IBM Security Guardium V10: Analyze, protect, and adapt to secure sensitive data from loss and prevent unauthorized data access, changes, and leaks from big data environments, files, and applications

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At a glance

IBM(R) Security Guardium(R) is a comprehensive data security and protection platform that can help you eliminate costly and high-risk manual and silo approaches to data security and compliance. Guardium is a data protection platform that can support focused needs (for example, around compliance) and that can grow with you as your data protection needs change by adding the additional Guardium modules you require.

Modules updated in this release include:

- IBM Security Guardium Data Activity Monitor V10.0 continuously monitors all data access operations in real-time to detect unauthorized actions based on detailed contextual information -- the who, what, where, when, and how of each data access.
- IBM Security Guardium Vulnerability Assessment V10.0 scans database infrastructures to detect vulnerabilities and suggests remedial actions.
- IBM Security Guardium for Applications V10.1 can protect sensitive or confidential data exposed in a web application, without requiring changes to the application itself.

New in this release is the IBM Security Guardium for Files V10.0 module, which provides insight into your document and file content, and usage patterns.

Overview

IBM Security Guardium, formerly known as IBM InfoSphere(R) Guardium, is designed to help safeguard critical data. Guardium is a comprehensive data-protection platform that enables security teams to automatically analyze what is happening in sensitive-data environments (databases, data marts, big data platforms, cloud environments, files systems, and so on) to help minimize risk, protect sensitive data from internal and external threats, and seamlessly adapt to IT changes that may impact data security. Guardium helps ensure the integrity of information in data centers and automate compliance controls.

New in version 10.0 are the following module updates and additions.

IBM Security Guardium Data Activity Monitor V10.0 (component of IBM Security Guardium Data Security and Compliance V10.0) improvements:

- Automatic load balancing enables users to seamlessly reorganize their Guardium agents (Software TAP or S-TAP(R)) by automatically determining the best configuration for performance.
- Fine-grained access controls for SQL traffic protects private data by dynamically masking it based on the SQL request without requiring changes to applications or database schemas.
- A business-centric user interface and redesigned workflows streamline the process for common tasks. New dashboarding and reporting capabilities enhance communication and awareness for operations, security, and compliance assessments.
- Enterprise readiness enhancements make security easier to deploy and use in large environments. Enhancements including:
  - The ability to discover Guardium Installation Manager without interference with the data source.
  - Job scheduling configuration for better serialization of tasks.
  - Quick Search for Enterprise, which enables users to centralize their analysis of audit data with pivot-like searches, helping to facilitate gathering insights on data traffic from across the enterprise. It uses a federated approach to rapidly collect insight across the Enterprise Security Guardium deployment. Additionally, it includes analytic tools, such as the Investigation Dashboard to help with forensics, a Topology Navigator to filter central searches, and performance enhancements to the Outlier Detection tool.
- Provides data activity monitor support for Teradata AsterDB and EMC Pivotal.
- Support for new versions of existing data platforms. Updates have been made to data activity monitor for Oracle 12c, Sybase ASE 16, Sybase 1Q 15.4, Postgress 9.3, Microsoft™ SQL 14, and Cloudera CDH 5.x. Also, updates have been made to support SUSE Linux™ 12, Red Hat Enterprise Linux (RHEL) 7, and z/OS(R) V2.2 operating systems.
- Blocking for big data platforms improves data protection on MongoDB and Cassandra platforms, and now on Hive and BigSQL components for Hadoop environments.
- Certifications for compliance. Out-of-the-box readiness and compliance with FIPS-140-2 and Common Criteria guidelines.

IBM Security Guardium Vulnerability Assessment V10.0 (component of IBM Security Guardium Data Security and Compliance V10.0) improvements:

- With support for new data platforms, Guardium Vulnerability Assessment continues to have the widest data source coverage of any vulnerability assessment product in the industry. It provides support for in-memory databases, analytical databases, NoSQL databases, and most popular traditional relational databases, now including support for IBM DB2(R) for iSeries, Teradata AsterDB, SAP HANA, and Mongo DB.

IBM Security Guardium for Applications V10.1 improvements:

- New format preserving encryption masking capability option
- Improved format preserving tokenization to better capture format and be cryptographically stronger, including a hardened tokenization map
- Additional templates for common applications, frameworks, and browser support

New IBM Security Guardium for Files V10.0 solution

File Activity Monitor, a component of IBM Security Guardium for Files, can help you meet compliance obligations and reduce the risks of major data breaches. It provides insight into your document and file content, and usage patterns. File activity monitor lets you discover, track, and control access to sensitive files on

either local or networked file systems. File activity monitor consists of the following capabilities:

- Discovery: Inventory all files and metadata to provide a clear picture of your unstructured data landscape.
- Classification: Automatically search through files to look for potentially sensitive data, such as credit card information, sensitive healthcare data, or other personally identifiable information.
- Monitor and block: Use after discovery and classification to monitor access to files and based on policy rules, audit and alert on inappropriate access, or even block access to the files to prevent data leakage.

Key prerequisites

The solution can be easily deployed in a wide variety of environments. Refer to the Software requirements section for details.

Planned availability date

- August 28, 2015: Electronic availability
- September 4, 2015: Physical availability

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

Description

IBM Security Guardium products are designed to secure and continuously monitor access to data in enterprise databases, data warehouses, file systems, applications, document sharing solutions, and big data environments, such as Hadoop or NoSQL. Additionally, they are designed to assist you in enforcing your policies for sensitive data access across the enterprise, using a scalable platform.

A centralized audit repository designed to maximize Guardium, combined with an integrated application that automates compliance workflow, enables the products to help you streamline compliance validation activities across a wide variety of mandates.

IBM Security Guardium products can help you with these tasks:

- Monitor data activity and protect sensitive data by:
  - Automatically locating databases and file systems and subsequently discovering and classifying sensitive information within them
  - Enabling high visibility at a granular level into database, file systems, data warehousing, document-sharing, and Hadoop and NoSQL transactions that involve sensitive data
  - Tracking and dynamically masking activities of users who access data indirectly through enterprise applications
  - Monitoring and enforcing a wide range of policies, including sensitive data access, database change control, and privileged user actions
  - Creating a single, secure centralized audit repository for large numbers of heterogeneous systems and databases
  - Automating the entire compliance auditing process, including creating and distributing reports and capturing comments and signatures
- Harden database infrastructure against vulnerabilities by:
  - Automatically assessing database vulnerabilities and configuration flaws
  - Locking down configurations after recommended changes are implemented
  - Discovering existing entitlements to data to access appropriate access rights

The Guardium solution is designed for ease of use and scalability. It can be configured for a single data repository or a large number of heterogeneous data sources located across the enterprise. It integrates with IT management and other Guardium management solutions that are designed to enable comprehensive data protection across the enterprise.

This solution is available as preconfigured hardware appliances shipped by IBM or as software appliances that may be installed on your platform. Optional features can easily be added to your system after installation.

