

LXPM5 on ThinkSystem V4 servers

New features and enhancements

Lenovo

LXPM5 on ThinkSystem V4 servers

LXPM5 supports the same features and functions on the ThinkSystem V4 platform as LXPM4 did on the V3 platform. From a service perspective, the only difference is a greater number of supported servers and hardware components. The LXPM5 screen captures on the following slides show the tool's initial launch and key features.

LXPM5 – Initial launch

ThinkSystem SR630 V4

System Events ✖ 11 ▲ 0

Serial Number 0987654321

Machine Type 7DG8

BMC IP 10.245.39.120

UEFI Version 0.20 IHE103L (07/19/2024)

BMC Version 0.34 IHX403H (07/22/2024)

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ThinkSystem

UEFI:DXE INIT

576 GB memory detected
Independent mode enabled, usable capacity 576 GB
F1 triggered remotely, preparing to boot into
System Setup...
TPM_POLICY is not locked

Undefined TPM_POLICY found

2 processor(s) detected, 128 cores enabled
Intel(R) Xeon(R) 6710E

F1: System Setup

F10: Network Boot

F2: Diagnostic

F12: One Time Boot Device

LXPM5 – System Summary

Provisioning Manager

System Summary

RAID Setup

OS Installation

Firmware Update

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Cloning

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ThinkSystem SR630 V4,Processor board,BH5,1U,Renasas
MTM: 7DG8CTO2WW SN: 0987654321

System Summary

Product Name
ThinkSystem SR630 V4,Processor board,BH5,1U,Renasas

UEFI Version
0.20 IHE103L

BMC Version
0.35 IHW403I

LXPM Version
5.00 DFL103J

Linux Driver Package
5.00 DFL201E

Windows Driver Package
5.00 DFL301F

Machine Type - Model
7DG8CTO2WW

Serial Number
0987654321

UUID
C335860010E911E9D684745D22D069FF

CPU Information

CPU Count
2

CPU1 Name
Intel(R) Xeon(R) 6710E

CPU1 Family
Intel Xeon Processor

CPU1 Model
Sierra Forest

CPU1 Max Speed
3200 MHz

CPU1 Max Cores
64

CPU2 Name
Intel(R) Xeon(R) 6710E

CPU2 Family
Intel Xeon Processor

CPU2 Model
Sierra Forest

CPU2 Max Speed
3200 MHz

CPU2 Max Cores
64

DIMM Information

DIMM Total Count
20

DIMM Total Capacity
640 GB

System Summary

PCI Adapter Information

PCI Adapter Count
2

ThinkSystem RAID 940-8i 8GB Flash PCIe Gen4 12Gb AdapterSLOT3

Broadcom 5719 1GbE RJ45 4-port OCP Ethernet Adapter
SLOT6

Disk Drive Information

Disk Drive Device Quantity
4

MODEL#:SSD5C2KG240G7L
SN#:BTYM73460EQQ240AGN

MODEL#:SSD5C2KG240G7L
SN#:BTYM73460EZ0240AGN

MODEL#:SSDPE2KX010T8L
SN#:BTLJ913505G11P0FGN

MODEL#:SSDPE2KX010T8L
SN#:BTLJ913504M01P0FGN

Partition Information

Volume1 Name
Logical Device

Volume1 Size
223 GB

Partition Count
0

Volume2 Name
Logical Device

Volume2 Size
223 GB

Partition Count
0

Volume3 Name
Hard Disk

Volume3 Size
931 GB

Partition Count
4

Partition#1
FAT

Partition#2
FAT

Partition#3
FAT

Partition#4
FAT

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— PCI Adapter Information

PCI Adapter Count	2
ThinkSystem RAID 940-8i 8GB Flash PCIe Gen4 12Gb AdapterSLOT3	
Broadcom 5719 1GbE RJ45 4-port OCP Ethernet Adapter	SLOT6

— Disk Drive Information

Disk Drive Device Quantity	4
MODEL#:SSD5C2KG240G7L	SN#:BTYM73460EQQ240AGN
MODEL#:SSD5C2KG240G7L	SN#:BTYM73460EZ0240AGN
MODEL#:SSDPE2XX010T8L	SN#:BTLJ913505G11P0FGN
MODEL#:SSDPE2XX010T8L	SN#:BTLJ913504M01P0FGN

— Partition Information

Volume1 Name	Logical Device
Volume1 Size	223 GB
Partition Count	0
Volume2 Name	Logical Device
Volume2 Size	223 GB
Partition Count	0
Volume3 Name	Hard Disk
Volume3 Size	931 GB
Partition Count	4
Partition#1	FAT
Partition#2	FAT
Partition#3	FAT
Partition#4	FAT

