IBM z15 and IBM LinuxONE III deliver new feature numbers

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Overview

The IBM[(R)] zSystems platform continues to expand its security capabilities that businesses require as they digitally transform their enterprises.

Important upgrade information: TKE 10.0 level of LIC

The main purpose of TKE 10.0 is to provide support for managing Crypto Express 8S (CEX8S), which is available only on the IBM z16[TM]. Crypto Express 8S is not available on IBM z15[TM] or LinuxONE III.

Clients on an IBM zSystems server that does not support Crypto Express 8S may still want to take advantage of moving to TKE 10.0 to prepare for a future processor or pick up new TKE features that are not specific to the Crypto Express 8S.

You can upgrade from the Trusted Key Entry (TKE) 9.x level of the Licensed Internal Code (LIC) to TKE 10.0 with the purchase of a 4770 Crypto Adapter for the TKE. However, you must update your workstation BIOS prior to the upgrade. To do that, you *must* install TKE 9.2 with the latest patches prior to installing the TKE 10.0 firmware.

The TKE 10.0 level of LIC is required if you want to manage the CEX8S using the TKE. In addition, TKE 10.0 uses quantum-safe cryptography[i] when the TKE authenticates CEX8S, derives Transport Keys between the TKE's HSM and the target CEX8S, and during the on-demand HSM dual validation check.

- TKE 10.0 has a domain group limitation. All the HSMs in a TKE domain group must all contain quantum-safe cryptography support (that is, only include CEX8S), or all the HSMs must not contain quantum-safe cryptography support (that is, the HSMs can't include any CEX8S).
- TKE 10.0 now supports one-time use MFA authentication on an open host.
- TKE 10.0 contains Configuration Migration Tasks support to enable you to collect and apply data to and from CEX8S and collect data from a pre-CEX8S HSM and apply it to CEX8S HSMs.
- TKE 10.0 supports a new default wrapping method for the CEX8S HSMs.
- TKE 10.0 added support for a new AES DUKPT key attribute when using TKE to create AES DKYGENKY parts.

TKE 10.0 added support for the EP11 Outbound Authentication (OA) Signature Policy. The EP11 firmware on a CEX8S HSM enables users to configure what OA signatures are returned on responses from the HSM. The TKE OA Signature Policy controls what configuration options you may select when managing the settings from the TKE.

Planned availability date

July 26, 2022

Availability within a country is subject to local legal requirements.

Product number

Description	Machine type	Model	Feature number
IBM z15	8561	T01	
IBM z15 Model T02	8562	T02	
4770 Crypto Adapter			0851

Description	Machine type	Model	Feature number
IBM LinuxONE III	8561	LT1	
IBM LinuxONE III	8562	LT2	
4770 Crypto Adapter			0851
TKE Rack Mount			0057
TKE			0058
TKE Tower			0144
TKE Rack			0145
TKE Rack			0233
TKE Tower			0234
TKE 10.0 LIC			0882

Feature conversions

From		To		Description
Model type	Feature number	Model type	Feature number	
8561	0085	8561	0233	TKE Rack
8561	0086	8561	0234	TKE Tower
8561	0087	8561	0145	TKE Rack
8561	0088	8561	0144	TKE Tower
8562	0085	8562	0233	TKE Rack
8562	0086	8562	0234	TKE Tower
8562	0087	8562	0145	TKE Rack
8562	0088	8562	0144	TKE Tower

Publications

No publications are shipped

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For more information, contact Security Expert Labs at sel@us.ibm.com.

For additional information, see the IBM Security Expert Labs website.

IBM support

For installation and technical support information, see the IBM Support Portal.

Additional support

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Technical information

Planning information

Cable orders
Not applicable

Security, auditability, and control

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

Prices

Description	Machine type	Model	Feature Number	Price	**	EWFe	MMMC Indicator	INIT/ MES
IBM z15	8561	T01			**		X	
IBM z15	8562	T02			**		X	
4770 Crypto Adapter			0851		**			MES

Description	Machine type	Model	Feature Number	Price	**	EWFe	MMMC Indicator	INIT/ MES
LinuxONE III	8561	LT1			**		X	
LinuxONE III	8562	LT2			**		X	
4770 Crypto Adapter			0851		**			MES
TKE Rack Mount			0057		**			Both
TKE			0058		**			Both
TKE Tower			0144		**			MES
TKE Rack			0145		**			MES
TKE Rack			0233		**			MES
TKE Tower			0234		**			MES
TKE 10.0 LIC			0882		**			Both

** If field installed on a purchased machine, parts removed or replaced become the property of IBM and must be returned.

Regional availability

American Samoa, Guam, Marshall Islands, Federated States of Micronesia, Northern Mariana Islands, Palau, Puerto Rico, United States, and US Virgin Islands

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