The Guardium product architecture enables you to select the modules appropriate for your immediate needs and to add modules as your requirements grow and change. Available modules:

- Data Activity Monitor and Audit - Express^(R):
  - Data Activity Monitor for data sources with preset best practices policies
  - Normalized audit log creation
  - Preset reports for compliance
- Data Activity Monitor and Audit - Standard:
  - Data Activity Monitor available for four data environments:
    -- Databases, which includes traditional databases and file sharing and document sharing
    -- Data warehouses
    -- Big data (Hadoop and NoSQL databases)
    -- File systems
  - Real-time alerts on suspicious activities and other Guardium events
  - Detailed audit reports and built-in compliance workflow engine
  - Application user activity monitoring (Application End-User Identifier)
- Data Activity Monitor and Audit - Advanced: All capabilities in Data Activity Monitor Audit - Standard, plus the ability to:
  - Block data traffic according to policy (data-level access control)
  - Quarantine unauthorized user
  - Mask unauthorized extraction of sensitive data
    -- Dynamic data masking for SQL traffic, on both the result set or by enforcing fine-grained access to database objects
    -- Dynamic data masking on web application traffic outgoing to the browser
- Vulnerability Assess and Monitor:
  - Database (traditional and NoSQL) Vulnerability Assessment Application for detailed vulnerability assessment reports, including recommended remediation steps and ongoing progression analysis
  - Database Protection Knowledge Base, a subscription-based module to update the system with the latest threats, vulnerabilities, and best-practices recommendations
  - Configuration Audit System Application (CAS)
- Central Manager and Aggregator Pack:
  - Central Manager and Aggregator application
  - Advanced Compliance Workflow application
- Base appliances:
  - Physical or virtual appliance image, including cloud deployments, or both
  - Enterprise Integrator
  - Entitlement Reporting

– Sensitive Data Finder application

Guardium products address the database Guardium and compliance lifecycle with a unified web console, back-end data store, and workflow automation system, which are intended to help you do the following tasks:

- Locate and classify sensitive information and its entitlements in corporate databases.
- Assess database and NoSQL database server and operating system vulnerabilities and configuration flaws.
- Ensure that configurations are locked down after recommended changes are implemented.
- Enable high visibility and granularity into data transactions and activity, 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 systems and file and document sharing platforms such as Microsoft SharePoint.
- Monitor and enforce your policies with alerting and blocking for sensitive data access, privileged user actions, change control, application user activities, and Guardium exceptions such as failed logins.
- Automate the entire compliance auditing process, including report distribution to oversight teams, sign-offs, and escalations with preconfigured reports relating to Sarbanes-Oxley, 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 data source to protecting all data sources in distributed data centers around the world.
- Enable deeper data activity insights to IT Guardium Information and Event Management tools for more accurate and effective Guardium intelligence.

The new IBM Security Guardium Monitor for Files product offers a robust, simple-to-use solution that is designed to prevent unauthorized data access and changes to your files and documents stored on file servers, file shares, and attached and removable devices. The solution helps to ensure the integrity of information in the data center and to automate compliance controls. It leverages the overall Guardium infrastructure to offer a scalable platform, intended to enable continuous file activity monitoring from heterogeneous sources, and helps you enforce policies for sensitive data access enterprise-wide.

Gain insight into your data and its owners:

- Analyze the metadata of your documents and understand their ownership.
- Analyze the contents of your documents and discover where your most sensitive data is stored.
- Determine if the right owners have access to the correct data.
- Discover where unused data resides.
- Determine if users have too broad of an access level to your most sensitive data.

Protect your sensitive data and provide an audit trail:

- Detect who is using your data and when.
- Detect mass copying of files and directories.
- Detect sudden spikes in file access activity by a user.
- Get alerted when monitored files are accessed improperly.
- Block access to your most sensitive documents.
- Be able to generate custom reports for all activity.

Modular capabilities for protecting file system data provide flexibility. A typical scenario could include the following workflow and features:

1. Run initial discovery to gather file metadata and decide which directories should be included in deeper analysis of file content, in order to identify files containing personal and confidential information. The discovery process can identify metadata such as file size, last changed date, and access privileges. Discovery results can be viewed through an intuitive File Quick Search UI. For ongoing operations, periodic discovery scans can be scheduled to pick up new and changed files and directories.
2. Run classification actions to identify sensitive data stored within your files. A number of predefined classification rules will be included out-of-the-box: HIPAA, PCI, SOX, and source code. The classification rules are customizable in order to offer you flexibility as to the type of data you want to classify in the future. Classification supports most common file formats, such as Microsoft Office (Doc, PPT, XLS), text, XML, HTML, PDF, CSV, source code, log files, email files, and many others.
3. From the discovery and classification results, you can use the file activity monitoring policy builder to create monitoring rules that align with your Guardium policies.
4. The monitoring software captures and sends activity that matches the Guardium policy rules criteria to the Guardium collector, where it is stored in the Guardium repository. It monitors the following operations: read, write, execute, delete, change in owner, permissions, and properties. Based on the policy, the monitoring software can audit (capture events), alert, and block.
5. Access to files can be blocked, even if the operating system permissions allow access. Because the file monitoring rules are activated locally on the monitored server, blocking occurs immediately. The data requested by the user is simply never read from disk; the Guardium software blocks and prevents the operation.
6. Set up an audit process to send Entitlement and Activity reports to reviewers. It is possible to raise the level of awareness for certain activities by setting up alerts or logging them as policy violations. These can then be viewed in a separate File Access report or accessed through the Quick Search UI.
7. The Report Builder can then be used to create reports on audited file activity. Predefined reports include user privileges, file privileges, count of activity per user, count of activity per server, count of activity per client, files open to public, dormant users, dormant files, and entitlement changes.

Guardium for Files supports Windows™, Linux, and UNIX™ file systems, and attached and removable devices. All file formats stored on supported file systems are supported for discovery, monitoring, and blocking activities.

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

Availability of national languages

The user interface will be available in Simplified Chinese, Traditional Chinese, and Japanese on November 20, 2015.

Program number

Program number	VRM	Program name
5725-G03	10.1	IBM Security Guardium for Applications
5725-I11	10.0	IBM Security Guardium Appliances

Program number	VRM	Program name
5725-I12	10.0	IBM Security Guardium Data Security and Compliance
5725-V56	10.0	IBM Security Guardium for Files

Education support

IBM training provides education to support many IBM offerings. Descriptions of courses for IT professionals and managers are on the IBM training website

http://www.ibm.com/services/learning/

Contact your IBM representative for course information.

Offering Information

Product information is available via the Offering Information website

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

Also, visit the Passport Advantage(R) website

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

Publications

No publications are shipped with these programs.

IBM Security Guardium documentation is published in IBM Knowledge Center at

http://www-01.ibm.com/support/knowledgecenter/SSMPHH_10.0.0

The IBM Publications Center portal is located 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. A large number of publications are available online in various file formats, and they can all be downloaded by all countries.

