



IBM InfoSphere Guardium S-TAP for IMS and InfoSphere Guardium S-TAP for VSAM on z/OS enable you to audit changes

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At a glance

InfoSphere® Guardium® S-TAP™ for IMS™, V8.2 includes support for:

- Capture of database and segment reads and changes (insert, update, delete)
- Capture of segment concatenated key and segment data on request to provide before and after images of updated segments
- Capture of access to IMS datasets outside the control of IMS services (database datasets, image copy datasets, IMS log datasets, RECON datasets)
- Direct streaming of audit data from z/OS® process to a networked Guardium appliance to support near real-time reporting
- System STOP and START activity as recorded in the IMS log

InfoSphere Guardium S-TAP for VSAM on z/OS, V8 includes support for:

- Capture of VSAM Open, Update, Delete, Rename, Create, and Alter events
- Capture of related VSAM RACF® events
- Monitoring only the data sets you care about
- ESDS, KSDS, RRDS, CRRDS, and LDS file types
- Direct streaming of audit data from z/OS process to a networked Guardium appliance to support near real-time reporting

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

Overview

InfoSphere Guardium S-TAP for IMS on z/OS is a software component of the InfoSphere Guardium solution. DL/I Read, Insert, Update, and Delete calls on databases and segments, as well as access to IMS datasets outside the control of IMS services, are collected for processing by the Guardium appliance.

InfoSphere Guardium S-TAP for VSAM on z/OS is also a software component of the InfoSphere Guardium solution. It captures VSAM dataset events (Open, Update, Delete, Rename, Create, Alter) as well as related RACF events (Alter, Control, Update, Read) on most common VSAM file types (ESDS, KSDS, RRDS, VRRDS, LDS).

Both InfoSphere Guardium S-TAP for IMS and Guardium S-TAP for VSAM send information specified by user-defined audit policies to an InfoSphere Guardium Collector for z/OS appliance.

You can employ both solutions independently in the mainframe environment only, or integrate them with other InfoSphere Guardium database security and monitoring components across the enterprise to enable a more secure centralized audit repository and management point.

For more information on the IBM InfoSphere Guardium family of products, visit

<http://www.ibm.com/software/data/guardium/>

Key prerequisites

For InfoSphere Guardium S-TAP for z/OS for VSAM

z/OS 1.10 (5694-A01), or later

For InfoSphere Guardium S-TAP for z/OS for IMS

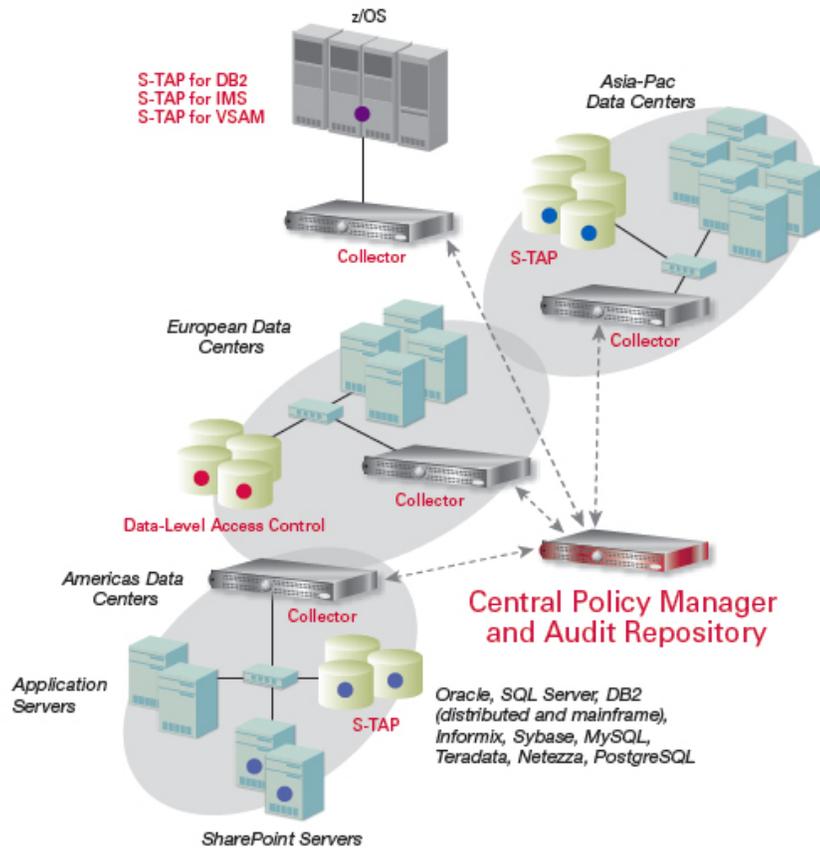
- z/OS 1.10 (5694-A01), or later
- One of the following IMS versions:
 - IMS 9 for z/OS (5655-J38)
 - IMS 10 for z/OS (5635-A01)
 - IMS 11 for z/OS (5635-A02)

