IBM Multi-Cloud Data Encryption V2.1 enhances its layered encryption capabilities with fine-grained access policy control to protect data in any cloud environment

IBM United States Software Announcement 217-525
October 10, 2017

ENUS217-525.PDF

Table of contents
- Overview
- Key prerequisites
- Planned availability date
- Program number
- Publications
- Technical information
- Ordering information
- Terms and conditions
- Prices
- Order now

At a glance

IBM® Multi-Cloud Data Encryption V2.1:

- Helps protect against unauthorized data access, including access by system administrators, through the use of client-defined access policies that encrypt data at either the file or block layer
- Features fine-grained access policies that can be calibrated to allow data access to a specific user, for data in a specific folder, and only when using a specific process
- Includes flexible agents that can encrypt by file, folder, or volume
- Protects data in any cloud, on-premises, or multiple clouds, while maintaining centralized control of encryption keys at a location of your choice
- Encrypts existing files and folders in place
- Enables you to move cipher data between servers in different clouds that are running Multi-Cloud Data Encryption, without decrypting and re-encrypting the
Overview

Multi-Cloud Data Encryption provides you with a file, folder, and volume encryption solution that helps to protect your data in any cloud environment while keeping local control over the access policies. As a security-rich, software-based, agent-controller solution, agents can be deployed on operating systems of server nodes in any cloud, coordinated, and managed through an external policy manager and controller that enforces access control.

With V2.1, you now can integrate Multi-Cloud Data Encryption's central management server with the Gemalto SafeNet Luna HSMs via PKCS#11 for hardware-based security of cryptographic keys.

Fine-grain access policies are offered with V2.1 to allow data access to a specific user, for data in a specific folder, and only when using a specific process thus blocking sudo escalation for unauthorized access.

Multi-Cloud Data Encryption is a security-rich, software solution focused on addressing the key areas needed to optimize data privacy:

- Role-based (user, group, or process) data access policies
- Data-at-rest encryption
• Encryption key management
• Monitoring unauthorized or unusual access attempts

Using a central management console, encryption agents can be deployed onto operating systems to protect their data. The central console can deploy and manage agents in any environment, giving a single solution across one or multiple cloud providers. Data access is managed by a policy manager that is part of the central console and it controls how each agent controls and enforces access to data.

Multi-Cloud Data Encryption features built-in key management. It also offers standards-compliant integration with leading HSMs, as well as with KMIP-based software key managers such as IBM Security Key Lifecycle Manager. If an external key manager option is chosen, it manages the policy encryption keys generated within the Management Console, providing for an optional additional layer of security and control. In either case, the central manager logs events using standard formats that can interface with SIEM systems, such as IBM QRadar®, for near-real-time data access monitoring and alerts.

Key prerequisites

• Internet connection
• Supported browser

Planned availability date

November 10, 2017
See the Availability of national languages section for national language availability.

Section 508 of the US Rehabilitation Act

IBM makes no representation about the Section 508 status of the third-party electronic and information technology product in this offering. Contact the vendor for specific, current information about the Section 508 status of this product.

Availability of national languages

Translation information, if available, can be found at the Translation Reports website.

Program number

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<thead>
<tr>
<th>Program number</th>
<th>VRM</th>
<th>Program name</th>
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<tbody>
<tr>
<td>5737-C67</td>
<td>2.1</td>
<td>IBM Multi-Cloud Data Encryption</td>
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Offering Information

Product information is available on the IBM Offering Information website.

More information is also available on the Passport Advantage® and Passport Advantage Express® website.
No publications are shipped with these programs.

Documentation is published in IBM Knowledge Center.
Software requirements

For information about software and hardware requirements for IBM Multi-Cloud Data Encryption, see the downloadable product documentation.

Such information is provided subject to the following terms. 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, misappropriated, or misused, or can result in damage to or misuse of your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service, or security measure can be completely effective in preventing improper use or access. IBM systems, products, and services are designed to be part of a lawful, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

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You can also access the IBM Support Portal page and the online Service requests and PMRs tool for more support.

**Planning information**
Packaging

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This program, when downloaded from a website, contains the applicable IBM license agreement and License Information, if appropriate, which 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.

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

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More information can be found on the IBM Channel Value Rewards website.

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Product Group: Guardium®

Product Identifier Description: IBM Multi-Cloud Data Encryption (5737-C67)

Product Category: Guardium

Passport Advantage

IBM Multi-Cloud Data Encryption (5737-C67)

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<th>Program name</th>
<th>Charge metric</th>
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<tr>
<td>5737-C67</td>
<td>IBM Multi-Cloud Data Encryption</td>
<td>RVU (Managed Virtual Server)</td>
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**Resource Value Unit (RVU)**

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

**Notes:**

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

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**License Information number**

<table>
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<tr>
<th>Program number</th>
<th>Description</th>
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<tr>
<td>5737-C67</td>
<td>IBM Multi-Cloud Data Encryption for Files and Databases</td>
<td>L-TESX-AG8UAR</td>
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<td>5737-C67</td>
<td>IBM Multi-Cloud Data Encryption for Data Warehouses</td>
<td>L-TESX-AG8UH5</td>
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<tr>
<td>5737-C67</td>
<td>IBM Multi-Cloud Data Encryption for Big Data</td>
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The program's License Information will be available for review on the IBM Software License Agreement website.

**Limited warranty applies**

Yes

**Limited warranty**

IBM warrants that when the program is used in the specified operating environment, it will conform to its specifications. The warranty applies only to the unmodified portion of the program. IBM does not warrant uninterrupted or error-free operation of the program or that IBM will correct all program defects. You are responsible for the results obtained from the use of the program.

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IBM Multi-Cloud Data Encryption V2.1 enhances its layered encryption ...ained access policy control to protect data in any cloud environment charge. For further information, see the IBM Software 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 three 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 (by 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 (Software Maintenance) also provides you with access to updates (modifications or fixes), releases, and versions of the program. You will be notified, through an 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.

For additional information about the IBM Software Support Lifecycle Policy, see the IBM Software Support Lifecycle Policy website.

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.

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**Volume orders (IVO)**

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**Software Subscription and Support applies**

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**Variable charges apply**

No

**Educational allowance available**

Not applicable.

**Statement of good security practices**

IT system security involves protecting systems and information through intrusion 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 regulatory compliant, comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products, or services to be most effective.

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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 human intervention is not required to report errors.

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For additional information, go to the IBM Electronic Service Agent website.

**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.

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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 IBMid. Premium Search combines the function of search and the value of Electronic Service Agent information, providing
IBM Multi-Cloud Data Encryption V2.1 enhances its layered encryption architecture and has added access policy control to protect data in any cloud environment.

For more information about how to utilize the power of IBM Electronic Services, contact your IBM Systems Services Representative, or go to the IBM Electronic Support website.

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