Services

Global Technology Services

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

Technical information

Specified operating environment

Hardware requirements

For information on hardware requirements, refer to the Software requirements section.

Software requirements

For information on software requirements, refer to

http://www-01.ibm.com/support/knowledgecenter/SSMPHH_9.5.0/
com.ibm.guardium91.doc/overv iew/topics/release_notes.html

The program's specifications and specified operating environment information may be found in documentation accompanying the program, if available, such as a readme file, or other information published by IBM, such as an announcement letter. Documentation and other program content may be supplied only in the English language.

IBM Electronic Support

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

http://ibm.com/electronicsupport

Access the IBM Support Portal

http://ibm.com/support

Access the online Service Request tool

http://ibm.com/support/servicerequest

Planning information

Packaging

IBM Security Guardium for Applications, IBM Security Guardium for Appliances, IBM Security Guardium Data Security and Compliance, and IBM Security Guardium for Files are distributed with the following:

• Product code on CD and DVD

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.

Direct customer support

Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express(R). Product upgrades and technical support are provided by the Software Subscription and Support 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.

Security, auditability, and control

IBM Security Guardium products are installed as a hardened Linux appliance (physical or virtual). The appliance includes various security, audit, and compliance functions to help ensure the availability of the solution, confidentiality of the data stored on the appliance, and accountability for any configuration changes.

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

Ordering information

For ordering information, consult your IBM representative or authorized IBM Business Partner, or visit

http://www.ibm.com/software/support/pa.html

This product is only available via Passport Advantage. It is not available as shrinkwrap.

These products may only be sold directly by IBM or by authorized IBM Business Partners for Software Value Plus.

For more information about IBM Software Value Plus, visit

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http://www.ibm.com/partnerworld/wps/bplocator/

Product Group: Security Guardium

Product Identifier Description: 5725-G03, 5725-I11, 5725-I12, 5725-V56

Product Category: Security Guardium Appliance

Passport Advantage

5723-G03 - IBM Security Guardium for Applications

D1C5QLL	IBM Security Guardium Dynamic Data Masking for Applications User Value Unit License + SW Subscription & Support 12 Months
D1C5RLL	IBM Security Guardium Dynamic Data Masking for Applications User Value Unit SW Subscription & Support Reinstatement 12 Months
D1C5SLL	IBM Security Guardium Dynamic Data Masking for Applications Managed Virtual Server License + SW Subscription & Support 12 Months
D1C5TLL	IBM Security Guardium Dynamic Data Masking for Applications Managed Virtual Server SW Subscription & Support Reinstatement 12 Months

E0KQFLL	IBM Security Guardium Dynamic Data Masking for Applications User Value Unit Annual SW Subscription & Support Renewal 12 Months
E0KQGLL	IBM Security Guardium Dynamic Data Masking for Applications Managed Virtual Server Annual SW Subscription & Support Renewal 12 Months

5725-V56 - IBM Security Guardium for Files

D1GPQLL	IBM Security Guardium Standard Activity Monitor for Files Resource Value Unit License + SW Subscription & Support 12 Months
D1GPRLL	IBM Security Guardium Standard Activity Monitor for Files Resource Value Unit SW Subscription & Support Reinstatement 12 Months
E0LKULL	IBM Security Guardium Standard Activity Monitor for Files Resource Value Unit Annual SW Subscription & Support Renewal
D1GPSLL	IBM Security Guardium Advanced Activity Monitor for Files Resource Value Unit License + SW Subscription & Support 12 Months
D1GPTLL	IBM Security Guardium Advanced Activity Monitor for Files Resource Value Unit SW Subscription & Support Reinstatement 12 Months
D1GPULL	IBM Security Guardium Advanced Activity Monitor for Files Resource Value Unit from from Guardium Standard Activity Monitor for Files Trade Up License + SW Subscription & Support 12 Months
E0LKVLL	IBM Security Guardium Advanced Activity Monitor for Files Resource Value Unit Annual SW Subscription & Support Renewal

5725-I11 - IBM Security Guardium Appliances

D0THSLL	IBM Security Guardium Collector Software Appliance Install License + SW Subscription & Support 12 Months
D0THTLL	IBM Security Guardium Collector Software Appliance Install SW Subscription & Support Reinstatement 12 Months
E0ELGLL	IBM Security Guardium Collector Software Appliance Install Annual SW Subscription & Support Renewal
D0THQLL	IBM Security Guardium Aggregator Software Appliance Install License + SW Subscription & Support 12 Months
D0THRLL	IBM Security Guardium Aggregator Software Appliance Install SW Subscription & Support Reinstatement 12 Months
E0ELFLL	IBM Security Guardium Aggregator Software Appliance Install Annual SW Subscription & Support Renewal
D0THNLL	IBM Security Guardium Security Platform Software Appliance Install License + SW Subscription & Support 12 Months

D0THPLL	IBM Security Guardium Guardium Platform Software Appliance Install SW Subscription & Support Reinstatement 12 Months
E0ELELL	IBM Security Guardium Guardium Platform Software Appliance Install Annual SW Subscription & Support Renewal
D1320LL	IBM Security Guardium Collector Appliance X2132 Appliance Install Appliance + Subscription and Support 12 Months
D1321LL	IBM Security Guardium Collector Appliance X2132 Appliance Install Appliance Maintenance + Subscription and Support Reinstatement 12 Months
D1322LL	IBM Security Guardium Collector Appliance X2132 Appliance Install Initial Appliance Business Critical Service Upgrade 12 Months
D1323LL	IBM Security Guardium Collector Appliance X2132 Appliance Install Initial Appliance Hard Drive Retention Service Upgrade 12 Months
E0J4VLL	IBM Security Guardium Collector Appliance X2132 Appliance Install Annual Appliance Maintenance + Subscription and Support Renewal
E0J4WLL	IBM Security Guardium Collector Appliance X2132 Appliance Install Subsequent Appliance Business Critical Service Upgrade 12 Months
E0J4XLL	IBM Security Guardium Collector Appliance X2132 Appliance Install Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months
D1324LL	IBM Security Guardium Collector Appliance X2164 Appliance Install Appliance + Subscription and Support 12 Months
D1325LL	IBM Security Guardium Collector Appliance X2164 Appliance Install Appliance Maintenance + Subscription and Support Reinstatement 12 Months
D1326LL	IBM Security Guardium Collector Appliance X2164 Appliance Install Initial Appliance Business Critical Service Upgrade 12 Months
D1327LL	IBM Security Guardium Collector Appliance X2164 Appliance Install Initial Appliance Hard Drive Retention Service Upgrade 12 Months
E0J4YLL	IBM Security Guardium Collector Appliance X2164 Appliance Install Annual Appliance Maintenance + Subscription and Support Renewal
E0J4ZLL	IBM Security Guardium Collector Appliance X2164 Appliance Install Subsequent Appliance Business Critical Service Upgrade 12 Months
E0J50LL	IBM Security Guardium Collector Appliance X2164 Appliance Install Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months
E0J51LL	IBM Security Guardium Aggregator Appliance X2132 Appliance Install Annual Appliance Maintenance + Subscription and Support Renewal

