply to automatically spill changed data to queues during target table maintenance and other activities.
 - Have Q Apply ignore a range of transactions queued, but no longer needed, after the start up of a failed site in disaster recovery.
- A Performance Advisor for Q Replication
 - Built into Replication Server's Q Replication Dashboard, the Performance Advisor helps you tune your Q Replication configuration.
- Performance enhancements for Q Replication
 - Have Q Capture group DB2 transactions by a number you choose for more efficient transport across the network.

- Keep application workloads active when adding new tables to bidirectional and peer-to-peer subscriptions. The initialization protocol for new tables now allows application activity on replicated tables during the initialization of related Q subscriptions.
- Use nonpersistent WebSphere MQ messages to reduce latency and overhead.
- Enhanced features of SQL Replication
 - Support of DB2 for z/OS not-logged table spaces for SQL Replication CD tables. This can significantly reduce the log overhead traditionally associated with staged data.
 - Export SQL Replication information in an InfoSphere DataStage (dsx) format for easy integration of changed data into DataStage jobs.
 - More SQL Apply statistical data for health and performance monitoring.
- More options for loading target tables.
 - Control the maximum number of parallel loads that can be done by Q Apply.
 - Optionally, replicate source table load operations to target tables.
 - Have Q Apply load a single target table from multiple source tables.
 - Allow Q Apply parallel load with non-DB2 target tables.
 - Have Q Apply support SQL*Loader for Oracle tables.
- Enhanced features of the Q Replication Dashboard
 - Deploy to an existing WebSphere Application Server.
 - Use the new Recovery Advisor to assist in failover, switchback, and unexpected outages.
 - Email health and performance reports.
 - View the contents of source and target tables in a single dialog.
 - Take advantage of recent customization options.

InfoSphere Data Event Publisher for z/OS, V10.1 is a subset of Q Replication that allows you to link DB2 changed-data events with business processes and drive change-only updating of data warehouses, datamarts, and operational data stores. The data change is published to WebSphere MQ queues for general use.

InfoSphere Data Event Publisher enables database events to initiate business processes. For example, a change in an inventory value could be used to drive a product restocking workflow, or the addition of a customer record could initiate a new customer process that includes a welcome email, credit verification, and accounting update. This creates an application-independent, loosely coupled integration that is more adaptable to changing application environments.

While multiple applications may impact the value of the inventory level, a single point of integration -- the data -- is driving the work flow. Changes to the applications that impact the inventory level can be made with virtually no impact on the data event-driven integration. Businesses can realize faster time to market because integration captures the event in a single location, is more stable, and is easier to maintain.

Additionally, InfoSphere Data Event Publisher solutions can deliver changes to extract, transform, and load tools like InfoSphere DataStage, or custom-built processes for updating operational data stores and data warehouses, minimizing bandwidth requirements and keeping target databases updated in near real time. Businesses can utilize information that is much more current for tactical and operational decision making.

Selected features that deliver benefits to your business:

- Support of new function in DB2 for z/OS, V10
 - Temporal tables
 - Timestamp with timezone
 - Leverage in-line LOBs for improved replication performance

- Performance enhancements
 - Allow use of nonpersistent WebSphere MQ messages to reduce latency and overhead.
- Enhanced features of the Q Replication Dashboard
 - Deploy to an existing WebSphere Application Server.
 - Email health and performance reports.
 - Take advantage of recent customization options.

Accessibility by people with disabilities

A U.S. 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

Section 508 of the U.S. Rehabilitation Act

InfoSphere Replication Server for z/OS, V10 and InfoSphere Data Event Publisher for z/OS, V10 are capable as of October 19, 2010, when used in accordance with IBM's associated documentation, of satisfying the applicable requirements of Section 508 of the Rehabilitation Act, provided that any assistive technology used with the product properly interoperates with it. A U.S. Section 508 Voluntary Product Accessibility Template (VPAT) can be requested at

http://www.ibm.com/able/product_accessibility/index.html

Program number

Program number	VRM	Program name
5655-IRS	10.1.0	InfoSphere Replication Server for z/OS
5655-DEP	10.1.0	InfoSphere Data Event Publisher for z/OS

Product identification number

Program PID number	Subscription and Support PID number
5655-IRS	5655-S06
5655-DEP	5655-M50

Education support

Available training offerings include client onsite training, public training at IBM facilities, and remote learning via FlexLearning. Through client onsite training, IBM delivers standard or customized training to address the requirements of its clients. IBM can also provide mobile academies for a rental fee to significantly reduce clients' setup activities.

