Wave 2 security features

ThinkEdge security 2.0, LXCE UpdateXpress

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ThinkEdge security 2.0 overview

ThinkEdge security 2.0 introduces a new method for activation.
• An XCC user with administrator privileges can activate the server in lockdown without ThinkShield Portal.

ThinkEdge security 2.0 decouples the security pack from individual security features.
• All ThinkEdge servers will be shipped with SED disks.
• SED encryption and security sensors are configurable in XCC.
• If the security sensors are enabled, the system will lock down in the event of tamper detection.

There is no change in portal activation, as it is still activated by ThinkShield Portal.

Users can promote the system from local activation to portal activation with LXCE UpdateXpress, but this process is irreversible.

There is an option to ship the system with either local activation or portal activation.

Note: The Security Pack 2.0 portal activation mode will be released in December 2023. System Lockdown Mode in XCC is currently available. Refer to the SE455 V3 user guide on Lenovo Docs to understand the procedure used to activate or unlock the system.

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ThinkEdge security 2.0 – XCC
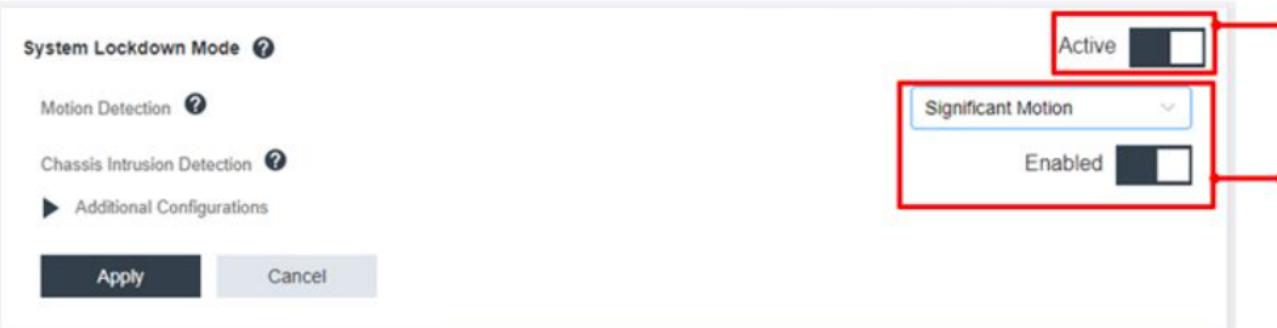
If system lockdown control is managed by XCC, users can activate the server by toggling this option. No interaction is required with ThinkShield Portal.

When security sensors are enabled, the ThinkEdge server will lock down in the event of tamper detection.

Enabling SED encryption is an irreversible action. The user cannot disable SED encryption after it is enabled.
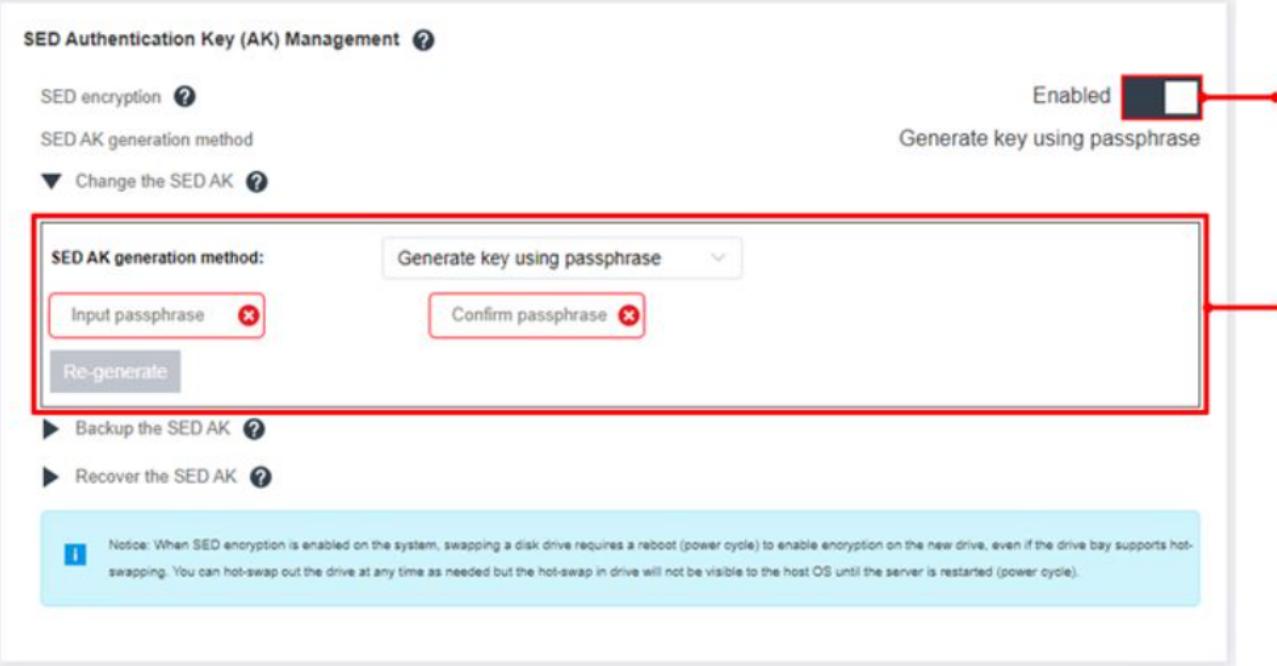
Users can select either passphrase or random generation as the SED AK generation method.