E0J53LL	IBM Security Guardium Aggregator Appliance X2132 Appliance Install Subsequent Appliance Business Critical Service Upgrade 12 Months
E0J54LL	IBM Security Guardium Aggregator Appliance X2132 Appliance Install Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months
D1328LL	IBM Security Guardium Aggregator Appliance X2132 Appliance Install Appliance + Subscription and Support 12 Months
D1329LL	IBM Security Guardium Aggregator Appliance X2132 Appliance Install Appliance Maintenance + Subscription and Support Reinstatement 12 Months
D132CLL	IBM Security Guardium Aggregator Appliance X2132 Appliance Install Initial Appliance Business Critical Service Upgrade 12 Months
D132DLL	IBM Security Guardium Aggregator Appliance X2132 Appliance Install Initial Appliance Hard Drive Retention Service Upgrade 12 Months
D132ELL	IBM Security Guardium Aggregator Appliance X2164 Appliance Install Appliance + Subscription and Support 12 Months
D132FLL	IBM Security Guardium Aggregator Appliance X2164 Appliance Install Appliance Maintenance + Subscription and Support Reinstatement 12 Months
D132GLL	IBM Security Guardium Aggregator Appliance X2164 Appliance Install Initial Appliance Business Critical Service Upgrade 12 Months
D132HLL	IBM Security Guardium Aggregator Appliance X2164 Appliance Install Initial Appliance Hard Drive Retention Service Upgrade 12 Months
E0J55LL	IBM Security Guardium Aggregator Appliance X2164 Appliance Install Annual Appliance Maintenance + Subscription and Support Renewal
E0J56LL	IBM Security Guardium Aggregator Appliance X2164 Appliance Install Subsequent Appliance Business Critical Service Upgrade 12 Months
E0J57LL	IBM Security Guardium Aggregator Appliance X2164 Appliance Install Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months
D132ILL	IBM Security Guardium Collector Appliance X3064 Appliance Install Appliance + Subscription and Support 12 Months
D132JLL	IBM Security Guardium Collector Appliance X3064 Appliance Install Appliance Maintenance + Subscription and Support Reinstatement 12 Months
D134JLL	IBM Security Guardium Collector Appliance X3064 Appliance Install Initial Appliance Business Critical Service Upgrade 12 Months
D134LLL	IBM Security Guardium Collector Appliance X3064 Appliance Install Initial Appliance

	Hard Drive Retention Service Upgrade 12 Months
E0J58LL	IBM Security Guardium Collector Appliance X3064 Appliance Install Annual Appliance Maintenance + Subscription and Support Renewal
E0J5ELL	IBM Security Guardium Collector Appliance X3064 Appliance Install Subsequent Appliance Business Critical Service Upgrade 12 Months
E0J5FLL	IBM Security Guardium Collector Appliance X3064 Appliance Install Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months
D134MLL	IBM Security Guardium Aggregator Appliance X3064 Appliance Install Appliance + Subscription and Support 12 Months
D134NLL	IBM Security Guardium Aggregator Appliance X3064 Appliance Install Appliance Maintenance + Subscription and Support Reinstatement 12 Months
D134PLL	IBM Security Guardium Aggregator Appliance X3064 Appliance Install Initial Appliance Business Critical Service Upgrade 12 Months
D134QLL	IBM Security Guardium Aggregator Appliance X3064 Appliance Install Initial Appliance Hard Drive Retention Service Upgrade 12 Months
E0J5GLL	IBM Security Guardium Aggregator Appliance X3064 Appliance Install Annual Appliance Maintenance + Subscription and Support Renewal
E0J5HLL	IBM Security Guardium Aggregator Appliance X3064 Appliance Install Subsequent Appliance Business Critical Service Upgrade 12 Months
E0J5ILL	IBM Security Guardium Aggregator Appliance X3064 Appliance Install Subsequent Appliance Hard Drive Retention Service Upgrade 12 Months

5725-I12 - IBM Security Guardium Data Security and Compliance

D0TIELL	IBM Security Guardium Standard Activity Monitor for Databases Processor Value Unit (PVU) for Linux on System z$^{(R)}$ SW Subscription & Support Reinstatement 12 Months
D0TIFLL	IBM Security Guardium Standard Activity Monitor for Databases Processor Value Unit (PVU) for Linux on System z License + SW Subscription & Support 12 Months
D0TIGLL	IBM Security Guardium Standard Activity Monitor for Databases Processor Value Unit (PVU) SW Subscription & Support Reinstatement 12 Months
D0TIHLL	IBM Security Guardium Standard Activity Monitor for Databases Processor Value Unit (PVU) License + SW Subscription & Support 12 Months
D1FRVLL	IBM Security Guardium Standard Activity Monitor for Databases Processor Value Unit (PVU) for Linux on System z Monthly License
D14UPLL	IBM Security Guardium Standard Activity Monitor for Databases Processor Value

	Unit (PVU) from Express Activity Monitor for Databases Trade Up License + SW Subscription & Support 12 Months
E0ELSLL	IBM Security Guardium Standard Activity Monitor for Databases Processor Value Unit (PVU) for Linux on System z Annual SW Subscription & Support Renewal
E0ELTLL	IBM Security Guardium Standard Activity Monitor for Databases Processor Value Unit (PVU) Annual SW Subscription & Support Renewal
D0TI2LL	IBM Security Guardium Standard Activity Monitor for z/OS Resource Value Unit SW Subscription & Support Reinstatement 12 Months
D0TI3LL	IBM Security Guardium Standard Activity Monitor for z/OS Resource Value Unit License + SW Subscription & Support 12 Months
D0TI4LL	IBM Security Guardium Standard Activity Monitor for z/OS Resource Value Unit for System z SW Subscription & Support Reinstatement 12 Months
D0TI5LL	IBM Security Guardium Standard Activity Monitor for z/OS Resource Value Unit for System z License + SW Subscription & Support 12 Months
E0ELLLL	IBM Security Guardium Standard Activity Monitor for z/OS Resource Value Unit Annual SW Subscription & Support Renewal
E0ELMLL	IBM Security Guardium Standard Activity Monitor for z/OS Resource Value Unit for System z Annual SW Subscription & Support Renewal
D1E01LL	IBM Security Guardium Standard Activity Monitor for Big Data Resource Value Unit (MVS^{TM}) SW Subscription & Support Reinstatement 12 Months
D1E09LL	IBM Security Guardium Standard Activity Monitor for Big Data Resource Value Unit (MVS) License + SW Subscription & Support 12 Months
D1FNJLL	IBM Security Guardium Standard Activity Monitor for Big Data Resource Value Unit Monthly License
E0KZXLL	IBM Security Guardium Standard Activity Monitor for Big Data Resource Value Unit (MVS) Annual SW Subscription & Support Renewal
D1E07LL	IBM Security Guardium Standard Activity Monitor for Data Warehouses for Linux on System z Resource Value Unit (TB) License + SW Subscription & Support 12 Months
D1E08LL	IBM Security Guardium Standard Activity Monitor for Data Warehouses for Linux on System z Resource Value Unit (TB) SW Subscription & Support Reinstatement 12 Months
D1E0ALL	IBM Security Guardium Standard Activity Monitor for Data Warehouses Resource Value Unit (TB) License + SW Subscription & Support 12 Months

