Hardware replacement tips

Part replacement highlights

Lenovo

Replacing a firmware and RoT security module

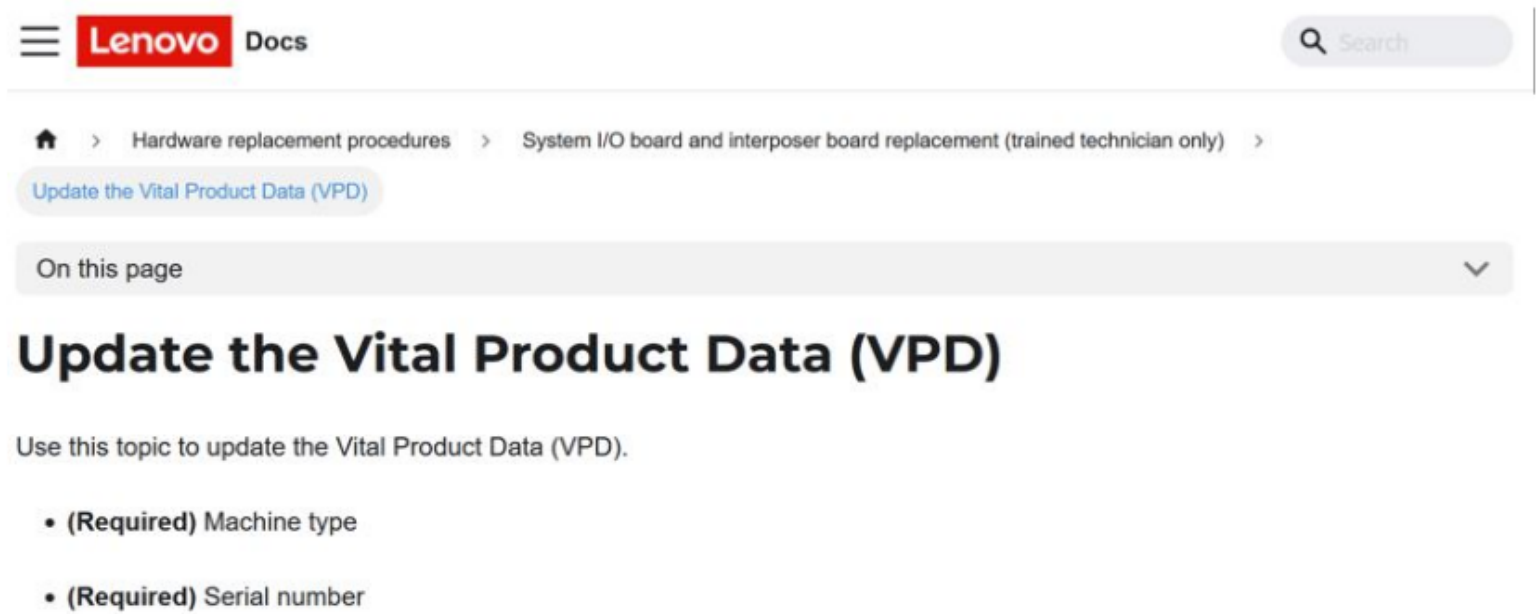
After replacing a firmware and RoT security module (RoT module), servicers must update the UEFI and LXPM firmware to the latest supported version before starting the system. If this does not happen, the system will not be able to recognize the correct firmware and will not start normally. As a result, the user will not be able to access the system OS.
Use one of the following methods to update the UEFI and LXPM firmware on the system after replacing the RoT module:

- OneCLI commands
- A USB boot kit with UEFI firmware and LXPM firmware packages
  - For more information on how to create a USB boot kit, refer to the following GLOSSE article: How to create USB boot kit with OneCLI for RoT replacement in the field

For the complete procedures, refer to the following GLOSSE tip page:
How to do RoT Module FW update on ThinkSystem V3 machines
For more information about RoT module, refer to the following course: ES52374 – ThinkSystem tools for the ThinkSystem V3 platform

Updating the VPD

After replacing After replacing an interposer board, service personnel must update the VPD. The SR950 V3 VPD update procedure is the same as that used with other Intel-based ThinkSystem models (using the `onecli config set` OneCLI command).
Servicers can also use the XCC tool (for servicers only – not available for customers) to update the VPD on a SR950 V3 server.
For more information, refer to the *LXCE OneCLI common task* section of course ES51757B Introducing ThinkSystem tools and ES52374 – ThinkSystem tools for the ThinkSystem V3 platform, or the *Update the Vital Product Data (VPD)* section of the *ThinkSystem SR950 V3 User Guide* on Lenovo Docs.



System board replacement actions

A summary of field service actions

Board (BD)	Code/Configuration	Action
Interposer board	VPD	Update the VPD after a board replacement
System BD (Processor BD)	FPGA	No action: XCC will automatically check the FPGA on reboot
I/O board	No configuration or code on board	If an SD card is installed, move it to the new board
Firmware RoT module	UEFI/XCC firmware	Board replacement requires flashing of XCC and UEFI
Firmware RoT module	UEFI/XCC configuration	Board replacement requires an XCC and UEFI configuration update – use the customer's backup or the add/change option in OneCLI scripts or XCC and F1 settings

Summary

This course enabled you to:

- Describe the features and specifications of the ThinkSystem SR950 V3
- Identify the components of the SR950 V3
- Describe the configurations of SR950 V3
- Describe the SR950 V3 management tools
- Describe the specific problem determination steps and explain how to troubleshoot issues with the SR950 V3