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## 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](#)

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### 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

data

- Includes RESTful APIs that give you the capability to automate, schedule, and scale data protection across the enterprise
- Optionally integrates with IBM Security Key Lifecycle Manager through Key Management Interoperability Protocol (KMIP) or with a leading Hardware Security Module (HSM), such as Gemalto SafeNet Luna used by IBM Cloud, for an additional layer of security and control

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## Overview

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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.

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## Key prerequisites

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- Internet connection
- Supported browser

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## Planned availability date

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November 10, 2017

See the [Availability of national languages](#) section for national language availability.

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## Section 508 of the US Rehabilitation Act

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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.

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## Availability of national languages

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Translation information, if available, can be found at the [Translation Reports](#) website.

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## Program number

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Program number	VRM	Program name
5737-C67	2.1	IBM Multi-Cloud Data Encryption

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## Offering Information

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Product information is available on the [IBM Offering Information](#) website.

More information is also available on the [Passport Advantage®](#) and [Passport Advantage Express®](#) website.

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## Publications

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No publications are shipped with these programs.

Documentation is published in [IBM Knowledge Center](#).

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## Services

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## Technical information

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### *Specified operating environment*

## 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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## *Planning information*

## Packaging

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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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Part description	Part number
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IBM Multi-Cloud Data Encryption for Files and Databases Resource Value Unit (MVS™) License + SW Subscription & Support 12 Months	D1RUBLL
IBM Multi-Cloud Data Encryption for Files and Databases Resource Value Unit (MVS) SW Subscription & Support Reinstatement 12 Months	D1RUCLL
IBM Multi-Cloud Data Encryption for Files and Databases Resource Value Unit (MVS) Monthly License	D1RUDLL
IBM Multi-Cloud Data Encryption for Files and Databases Resource Value Unit (MVS) Annual SW Subscription & Support Renewal 12 Months	E0NCWLL
IBM Multi-Cloud Data Encryption for Data Warehouses Resource Value Unit (MVS) License + SW Subscription & Support 12 Months	D1RUJLL
IBM Multi-Cloud Data Encryption for Data Warehouses Resource Value Unit (MVS) SW Subscription & Support Reinstatement 12 Months	D1RUFLL
IBM Multi-Cloud Data Encryption for Data Warehouses Resource Value Unit (MVS) Monthly License	D1RUGLL
IBM Multi-Cloud Data Encryption for Data Warehouses Resource Value Unit (MVS) Annual SW Subscription & Support Renewal 12 Months	E0NCXLL
IBM Multi-Cloud Data Encryption for Big Data Resource Value Unit (MVS) License + SW Subscription & Support 12 Months	D1RUHLL
IBM Multi-Cloud Data Encryption for Big Data Resource Value Unit (MVS) Annual SW Subscription & Support Renewal 12 Months	D1RUJLL
IBM Multi-Cloud Data Encryption for Big Data Resource Value Unit (MVS) Monthly License	D1RUJLL
IBM Multi-Cloud Data Encryption for Big Data Resource Value Unit (MVS) Annual SW Subscription & Support Renewal 12 Months	E0NCYLL

### Charge metric

PID number	Program name	Charge metric
5737-C67	IBM Multi-Cloud Data Encryption	RVU (Managed Virtual Server)

### 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.

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- Some programs may require licenses for the resources available to **and** the

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- Some programs may be licensed on a managed basis **only**. In that case, the following applies. Instead of the entitlements required for the resources used by the program directly, licensee must obtain entitlements for this program sufficient to cover the resources managed by the program.

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This program has 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***

<b>Program number</b>	<b>Description</b>	<b>License document number</b>
5737-C67	IBM Multi-Cloud Data Encryption for Files and Databases	L-TESX-AG8UAR
5737-C67	IBM Multi-Cloud Data Encryption for Data Warehouses	L-TESX-AG8UH5
5737-C67	IBM Multi-Cloud Data Encryption for Big Data	L-TESX-AG8UK5

The program's License Information will be available for review on the [IBM Software License Agreement](#) website.

### ***Limited warranty applies***

Yes

### ***Limited warranty***

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***Volume orders (IVO)***

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***Variable charges apply***

No

***Educational allowance available***

Not applicable.

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