D1E0BLL	IBM Security Guardium Standard Activity Monitor for Data Warehouses Resource Value Unit (TB) SW Subscription & Support Reinstatement 12 Months
D1FNTLL	IBM Security Guardium Standard Activity Monitor for Data Warehouses for Linux on System z Resource Value Unit Monthly License
D1FNULL	IBM Security Guardium Standard Activity Monitor for Data Warehouses Resource Value Unit Monthly License
E0L00LL	IBM Security Guardium Standard Activity Monitor for Data Warehouses for Linux on System z Resource Value Unit (TB) Annual SW Subscription & Support Renewal
E0L01LL	IBM Security Guardium Standard Activity Monitor for Data Warehouses Resource Value Unit (TB) Annual SW Subscription & Support Renewal
D0THULL	IBM Security Guardium Advanced Activity Monitor for Databases Processor Value Unit (PVU) SW Subscription & Support Reinstatement 12 Months
D0THVLL	IBM Security Guardium Advanced Activity Monitor for Databases Processor Value Unit (PVU) License + SW Subscription & Support 12 Months
D0THYLL	IBM Security Guardium Advanced Activity Monitor for Databases Processor Value Unit (PVU) for Linux on System z SW Subscription & Support Reinstatement 12 Months
D0THZLL	IBM Security Guardium Advanced Activity Monitor for Databases Processor Value Unit (PVU) for Linux on System z License + SW Subscription & Support 12 Months
D0TJ3LL	IBM Security Guardium Advanced Activity Monitor for Databases Processor Value Unit (PVU) for Linux on System z from Standard Activity Monitor for Databases PVU for Linux on System z Trade Up License + SW Subscription & Support 12 Months
D0TJ7LL	IBM Security Guardium Advanced Activity Monitor for Databases Processor Value Unit (PVU) from IBM Security Guardium Standard Activity Monitor for Databases Processor Value Unit (PVU) Trade Up License + SW Subscription & Support 12 Months
E0ELHLL	IBM Security Guardium Advanced Activity Monitor for Databases Processor Value Unit (PVU) Annual SW Subscription & Support Renewal
E0ELJLL	IBM Security Guardium Advanced Activity Monitor for Databases Processor Value Unit (PVU) for Linux on System z Annual SW Subscription & Support Renewal
D11N4LL	IBM Security Guardium Advanced Activity Monitor for z/OS Resource Value Unit License + SW Subscription & Support 12 Months
D11N5LL	IBM Security Guardium Advanced Activity Monitor for z/OS Resource Value Unit SW Subscription & Support Reinstatement 12 Months

D11N6LL	IBM Security Guardium Advanced Activity Monitor for z/OS Resource Value Unit from IBM Security Guardium Standard Activity Monitor for zOS Trade Up License + SW Subscription & Support 12 Months
D11N7LL	IBM Security Guardium Advanced Activity Monitor for z/OS for System z Resource Value Unit License + SW Subscription & Support 12 Months
D11N8LL	IBM Security Guardium Advanced Activity Monitor for z/OS for System z Resource Value Unit SW Subscription & Support Reinstatement 12 Months
D11WCLL	IBM Security Guardium Advanced Activity Monitor for z/OS for System z Resource Value Unit from IBM Security Guardium Standard Activity Monitor for z/OS for System z Trade Up License + SW Subscription & Support 12 Months
E0IGGLL	IBM Security Guardium Advanced Activity Monitor for z/OS Resource Value Unit Annual SW Subscription & Support Renewal
E0IGHLL	IBM Security Guardium Advanced Activity Monitor for z/OS for System z Resource Value Unit Annual SW Subscription & Support Renewal
D1E04LL	IBM Security Guardium Adanced Activity Monitor for Big Data Resource Value Unit (MVS) License + SW Subscription & Support 12 Months
D1E05LL	IBM Security Guardium Adanced Activity Monitor for Big Data Resource Value Unit (MVS) SW Subscription & Support Reinstatement 12 Months
D1E06LL	IBM Security Guardium Advanced Activity Monitor for Big DataTradeUp from Security Guardium Standard Activity Monitor for Big Data Resource Value Unit Trade Up License + SW Subscription & Support 12 Months
D1FNILL	IBM Security Guardium Adanced Activity Monitor for Big Data Resource Value Unit Monthly License
E0KZZLL	IBM Security Guardium Adanced Activity Monitor for Big Data Resource Value Unit (MVS) Annual SW Subscription & Support Renewal
D1E0LLL	IBM Security Guardium Advanced Activity Monitor for Data Warehouses Resource Value Unit (TB) for Linux on System z License + SW Subscription & Support 12 Months
D1E0MLL	IBM Security Guardium Advanced Activity Monitor for Data Warehouses Resource Value Unit (TB) for Linux on System z SW Subscription & Support Reinstatement 12 Months
D1E0NLL	IBM Security Guardium Advanced Activity Monitor for DWH for Linux on System z TradeUp from Security Guardium Standard Activity Monitor for DWH for Linux on System z Resource Value Unit (TB) Trade Up License + SW Subscription & Support 12 Months