IBM public training simplifies the process by providing a comprehensive environment for standard course deliveries and giving students the ability to learn without the distractions of everyday responsibilities. Public training is offered on a regular schedule worldwide. For more information on public instructor-led training, visit

<http://www-306.ibm.com/software/data/ips/services/learning.html>

The newly enhanced FlexLearning program enables clients to attend training on their own schedule at their own location. This program offers state-of-the-art

technology to deliver highly valuable training at reduced cost. All current courses are approximately three hours in length and offer a valuable learn-by-doing, self-paced format.

For more information on any of these training offerings, contact

iiseduc@us.ibm.com

Offering Information

Product information is available via the Offering Information website

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

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 IBM ID).

<https://www.ibm.com/partnerworld/mem/sla.jsp?num=210-382>

Publications

Softcopy publications are packaged with InfoSphere Replication Server for z/OS, V10.1 and InfoSphere Data Event Publisher for z/OS, V10.1 as PDF files on a CD in the product package.

Technical information

Specified operating environment

Hardware requirements

InfoSphere Replication Server for z/OS, V10.1 and InfoSphere Data Event Publisher for z/OS, V10.1 require the z/OS V1.10, or later, operating system.

Software requirements

Minimum software requirements for IBM InfoSphere Replication Server for z/OS, V10.1 and IBM InfoSphere Data Event Publisher for z/OS, V10.1 include WebSphere MQ for z/OS (5655-F10), V6.0, or later, and one of the following:

- DB2 Universal Database™ (5625-DB2), V8.1
- DB2 Universal Database (5697-N29) Value Unit Edition, V8
- DB2 Universal Database (5635-DB2), V9.1
- DB2 Universal Database (5635-P12) Value Unit Edition, V9
- DB2 Universal Database (5635-DB2), V10.1
- DB2 Universal Database (5635-P12) Value Unit Edition, V10

For Q Replication, WebSphere MQ for z/OS, V6.0, or later, is required. A restricted use license of WebSphere for z/OS, V7.0 is included at no additional charge.

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

Product upgrades and technical support are provided by the Software Subscription and Support (also referred to as Software Maintenance) offering as described in the Agreements. Product upgrades provide the latest versions and releases to entitled software, and technical support provides voice and electronic access to IBM support organizations worldwide.

IBM includes one year of Software Subscription and Support with each program license acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available.

While your Software Subscription and Support is in effect, IBM provides assistance for your routine, short-duration installation and usage (how-to) questions, and code-related questions. IBM provides assistance via telephone and, if available, electronic access to your technical support personnel during normal business hours (published prime shift hours) of your IBM support center. (This assistance is not available to your end users.) IBM provides Severity 1 assistance 24 hours a day, 7 days a week. For additional details, consult your IBM Software Support Handbook at

<http://www.ibm.com/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, or failures caused by products for which IBM is not responsible under applicable agreements.

Packaging

InfoSphere Replication Server for z/OS consists of the following components:

- InfoSphere Replication Server for z/OS, V10.1 Tape
- InfoSphere Replication Server for z/OS, V10.1 Workbench CD
- InfoSphere Replication Server for z/OS, V10.1 Samples CD
- InfoSphere Replication Server for z/OS, V10.1 Product Documentation CD

InfoSphere Data Event Publisher for z/OS consists of the following components:

- InfoSphere Data Event Publisher for z/OS, V10.1 Tape
- InfoSphere Data Event Publisher for z/OS, V10.1 Workbench CD
- InfoSphere Data Event Publisher for z/OS, V10.1 Samples CD
- InfoSphere Data Event Publisher for z/OS, V10.1 Product Documentation CD

Security, auditability, and control

InfoSphere Replication Server for z/OS, V10.1 and InfoSphere Data Event Publisher for z/OS, V10.1 use the security and auditability features of the host hardware and software. The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communication facilities.