Planned availability date

September 9, 2011

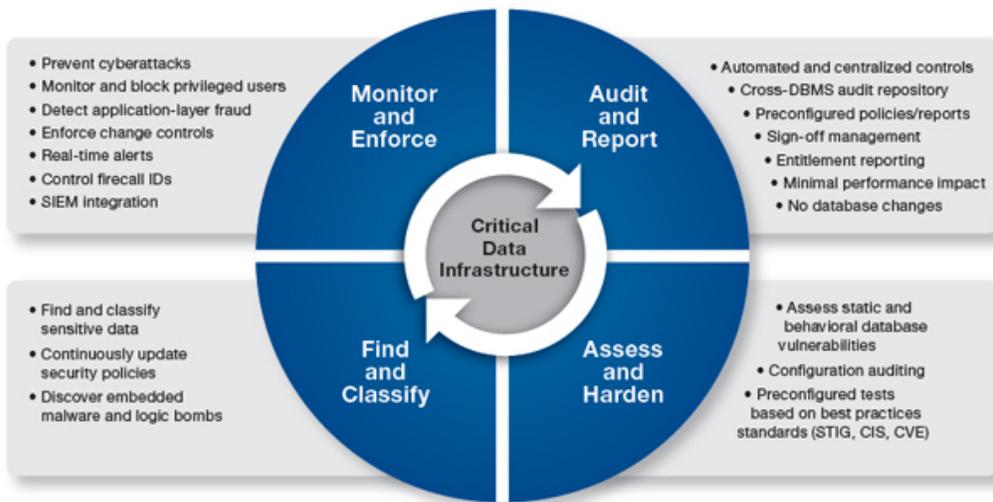
Description

The InfoSphere Guardium appliance is a simple, robust solution for preventing data leaks from databases and files, helping to ensure the integrity of information in the data center and automating compliance controls. It provides a scalable platform, intended to enable continuous monitoring of heterogeneous database and document sharing infrastructures, as well as enforcement of your policies for sensitive data access enterprise-wide. Designed to be a secure, centralized audit repository combined with an integrated compliance workflow automation application, the appliance is intended to streamline compliance validation activities across a wide variety of mandates.



The InfoSphere Guardium appliance's architecture enables users to select the modules appropriate for their immediate needs, adding additional modules as requirements grow and change. Available modules include:

- Database Activity Monitor
- Central Manager and Aggregator Application
- Database Vulnerability Assessment Application
- Database Protection Knowledge Base
- Configuration Audit System Application
- Data-Level Access Control
- Enterprise Integrator
- Application End-User Identifier
- Sensitive Data Finder Application
- Advanced Compliance Workflow Application
- Entitlement Reports Applications



The InfoSphere Guardium appliance is intended to address the entire database security and compliance life cycle with a unified web console, back-end data store, and workflow automation system, helping enable you to:

- Locate and classify sensitive information in corporate databases
- Assess database vulnerabilities and configuration flaws
- Ensure configurations are locked down after recommended changes are implemented
- Provide high visibility and granularity into all database transactions -- across all supported platforms and protocols -- with an audit trail that supports separation of duties and that is designed to be secure and tamper-proof.
- Track activities on major file sharing platforms like Microsoft™ SharePoint
- Monitor and enforce your policies for sensitive data access, privileged user actions, change control, application user activities, and security exceptions such as failed logins
- Automate the entire compliance auditing process -- including report distribution to oversight teams, sign-offs and escalations with preconfigured reports for SOX, PCI DSS, and data privacy
- Create a single, centralized audit repository for enterprise-wide compliance reporting, performance optimization, investigations, and forensics
- Easily scale from safeguarding a single database to protecting thousands of databases in distributed data centers around the world

Accessibility by people with disabilities

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

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

Program number	VRM	Program name
5655-STV	V8.2	InfoSphere Guardium S-TAP for VSAM on z/OS
5655-STW	V8.2	InfoSphere Guardium S-TAP for VSAM on z/OS S&S S&S
5655-STM	V8.2	InfoSphere Guardium S-TAP for IMS on z/OS
5655-STN	V8.2	InfoSphere Guardium S-TAP for IMS on z/OS S&S S&S

Product identification numbers

Program number	PID	Subscription and Support PID number
5655-STV		5655-STW
5655-STM		5655-STN

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=211-311>

Publications

The IBM Publications Center portal is at

<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 or customer number. A large number of publications are available online in various file formats. They can all be downloaded free of charge.