D1E0PLL	IBM Security Guardium Advanced Activity Monitor for Data Warehouses Resource Value Unit (TB) License + SW Subscription & Support 12 Months
D1E0QLL	IBM Security Guardium Advanced Activity Monitor for Data Warehouses Resource Value Unit (TB) SW Subscription & Support Reinstatement 12 Months
D1E0RLL	IBM Security Guardium Advanced Activity Monitor for Data Warehouses TradeUp from Security Guardium Standard Activity Monitor for Data Warehouses Resource Value Unit Trade Up License + SW Subscription & Support 12 Months
D1FNRLL	IBM Security Guardium Advanced Activity Monitor for Data Warehouses Resource Value Unit (TB) for Linux on System z Monthly License
D1FNSLL	IBM Security Guardium Advanced Activity Monitor for Data Warehouses Resource Value Unit Monthly License
E0L06LL	IBM Security Guardium Advanced Activity Monitor for Data Warehouses Resource Value Unit (TB) for Linux on System z Annual SW Subscription & Support Renewal
E0L07LL	IBM Security Guardium Advanced Activity Monitor for Data Warehouses Resource Value Unit (TB) Annual SW Subscription & Support Renewal
D14UMLL	IBM Security Guardium Express Activity Monitor for Databases Processor Value Unit (PVU) License + SW Subscription & Support 12 Months
D14UNLL	IBM Security Guardium Express Activity Monitor for Databases Processor Value Unit (PVU) SW Subscription & Support Reinstatement 12 Months
D199YLL	IBM Security Guardium Express Activity Monitor for Databases Processor Value Unit (PVU) Monthly License
E0JIILL	IBM Security Guardium Express Activity Monitor for Databases Processor Value Unit (PVU) Annual SW Subscription & Support Renewal
D0TIPLL	IBM Security Guardium Central Management and Aggregation Pack Processor Value Unit (PVU) SW Subscription & Support Reinstatement 12 Months
D0TIQLL	IBM Security Guardium Central Management and Aggregation Pack Processor Value Unit (PVU) License + SW Subscription & Support 12 Months
D0TITLL	IBM Security Guardium Central Management and Aggregation Pack Processor Value Unit (PVU) for Linux on System z SW Subscription & Support Reinstatement 12 Months
D0TIULL	IBM Security Guardium Central Management and Aggregation Pack Processor Value Unit (PVU) for Linux on System z License + SW Subscription & Support 12 Months
D1FRWLL	IBM Security Guardium Central Management and Aggregation Pack

	Processor Value Unit (PVU) Monthly License
D1FRXLL	IBM Security Guardium Central Management and Aggregation Pack Processor Value Unit (PVU) for Linux on System z Monthly License
E0ELXLL	IBM Security Guardium Central Management and Aggregation Pack Processor Value Unit (PVU) Annual SW Subscription & Support Renewal
E0ELZLL	IBM Security Guardium Central Management and Aggregation Pack Processor Value Unit (PVU) for Linux on System z Annual SW Subscription & Support Renewal
D0THWLL	IBM Security Guardium Central Management and Aggregation Pack for z/OS Resource Value Unit SW Subscription & Support Reinstatement 12 Months
D0THXLL	IBM Security Guardium Central Management and Aggregation Pack for z/OS Resource Value Unit License + SW Subscription & Support 12 Months
D0TIILL	IBM Security Guardium Central Management and Aggregation Pack for z/OS Resource Value Unit for System z SW Subscription & Support Reinstatement 12 Months
D0TIJLL	IBM Security Guardium Central Management and Aggregation Pack for z/OS Resource Value Unit for System z License + SW Subscription & Support 12 Months
E0ELILL	IBM Security Guardium Central Management and Aggregation Pack for z/OS Resource Value Unit Annual SW Subscription & Support Renewal
E0ELULL	IBM Security Guardium Central Management and Aggregation Pack for z/OS Resource Value Unit for System z Annual SW Subscription & Support Renewal
D1E02LL	IBM Security Guardium Central Management and Aggregation Pack for Big Data Resource Value Unit (MVS) License + SW Subscription & Support 12 Months
D1E03LL	IBM Security Guardium Central Management and Aggregation Pack for Big Data Resource Value Unit (MVS) SW Subscription & Support Reinstatement 12 Months
D1FRZLL	IBM Security Guardium Central Management and Aggregation Pack for Big Data Resource Value Unit Monthly License
E0KZYLL	IBM Security Guardium Central Management and Aggregation Pack for Big Data Resource Value Unit (MVS) Annual SW Subscription & Support Renewal
D1E0SLL	IBM Security Guardium Central Management Aggregation Pack for Data Warehouses Resource Value Unit (TB) for Linux on System z License + SW Subscription & Support 12 Months
D1E0TLL	IBM Security Guardium Central Management Aggregation Pack for Data

	Warehouses Resource Value Unit (TB) for Linux on System z SW Subscription & Support Reinstatement 12 Months
D1E0ULL	IBM Security Guardium Central Management Aggregation Pack for Data Warehouses Resource Value Unit (TB) License + SW Subscription & Support 12 Months
D1E0VLL	IBM Security Guardium Central Management Aggregation Pack for Data Warehouses Resource Value Unit (TB) SW Subscription & Support Reinstatement 12 Months
E0L08LL	IBM Security Guardium Central Management Aggregation Pack for Data Warehouses Resource Value Unit (TB) for Linux on System z Annual SW Subscription & Support Renewal
E0L09LL	IBM Security Guardium Central Management Aggregation Pack for Data Warehouses Resource Value Unit (TB) Annual SW Subscription & Support Renewal
D1FNLLL	IBM Security Guardium Vulnerability Assessment for Databases Managed Virtual Server for z/OS for System z Monthly License
D1FNMLL	IBM Security Guardium Vulnerability Assessment For Databases Resource Value Unit (MVS) For Linux On System Z Monthly License
D1FNNLL	IBM Security Guardium Vulnerability Assessment For Databases Resource Value Unit (MVS) Monthly License
E0L03LL	IBM Security Guardium Vulnerability Assessment for Databases Resource Value Unit (MVS) for Linux on System z Annual SW Subscription & Support Renewal
E0L04LL	IBM Security Guardium Vulnerability Assessment for Databases Resource Value Unit (MVS) for z/OS for System z Annual SW Subscription & Support Renewal
E0L05LL	IBM Security Guardium Vulnerability Assessment for Databases Resource Value Unit (MVS) Annual SW Subscription & Support Renewal

Passport Advantage customer: Media pack entitlement details

Customers with active maintenance or subscription for the products listed are entitled to receive the corresponding media pack.

Media pack number	Media pack description
BB05WML	IBM Security Guardium Dynamic Data Masking for Applications Version 10.0 Multiplatform Multilingual Media Pack
BB056ML	IBM Security Guardium Standard Activity Monitor for Files Version 10.0 Multiplatform Multilingual Media Pack
BB057ML	IBM Security Guardium Advanced Activity Monitor for Files Version 10.0 Multiplatform Multilingual Media Pack
BB05QML	IBM Security Guardium Collector Software Appliance Version 10.0 Multiplatform Multilingual Media Pack
BB05RML	IBM Security Guardium Aggregator Software Appliance Version 10.0 Multiplatform Multilingual Media Pack

