

IBM Fibre Channel Endpoint Security for IBM z15 and LinuxONE III

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At a glance

As data is being moved within and across data centers, authentication of the identities exchanging data and transparent encryption of the data in flight are required to strengthen security of the data. IBM[®] Fibre Channel Endpoint Security is a new end-to-end solution that is designed to provide a means to help ensure the integrity and confidentiality of all data flowing on Fibre Channel links between authorized server and storage devices, creating a trusted storage network that encrypts data in flight.

Key requirements

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

Planned availability date

February 27, 2020

Description

IBM Fibre Channel Endpoint Security is designed to provide a means to help ensure the integrity and confidentiality of all data flowing on Fibre Channel links within and across data centers between trusted entities. Feature code 1146, Endpoint Security Enablement, along with CPACF enablement (#3863) and FICON[®] Express16SA (#0436 or #0437), turns on the Fibre Channel Endpoint Security panels on the Hardware Management Console so setup can be done.

The IBM z15 and LinuxONE III Hardware Management Console and Support Element supports Fibre Channel Endpoint Security (Authentication and Encryption of Data in Flight). HMC 2.15.0 and IBM z15 or LinuxONE III will provide the ability to have Fibre Channel Endpoint Security controls. When the Fibre Channel connection endpoints use the FICON Express[®] 16S+ adapters to the IBM DS8900F storage, authentication of the endpoints is enabled. When the connection endpoints on the z15 or LinuxONE III use the FICON Express SA adapters, authentication and encryption of data in flight between the CPC and the IBM DS8900F storage is enabled. HMC 2.15.0 will provide the configuration and secure connections to external key servers that are utilized for this Fibre Channel Endpoint Security.

Product positioning

With IBM Fibre Channel Endpoint Security on the FICON^(R) and FCP channels, controls can be enabled so that enterprise data is exchanged only between authenticated (trusted) servers and storage controllers. This solution can also protect the integrity and confidentiality of the data by encrypting the data before it leaves one endpoint and keeping it protected until it reaches the receiving endpoint. The solution works exclusively between the IBM z15 or LinuxONE III and the new DS8900F storage controllers.

Reference information

For more information about IBM z15, announced on September 12, 2019, see Hardware Announcement [JG19-0039](#), dated September 12, 2019.

For more information about IBM LinuxONE III, announced on September 12, 2019, see Hardware Announcement [JG19-0017](#), dated September 12, 2019.

For more information about new-generation DS8000^(R) models, announced on September 12, 2019, see Hardware Announcement [JG19-0079](#), dated September 12, 2019.

For more information about IBM Z^(R) Data Privacy Passports V1.0 beta program, announced on September 12, 2019, see to Software Announcement [JP19-0548](#), dated September 12, 2019.

Product number

Description	Machine Type	Model	Feature Number
IBM z15	8561	T01	
		LT1	
Endpoint Security Enablement			1146

Publications

No publications are shipped with the announced product.

Publications for IBM Z can be obtained at the Resource Link^(R) website. Using the instructions on the Resource Link panels, obtain a user ID and password. Resource Link has been designed for easy access and navigation.

To access the IBM Publications Center Portal, go to the [IBM Publications Center](#) website.

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, which can currently be downloaded.

National language support

Not applicable.

Services

IBM Systems Lab Services

IBM Systems Lab Services offers a wide array of services available for your enterprise. It brings expertise on the latest technologies from the IBM development community and can help with your most difficult technical challenges.

IBM Systems Lab Services exists to help you successfully implement emerging technologies so as to accelerate your return on investment and improve your satisfaction with your IBM systems and solutions. Services examples include initial implementation, integration, migration, and skills transfer on IBM systems solution capabilities and recommended practices. IBM Systems Lab Services is one of the service organizations of IBM's world-renowned IBM Systems Group development labs.

For details on available services, contact your IBM representative or go to the [Lab Services](#) website.

Global Technology Services

IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an on-demand business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or go to the [IBM Global Technology Services^{\(R\)}](#) website.

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or go to the [Resiliency Services](#) website.

Details on education offerings related to specific products can be found on the [IBM authorized training](#) website.

Technical information

Specified operating environment

Hardware requirements

The hardware requirements for the IBM Z servers, features, and functions are the ones announced for IBM z15 and IBM LinuxONE III on September 12, 2019.

HMC (V2.15.0) plus MCLs and the Support Element (V2.15.0) became available on September 23, 2019. You should review the 8561DEVICE PSP bucket for minimum Machine Change Levels (MCLs) and software PTF levels before IPLing operating systems.

The new functions available on the Hardware Management Console (HMC) version 2.15.0, as described, apply exclusively to IBM z15 and LinuxONE III. However, the HMC version 2.15.0 will also support the systems listed in the table below.

Machine Family	Machine Type	Firmware Driver	SE Version
z14 and Emperor II	3906	36	2.14.1
z14 and Emperor II	3906	32	2.14.0

Machine Family	Machine Type	Firmware Driver	SE Version
z14 ZR1 and Rockhopper II	3907	36	2.14.1
z14 ZR1 and Rockhopper II	3907	32	2.14.0
z13 ^(R) and Emperor	2964	27	2.13.1
z13s ^(R) and Rockhopper	2965	27	2.13.1

Software requirements

Software requirements for IBM Fibre Channel Endpoint Security are not to enable the function but for monitoring and reporting purposes only.

SAN hardware and software requirements and prerequisites are required for support of IBM Fibre Channel Endpoint Security. SAN environments using FCIP or other extension optimization features may have additional restrictions. Any restrictions will be outlined in the qualification letters. To help ensure that the SAN products planned to be implemented in an installation are qualified, registered users should visit the IBM Resource Link library page for current information about IBM Z qualified switch products and restrictions of use.

IBM Fibre Channel Endpoint Security requires at a minimum:

- z/OS^(R) V2.4 with PTFs.
- z/OS V2.3 with PTFs.
- z/OS V2.2 with PTFs.
- z/VM^(R) V7.1 with PTFs.
- z/VM V6.4 with PTFs.
- Linux^(R) on IBM Z-IBM is working with its Linux distribution partners to provide support in future distribution releases.
 - Note: For minimum required and recommended distribution levels for IBM z15 and LinuxONE III, see the IBM Z website.

Planning information

Client responsibilities

Information on customer responsibilities for site preparation can be found in the [Library](#) section of Resource Link.

Cable orders

Not applicable.

Security, auditability, and control

The IBM z15 and LinuxONE III use the security and auditability features and functions of host hardware, host software, and application software.

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

IBM Systems Lab Services

For details on available services, contact your IBM representative or go to the [Lab Services](#) website.

IBM Electronic Services

IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single internet entry point that replaces the multiple entry points traditionally used to access IBM internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, go to the [IBM Electronic Service Agent](#) website.

Terms and conditions

Client setup

No.

Machine code

Same license terms and conditions as base machine.

Optional features warranty period

Optional feature - One year.

Prices

For all local charges, contact your local IBM representative or IBM Business Partner.

Trademarks

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