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 or to contact a Software Services sales specialist, visit

<http://www.ibm.com/software/sw-services/>

Ordering information

Charge metric

Program name	PID number	Charge metric
InfoSphere Replication Server for z/OS, v10.1	5655-IRS	Value Unit
InfoSphere Data Event Publisher for z/OS, v10.1	5655-DEP	Value Unit

Program number	Program name	Value Unit	Exhibit
5655-IRS	InfoSphere Replication Server for z/OS, v10.1	VUE007	
5655-DEP	InfoSphere Data Event Publisher for z/OS, v10.1	VUE007	

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.

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 U.S. and several countries in Europe. In countries where ShopzSeries is not yet available, 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

<http://www14.software.ibm.com/webapp/ShopzSeries/ShopzSeries.jsp>

Basic license

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 Replication Server for z/OS, V10.1
Program PID: 5655-IRS

Entitlement identifier	Description	License option/ Pricing metric
S016GF9	Licensed function InfoSphere Replication Server for z/OS (SQL repl for DB2)	Basic OTC, per Value Unit Basic OTC, per MSU-day TUC
S016GF7	Licensed function InfoSphere Replication Server for z/OS (SQL and Q repl for DB2)	Basic OTC, per Value Unit Basic OTC, per MSU-day TUC
S016GF8	Licensed function InfoSphere Replication Server for z/OS (Q repl for DB2)	Basic OTC, per Value Unit Basic OTC, per MSU-day TUC

Orderable Supply ID	Description	Distribution medium
S016GFH	InfoSphere Replication Server for z/OS (SQL repl for DB2)	3590 Tape Cartridge
S016GFC	InfoSphere Replication Server for z/OS (SQL and Q repl for DB2)	3590 Tape Cartridge
S016GFF	InfoSphere Replication Server for z/OS (Q repl for DB2)	3590 Tape Cartridge
S016KR3	WebSphere MQ for z/OS Base, Multilingual	3590 Tape Cartridge

Subscription and Support PID: 5655-S06

Entitlement identifier	Description	License option/ Pricing metric
S012MN8	Licensed function InfoSphere Replication Server for z/OS (SQL repl for DB2)	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
S012MN9	Licensed function InfoSphere Replication Server for z/OS (SQL and Q repl for DB2)	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
S012MNB	Licensed function InfoSphere Replication Server for z/OS (Q repl for DB2)	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration

Orderable supply ID	Language	Distribution medium
S012LJG	US English (Q repl for DB2)	Hardcopy pub
S012MN5	US English (SQL repl for DB2)	Hardcopy pub
S012MN7	US English (SQL and Q repl for DB2)	Hardcopy pub

Program name: InfoSphere Data Event Publisher for z/OS, V10.1
Program PID: 5655-DEP

Entitlement identifier	Description	License option/ Pricing metric
S016GFL	Licensed function InfoSphere Data Event Publisher for DB2 for z/OS	Basic OTC, per Value Unit BASIC OTC, per MSU-day TUC

Orderable supply ID	Description	Distribution medium
S016GFK	InfoSphere Data Event Publisher for DB2 for z/OS	3590 Tape Cartridge
S016KR5	WebSphere MQ for z/OS Base, Multilingual	3590 Tape Cartridge

Subscription and Support PID: 5655-M50

Entitlement identifier	Description	License option/ Pricing metric
S01190N	Licensed function InfoSphere Data Event Publisher for DB2 for z/OS	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration

Orderable supply ID	Language	Distribution medium
S011910	US English	Hardcopy pub

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*. The required license capacity is based on:

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

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

Customized Offerings

Product deliverables are shipped only via CBPDO, ServerPac, and 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.