Media pack number	Media pack description
BB05SML	IBM Security Guardium Security Platform Software Appliance Version 10.0 Multiplatform Multilingual Media Pack
BB05TML	IBM Security Guardium Collector X2132 Appliance Version 10.0 Multiplatform Multilingual Media Pack
BB05UML	IBM Security Guardium Collector X2164 Appliance Version 10.0 Multiplatform Multilingual Media Pack
BB05VML	IBM Security Guardium Aggregator X2132 Appliance Version 10.0 Multiplatform Multilingual Media Pack
BB058ML	IBM Security Guardium Aggregator X2164 Appliance Version 10.0 Multiplatform Multilingual Media Pack
BB059ML	IBM Security Guardium Collector X3064 Appliance Version 10.0 Multiplatform Multilingual Media Pack
BB05AML	IBM Security Guardium Aggregator X3064 Appliance Version 10.0 Multiplatform Multilingual Media Pack
BB05BML	IBM Security Guardium Standard Activity Monitor for Databases Version 10.0 Multiplatform Multilingual Media Pack
BB05CML	IBM Security Guardium Standard Activity Monitor for z/OS Version 10.0 Multiplatform Multilingual Media Pack
BB05DML	IBM Security Guardium Standard Activity Monitor for Big Data Version 10.0 Multiplatform Multilingual Media Pack
BB05EML	IBM Security Guardium Standard Activity Monitor for Data Warehouses Version 10.0 Multiplatform Multilingual Media Pack
BB05FML	IBM Security Guardium Advanced Activity Monitor for Databases Version 10.0 Multiplatform Multilingual Media Pack
BB05GML	IBM Security Guardium Advanced Activity Monitor for z/OS Version 10.0 Multiplatform Multilingual Media Pack
BB05PML	IBM Security Guardium Advanced Activity Monitor for Big Data Version 10.0 Multiplatform Multilingual Media Pack
BB05HML	IBM Security Guardium Advanced Activity Monitor for Data Warehouses Version 10.0 Multiplatform Multilingual Media Pack
BB05IML	Security Guardium Express Activity Monitor for Databases Version 10.0 Multiplatform Multilingual Media Pack
BB05JML	Security Guardium Central Management and Aggregation Pack Version 10.0 Multiplatform Multilingual Media Pack
BB05KML	Security Guardium Central Management and Aggregation Pack for z/OS Version 10.0 Multiplatform Multilingual Media Pack
BB05LML	Security Guardium Central Management and Aggregation Pack for Big DataVersion 10.0 Multiplatform Multilingual Media Pack
BB05MML	Security Guardium Central Management and Aggregation Pack for Data Warehouses Version 10.0 Multiplatform Multilingual Media Pack
BB05NML	Security Guardium Vulnerability Assessment for Databases Version 10.0 Multiplatform Multilingual Media Pack

Charge metric

PID number	Part description	Charge metric
5725-G03	IBM Security Guardium Dynamic Data Masking for Applications	MVS™, UVU
5725-I11	IBM Security Guardium Collector Software Appliance	Install
5725-I11	IBM Security Guardium Aggregator Software Appliance	Install
5725-I11	IBM Security Guardium Security Platform Software Appliance	Install
5725-I11	IBM Security Guardium Collector X2132 Appliance	Appliance Install
5725-I11	IBM Security Guardium Collector X2164 Appliance	Appliance Install
5725-I11	IBM Security Guardium Aggregator X2132 Appliance	Appliance Install
5725-I11	IBM Security Guardium Aggregator X2164 Appliance	Appliance Install
5725-I11	IBM Security Guardium Collector X3064 Appliance	Appliance Install
5725-I11	IBM Security Guardium Aggregator X3064 Appliance	Appliance Install
5725-I12	IBM Security Guardium Standard Activity Monitor for Databases	PVU
5725-I12	IBM Security Guardium Advanced Activity Monitor for Databases	PVU
5725-112	IBM Security Guardium Standard Activity Monitor for z/OS	RVU
5725-I12	IBM Security Guardium Central Management and Aggregation Pack	PVU
5725-I12	IBM Security Guardium Central Management and Aggregation Pack for z/OS	RVU
5725-I12	IBM Security Guardium Advanced Activity Monitor for z/OS	RVU
5725-I12	IBM Security Guardium Express Activity Monitor for Databases	PVU
5725-II2	IBM Security Guardium Standard Activity Monitor for Big Data	RVU (Managed Virtual Server)
5725-II2	IBM Security Guardium Central Management and Aggregation Pack for Big Data	RVU (Managed Virtual Server)
5725-II2	IBM Security Guardium Advanced Activity Monitor for Big Data	RVU (Managed Virtual Server)
5725-II2	IBM Security Guardium Advanced Activity Monitor for Data Warehouses	RVU (Terabytes)
5725-II2	IBM Security Guardium Central Management and	RVU (Terabytes)

PID number	Part description	Charge metric
	Aggregation Pack for Data Warehouses	
5725-II2	IBM Security Guardium Vulnerability Assessment for Databases	RVU (Managed Virtual Server)
5725-II2	IBM Security Guardium Standard Activity Monitor for Data Warehouses	RVU (Terabytes)
5725-V56	IBM Security Guardium Standard Activity Monitor for Files	RVU (Terabytes)
5725-V56	IBM Security Guardium Advanced Activity Monitor for Files	RVU (Terabytes)

Metric definitions

Managed Virtual Server (MVS)

Managed Virtual Server is a unit of measure by which the program can be licensed. A *server* is a physical computer that is comprised of processing units, memory, and input/output capabilities and that execute requested procedures, commands, or applications for one or more users or client devices. Where racks, blade enclosures, or other similar equipment is being employed, each separable physical device (for example, a blade or a rack-mounted device) that has the required components is considered itself a separate server. A virtual server is either a virtual computer created by partitioning the resources available to a physical server or an unpartitioned physical server. The licensee must obtain Managed Virtual Server entitlements for each virtual server managed by the program.

User Value Unit (UVU)

UVU is a unit of measure by which the program can be licensed. UVU Proofs of Entitlement are based on the number and type of users for the given program. The licensee must obtain sufficient entitlements for the number of UVUs required for licensee's environment as specified in the program specific table. The UVU entitlements are specific to the program and type of user and may not be exchanged, interchanged, or aggregated with UVU entitlements of another program or type of user. Refer to the program-specific UVU table.

Install

Install is a unit of measure by which the program can be licensed. An *install* is an installed copy of the program on a physical or virtual disk made available to be executed on a computer. The licensee must obtain an entitlement for each install of the program.

Appliance Install

Appliance Install is a unit of measure by which the program can be licensed. An *Appliance Install* is an installed copy of the program that is included on a single unit of supporting hardware. Licensee must obtain an entitlement for each Appliance Install of the program.

Resource Value Unit (RVU)

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

Notes:

Some programs may require licenses for the resources available to and the resources being managed by the program. In that case, the following applies. In addition to the entitlements required for the resources used by the program directly, the 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, the licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.

Terabyte

Terabyte is a unit of measure by which some of these programs can be licensed. A terabyte is 2 to the 40th power bytes. The licensee must obtain an entitlement for each terabyte of storage available to the program.