The following publications are available on the IBM Publications Center. Also, one copy is shipped automatically with the basic machine-readable material.

Title	Order number
InfoSphere Guardium S-TAP on IMS for z/OS, V8.2 License Information	GC19-3345
InfoSphere Guardium S-TAP on IMS for z/OS, V8.2 Program Directory	GI10-8903
InfoSphere Guardium S-TAP on VSAM for z/OS, V8.2 License Information	GC19-3347
InfoSphere Guardium S-TAP on VSAM for z/OS, V8.2 Program Directory	GI10-8904

In addition, the following publications are available in softcopy format on the IBM Publications Center and on the InfoSphere Guardium website

<http://www.ibm.com/software/data/guardium/>

Title	Order number
InfoSphere Guardium S-TAP on IMS for z/OS, V8.2 User's Guide	SC19-3344
InfoSphere Guardium S-TAP on IMS for z/OS, V8.2 Program Directory	GI10-8903
InfoSphere Guardium S-TAP on VSAM for z/OS, V8.2 User's Guide	SC19-3346
InfoSphere Guardium S-TAP on VSAM for z/OS, V8.2 Program Directory	GI10-8904

The following material also is available on the InfoSphere Guardium website:

- Fact sheet
- Data Sheet: InfoSphere Guardium (IMD14286-CAEN)
- Specification sheets
- User's guides
- White papers

Technical information

Specified operating environment

Hardware requirements

Refer to the [Software requirements](#) section for the website that lists all requirements.

Software requirements

All software requirements for InfoSphere Guardium S-TAP for VSAM on z/OS V8.2 and InfoSphere Guardium S-TAP for IMS on z/OS V8.2 are available at

<http://www.ibm.com/support/docview.wss?uid=swg27021801>

The programs' 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

Packaging

InfoSphere Guardium S-TAP for VSAM on z/OS

- InfoSphere Guardium S-TAP for VSAM on z/OS SMP/E-installable tape
- IBM standard IPLA license (Z125-3301)
- License Information (GC19-3347)

InfoSphere Guardium S-TAP for IMS on z/OS

- InfoSphere Guardium S-TAP for IMS on z/OS SMP/E-installable tape
- IBM standard IPLA license (Z125-3301)
- License Information (GC19-3345)

Security, auditability, and control

The InfoSphere Guardium family of products uses 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.

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

Licensees of IMS Audit Management Expert for z/OS, V1.2 who are current on Software Subscription and Support (Software Maintenance) are entitled to receive InfoSphere Guardium S-TAP for IMS on z/OS, V8.2 free of charge, as indicated in the following table. Software Subscription and Support Charges will continue to apply. Licensees must have their license upgraded from the IMS Audit Management Expert product (and its corresponding Subscription and Support) to the InfoSphere Guardium S-TAP for IMS product (and its Subscription and Support) on an individual basis. Contact your IBM representative for details on the necessary steps to obtain Proof of Entitlement to the InfoSphere Guardium S-TAP for IMS product.

For more information, refer to Software Announcement [209-219](#), dated August 04, 2009.

Existing IMS Audit Management Expert product	Corresponding Guardium S-TAP for IMS product
IMS Audit Management Expert for z/OS, V1.1 (5655-R23)	InfoSphere Guardium S-TAP for for IMS on z/OS, V8.2 (5655-STM)
IMS Audit Management Expert for z/OS, V1.1 S&S (5655-R24)	InfoSphere Guardium S-TAP for for IMS on z/OS, V8.2 (5655-STN)

PID number	Charge metric	Program name
5655-STV	value Units	InfoSphere Guardium S-TAP for VSAM on z/OS
5655-STW	value Units	InfoSphere Guardium S-TAP for VSAM on z/OS S&S
5655-STM	value Units	InfoSphere Guardium S-TAP for IMS on z/OS
5655-STN	value Units	InfoSphere Guardium S-TAP for IMS on z/OS S&S

The programs in this announcement all have Value Unit-based pricing.