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.

IBM System z Operational Support Services - SoftwareXcel is an option if you desire added services.

License Information form numbers

The 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. The software license includes Software Subscription and Support (also referred to as Software Maintenance).

IBM InfoSphere Replication Server for z/OS, V10

License information

License form number: GC19-3187-00

Program Directory: GI10-8866-00

IBM InfoSphere Data Event Publisher for z/OS, V10

License information

License form number: GC19-3188-00

Program Directory: GI10-8867-00

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 restriction

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 enable 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>

IBM Operational Support Services -- SoftwareXcel

Yes

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

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

Sub-capacity utilization determination

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.

IBM Electronic Services

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.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM

on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, visit

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

Prices

For additional information and current prices, contact your local IBM representative.

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 Replication Server for z/OS, v10.1
 Program PID: 5655-IRS

Entitlement identifier	Description	License option/ Pricing metric
S016GF9	Licensed function InfoSphere Replication Server for z/OS (SQL repl for DB2)	Basic OTC, per Value Unit Basic OTC, per MSU-day TUC
S016GF7	Licensed function InfoSphere Replication Server for z/OS (SQL and Q repl for DB2)	Basic OTC, per Value Unit Basic OTC, per MSU-day TUC
S016GF8	Licensed function InfoSphere Replication Server for z/OS (Q repl for DB2)	Basic OTC, per Value Unit Basic OTC, per MSU-day TUC

Orderable Supply ID	Description	Distribution medium
S016GFH	InfoSphere Replication Server for z/OS (SQL repl for DB2)	3590 Tape Cartridge
S016GFC	InfoSphere Replication Server for z/OS (SQL and Q repl for DB2)	3590 Tape Cartridge
S016GFF	InfoSphere Replication Server for z/OS (Q repl for DB2)	3590 Tape Cartridge
S016KR3	WebSphere MQ for z/OS Base, Multilingual	3590 Tape Cartridge

Subscription and Support PID: 5655-S06

Entitlement identifier	Description	License option/ Pricing metric
S012MN8	Licensed function InfoSphere Replication Server for z/OS (SQL repl for DB2)	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
S012MN9	Licensed function InfoSphere Replication Server for z/OS (SQL and Q repl for DB2)	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration
S012MNB	Licensed function InfoSphere Replication Server for z/OS (Q repl for DB2)	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration

Orderable supply ID	Language	Distribution medium
S012LJG	US English (Q repl for DB2)	Hardcopy pub
S012MN5	US English (SQL repl for DB2)	Hardcopy pub
S012MN7	US English (SQL and Q repl for DB2)	Hardcopy pub

Program name: InfoSphere Data Event Publisher for z/OS, V10.1
Program PID: 5655-DEP

Entitlement identifier	Description	License option/ Pricing metric
S016GFL	Licensed function InfoSphere Data Event Publisher for DB2 for z/OS	Basic OTC, per Value Unit BASIC OTC, per MSU-day TUC

Orderable Supply ID	Description	Distribution medium
S016GFK	InfoSphere Data Event Publisher for DB2 for z/OS	3590 Tape Cartridge
S016KR5	WebSphere MQ for z/OS Base, Multilingual	3590 Tape Cartridge

Subscription and Support PID: 5655-M50

Entitlement identifier	Description	License option/ Pricing metric
S01190N	Licensed function InfoSphere Data Event Publisher for DB2 for z/OS	Basic ASC, per Value Unit SW S&S No charge, decline SW S&S Per MSU SW S&S registration

Orderable supply ID	Language	Distribution medium
S011910	US English	Hardcopy pub

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-03.ibm.com/financing/us/index.html>

IBM Global Financing offerings are provided through IBM Credit LLC in the United States, and other IBM subsidiaries and divisions worldwide to qualified commercial and government customers. Rates are based on a customer's credit rating, financing terms, offering type, equipment type, and options, and may vary by country. Other restrictions may apply. Rates and offerings are subject to change, extension, or withdrawal without notice.

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