Processor Value Unit (PVU)

PVU is a unit of measure by which the program can be licensed. The number of PVU entitlements required is based on the processor technology (defined within the PVU table by processor value, brand, type, and model number at the website below) and the number of processors made available to the program. IBM continues to define a processor, for the purpose of PVU-based licensing, to be each processor core on a chip. A dual-core processor chip, for example, has two processor cores. The PVU table can be found at

> http://www.ibm.com/software/lotus/passportadvantage/
> pvu_licensing_for_customers.html

Licensee can deploy the program using either full capacity licensing or virtualization capacity (sub-capacity) licensing according to the Passport Advantage Sub-Capacity Licensing Terms (refer to the web page below). If using full capacity licensing, licensee must obtain PVU entitlements sufficient to cover all activated processor cores in the physical hardware environment made available to or managed by the program, except for those servers from which the program has been permanently removed. If using virtualization capacity licensing, the licensee must obtain entitlements sufficient to cover all activated processor cores made available to or managed by the program, as defined according to the Virtualization Capacity License Counting Rules at

> http://www.ibm.com/software/lotus/passportadvantage/
> Counting_Software_licenses_using_sp ecific_virtualization_technologies.html

An activated processor core is a processor core that is available for use in a physical or virtual server, regardless of whether the capacity of the processor core can be or is limited through virtualization technologies, operating system commands, BIOS settings, or similar restrictions.

Notes:

- Some programs may require licenses for the program and what is being managed. In that case, the following applies. In addition to the entitlements required for the program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores 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 program directly, licensee must obtain PVU entitlements for this program sufficient to cover the processor cores managed by the program.
- A few programs on an exception basis may be licensed on a referenced basis. In that case, the following applies. Rather than obtaining entitlements for the activated processor cores available to the program, licensee must obtain PVU entitlements for this program sufficient to cover the environment made available

to the referenced program as if the program itself were executing everywhere the referenced program was executing, independent of the basis on which the referenced program is licensed.

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.

This product is only available via Passport Advantage.

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. Part number products only, offered outside of Passport Advantage, where applicable, are license only and do not include Software Maintenance.

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

Agreement for Acquisition of Software Maintenance

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. IBM includes one year of Software Subscription and Support (also referred to as Software Maintenance) with the initial license acquisition of each program acquired. The initial period of Software Subscription and Support can be extended by the purchase of a renewal option, if available. 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 number

PID number	Part description	LICR number
5725-G03	IBM Security Guardium Dynamic Data Masking for Applications	L-TESX-9VBTBW
5725-I11	IBM Security Guardium Collector Software Appliance	L-TESX-9VBTNU
5725-I11	IBM Security Guardium Aggregator Software Appliance	L-TESX-9VBTSL
5725-I11	IBM Security Guardium Security Platform Software Appliance	L-TESX-9VBTV8
5725-I11	IBM Security Guardium Collector X2132 Appliance	L-TESX-9VBTXL
5725-I11	IBM Security Guardium Collector X2164 Appliance	L-TESX-9VBTZR
5725-I11	IBM Security Guardium Aggregator X2132 Appliance	L-TESX-9VBU3N

PID number	Part description	LICR number
5725-I11	IBM Security Guardium Aggregator X2164 Appliance	L-TESX-9VBU5U
5725-I11	IBM Security Guardium Collector X3064 Appliance	L-TESX-9VBU7K
5725-I11	IBM Security Guardium Aggregator X3064 Appliance	L-TESX-9VBU9F
5725-I12	IBM Security Guardium Standard Activity Monitor for Databases	L-TESX-9VBUBB
5725-I12	IBM Security Guardium Advanced Activity Monitor for Databases	L-TESX-9VBUCR
5725-112	IBM Security Guardium Standard Activity Monitor for z/OS	L-TESX-9VBUED
5725-I12	IBM Security Guardium Central Management and Aggregation Pack	L-TESX-9VBUG6
5725-I12	IBM Security Guardium Central Management and Aggregation Pack for z/OS	L-TESX-9VBUJB
5725-I12	IBM Security Guardium Advanced Activity Monitor for z/OS	L-TESX-9VBUL8
5725-I12	IBM Security Guardium Express Activity Monitor for Databases	L-TESX-9UQUE8
5725-II2	IBM Security Guardium Standard Activity Monitor for Big Data	L-TESX-9VBUPB
5725-II2	IBM Security Guardium Central Management and Aggregation Pack for Big Data	L-TESX-9VBUQV
5725-II2	IBM Security Guardium Advanced Activity Monitor for Big Data	L-TESX-9VBUSV
5725-II2	IBM Security Guardium Advanced Activity Monitor for Data Warehouses	L-TESX-9VBUUU
5725-II2	IBM Security Guardium Central Management and Aggregation Pack for Data Warehouses	L-TESX-9VBUWD
5725-II2	IBM Security Guardium Vulnerability Assessment for Databases	L-TESX-9VBUXU
5725-II2	IBM Security Guardium Standard Activity Monitor for Data Warehouses	L-TESX-9VBUZB
5725-V56	IBM Security Guardium Standard Activity Monitor for Files	L-TESX-9UCTKH
5725-V56	IBM Security Guardium Advanced Activity Monitor for Files	L-TESX-9UFMRC

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 technical support

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

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

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 (1) for programs acquired under the IBM International Passport Advantage offering, this term applies only to your first acquisition of the program and (2) 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)

Yes. Contact your IBM representative.

Passport Advantage applies

Yes, and through the Passport Advantage website at

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

Software Subscription and Support applies

Yes. Software Subscription and Support (also referred to as Software Maintenance) is included with licenses purchased through Passport Advantage and Passport Advantage Express. Product upgrades and Technical Support are provided by

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the Software Subscription and Support 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 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, 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 the applicable agreements.

For additional information about the International Passport Advantage Agreement and the IBM International Passport Advantage Express Agreement, visit the Passport Advantage website at

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

System i Software Maintenance applies

No

Variable charges apply

No

Educational allowance available

Education allowance does not apply. Education software allowance does not apply. Special education prices are available for qualified customers through Passport Advantage.

Statement of good security practices

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

IBM Electronic Services

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

Now integrated into the base operating system of AIX[(R)] V5.3, AIX V6.1, and AIX V7.1, Electronic Service Agent is designed to automatically and electronically report system failures and utilization issues to IBM, which can result in faster problem resolution and increased availability. System configuration and inventory information collected by the Electronic Service Agent tool also can be viewed on the secure Electronic Support web portal, and used to improve problem determination and resolution by you and the IBM support team. To access the tool main menu, simply type **smitty esa_main** , and select Configure Electronic Service Agent. In addition, ESA now includes a powerful web user interface, giving the administrator easy access to status, tool settings, problem information, and filters. For more information and documentation on how to configure and use Electronic Service Agent, refer to

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

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

Benefits

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

Security: The Electronic Service Agent tool is designed to be secure in monitoring, reporting, and storing the data at IBM. The Electronic Service Agent tool is designed to securely transmit either via the Internet (HTTPS or VPN) or modem to provide customers a single point of exit from their site. Communication is one way. Activating Electronic Service Agent does not enable IBM to call into a customer's system.

For additional information, please refer to IBM Electronic Service Agent

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

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

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

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

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

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

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

Prices

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