Value unit exhibit	Program number	Program name
VUE007	5655-STV	InfoSphere Guardium S-TAP for VSAM on z/OS
VUE007	5655-STM	InfoSphere Guardium S-TAP for IMS on z/OS

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

- The System z IPLA program you select

- The applicable Value Unit Exhibit
- The applicable terms
- Whether your current mainframes are full capacity or sub-capacity

Value Unit exhibit VUE007

	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

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

Program name:

InfoSphere Guardium S-TAP for VSAM on z/OS, V8.2

Program PID: 5655-STV

Entitlement identifier	License option/ Pricing metric	Description
S016T77	Basic OTC, per MSU-day TUC	InfoSphere Guardium S-TAP for VSAM on z/OS

Program name:

InfoSphere Guardium S-TAP for IMS on z/OS, V8.2

Program PID: 5655-STM

Entitlement identifier	License option/ Pricing metric	Description
S016T7F	Basic OTC, per MSU-day TUC	InfoSphere Guardium S-TAP for IMS on z/OS

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 Guardium S-TAP for VSAM on z/OS, V8.2
 Program PID: 5655-STV

Entitlement identifier	License option/ Pricing metric	Description
S016T77	Basic OTC, per Value Unit	InfoSphere Guardium S-TAP for VSAM on z/OS

Orderable supply ID	Language	Distribution medium
S016T78	English	3590 tape

Program name:
 InfoSphere Guardium S-TAP for IMS on z/OS, V8.2
 Program PID: 5655-STM

Entitlement identifier	License option/ Pricing metric	Description
S016T7F	Basic OTC, per Value Unit	InfoSphere Guardium S-TAP for IMS on z/OS

Orderable supply ID	Language	Distribution medium
S016T7G	English	3590 tape

Program name:
 InfoSphere Guardium S-TAP for VSAM on z/OS S&S
 Subscription and Support PID: 5655-STW

Entitlement identifier	License option/ Pricing metric	Description
S016T7B	Basic ASC, per Value Unit SW S&S Per MSU SW S&S registration No charge, decline SW S&S	InfoSphere Guardium S-TAP for VSAM on z/OS S&S

Orderable supply ID	Language	Distribution medium
S016T7C	English	Hardcopy pub

Program name:
 InfoSphere Guardium S-TAP for IMS on z/OS S&S
 Subscription and Support PID: 5655-STN

Entitlement identifier	License option/ Pricing metric	Description
S016T7J	Basic ASC, per Value Unit SW S&S	InfoSphere Guardium S-TAP for IMS on z/OS S&S

Per MSU SW S&S
registration

No charge,
decline SW S&S

Orderable supply ID	Language	Distribution medium
S016T7K	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.

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.

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

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 numbers

Form number	Product number	Product name
GC19-3347	5655-STV	InfoSphere Guardium S-TAP for VSAM on z/OS
GC19-3345	5655-STM	InfoSphere Guardium S-TAP for IMS on z/OS

The programs' 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. For information on usage restrictions, refer to the License Information document that is available for each product on the IBM Software License Agreement website

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

Software Subscription and Support applies

Yes. All distributed software licenses include Software Subscription and Support (also referred to as Software Maintenance) for a period of 12 months from the date of acquisition, providing a streamlined way to acquire IBM software and assure technical support coverage for all licenses. Extending coverage for a total of three years from date of acquisition may be elected.

While your Software Subscription and Support is in effect, IBM provides you 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, only to your information systems (IS) technical support personnel

during the 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, every day of the year. 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 this agreement.

For more information about the Passport Advantage Agreement, visit the Passport Advantage website at

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

IBM Operational Support Services -- SoftwareXcel

No

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 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 System z 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.

Program number	Program name	Terms	Parent, if applicable
5655-STV	Infosphere Guardium S-TAP for VSAM on z/OS	z/OS-based	
5655-STM	Infosphere Guardium S-TAP for IMS on z/OS	Reference-based	IMS 9 for z/OS IMS 10 for z/OS IMS 11 for z/OS

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

<http://www-1.ibm.com/servers/eserver/zseries/library/swpriceinfo/>

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.

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Program name:
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Program PID: 5655-STM

Entitlement identifier	License option/ Pricing metric	Description
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	Basic OTC, per MSU-day TUC	

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Entitlement identifier	License option/ Pricing metric	Description
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Program name:
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Subscription and Support PID: 5655-STN

Entitlement identifier	License option/ Pricing metric	Description
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Per MSU SW S&S
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