LXCE UpdateXpress – system lockdown control

With ThinkEdge servers, LXCE UpdateXpress can be used to promote the system lockdown control from **XClarity Controller Managed** to **ThinkShield Key Vault Portal Managed**.

This promotion is irreversible, and users will not be able to demote the system lockdown control in the future.

LXCE will communicate with the portal to update the system lockdown control mode.
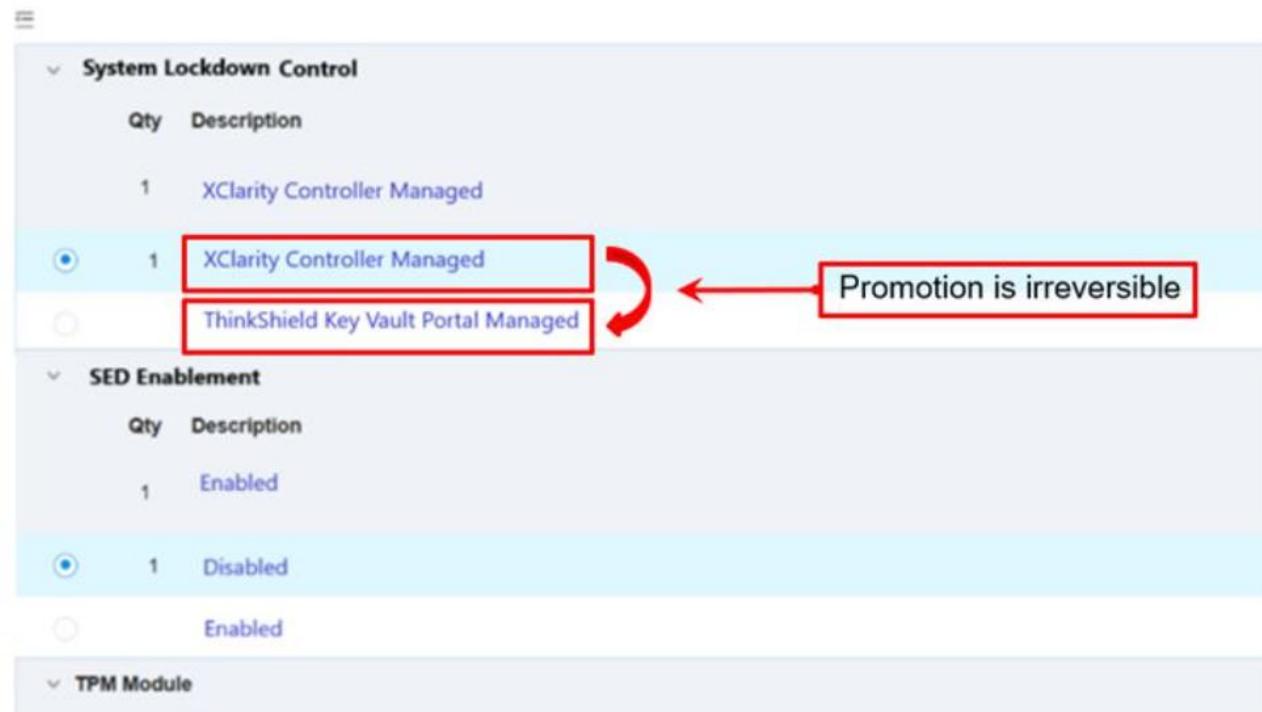
LXCE UpdateXpress – server security features

LXCE UpdateXpress can be used to perform the following tasks:
- Promote system lockdown controls for a ThinkEdge server from XCC-managed to ThinkShield Portal-managed
- Claim ThinkEdge servers in ThinkShield Portal
- Server activation
- Configure security sensors
- Manage SED encryption and AK

Field service action – system board replacement

The technician is required to update the public key after a system board replacement.

Refer to the following sections in course [ES71911C Servicing the ThinkSystem SE350 edge server](#):
- Updating the device key
- System board replacement flow

Refer to the following Lenovo Docs documents for system board replacement procedures:
- [SE350 V2 procedure for replacing the system board](#)
- [SE360 V2 procedure for replacing the system board](#)

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