LXPM5 – OS Installation

Supported OSs are listed below:

Windows Server	WS2025
	WS2022
Windows Client	Win10
	Win11
VMWare	ESXi9.0
RHEL	RHEL9.4
	RHEL9.5
SLES	SLES15.6

Provisioning Manager

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ThinkSystem SR630 V4, Processor board, BHS, 1U, Renesas
MTM: 7DGBCTO2WW SN: 0987654321

Guided Install

1 Drive Selection

2 OS Selection

3 Installation Settings

4 Partition Options

5 Summary

OS Family

OS Edition

OS Image

Protocol

IP Address

User Name

Password

Path

File Name

Windows

Windows Server 2022 Standard

Windows Server 2022 Standard

Windows Server 2022 Datacenter

Windows Server 2025 Standard

Windows Server 2025 Datacenter

Windows 10 Enterprise

Windows 10 Enterprise N

Windows 11 Enterprise

Windows 11 Enterprise N

Windows 11 Pro for Workstations

Windows 11 Pro N for Workstations

Quit Wizard

Previous

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LXPM5 – Firmware Update

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ThinkSystem SR630 V4, Processor board, BHS, 1U, Renesas
MTM: 7DG8CTO2WW SN: 0987654321



Firmware Update

Firmware level of key components in the server are shown in the table. You may browse to your update packages on network share or USB drive, and then update them all or selectively. If you need to update firmware to all components including add-on adapters and hard drives, use the management controller interface or other tools.

	Component	Installed Version	Available Version	Status
☐	UEFI	IHE103L		
☐	XCC (management controller)	IHX403I		
☐	XClarity Provisioning Manager	DFL103J		
☐	Windows Driver Bundle	DFL301F		
☐	Linux Driver Bundle	DFL201E		

Browse Update Package...

Update

LXPM5 – UEFI Setup

The screenshot displays the LXPM5 UEFI Setup interface. On the left is a dark sidebar titled "Provisioning Manager" with icons and labels for: System Summary, RAID Setup, OS Installation, Firmware Update, **UEFI Setup** (highlighted in yellow), Cloning, Diagnostics, Effortless Reset, a mobile device icon, User Guide, Server Documentation, and Support. The main area has a top header with system details: "ThinkSystem SR630 V4, Processor board, BHS, 1U, Renesas" and "MTM: 7DG8CTO2WW SN: 0987654321". Below this is a yellow "UEFI Setup" tab. The central menu lists: System Information (selected), System Settings, Date and Time, Start Options, Boot Manager, BMC Settings, System Event Logs, User Security, and Default Options. To the right of this menu is a breadcrumb trail: "< System Information", "▸ System Summary", and "▸ Product Data". At the bottom of the central menu are buttons for "Save Settings" (highlighted in yellow), "Exit UEFI Setup", "Discard Settings", and "Default Settings". A "Context Help" section at the bottom right states: "Display the basic details of the system."

LXPM5 – Cloning

Provisioning Manager

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MTM: 7DGBCTO2WW SN: 0987654321

Cloning

Export – Save current settings to files

☒ UEFI

Browse

☐ RAID

Browse

☐ BMC

Browse

Export

Import – Apply settings from files

☐ UEFI

Browse

☐ RAID

Browse

☐ BMC

Browse

☐ OS Installation

Browse

Import

LXPM5 – Diagnostics

The screenshot shows the 'Provisioning Manager' web interface. On the left is a dark sidebar with a list of navigation items: 'System Summary', 'RAID Setup', 'OS Installation', 'Firmware Update', 'UEFI Setup', 'Cloning', 'Diagnostics' (highlighted in yellow), and 'Effortless Reset'. Below these are icons for 'User Guide', 'Online Documentation', and 'Tech Support'. The main content area has a header bar with system information: 'ThinkSystem SR630 V4, Processor board, BHS, 1U, Renesas' and 'MTM: 7DG8CTO2WW SN: 0987654321'. Below the header, the 'Diagnostics' section is active, showing a list of actions: 'Effortless Diagnostics' (highlighted in yellow), 'Run Diagnostics', and 'Collect Service Data'. Each action has a brief description of its function.

Provisioning Manager

ThinkSystem SR630 V4, Processor board, BHS, 1U, Renesas
MTM: 7DG8CTO2WW SN: 0987654321

Diagnostics

Select one of the following actions:

- > Effortless Diagnostics**
Run diagnostics test, collect service data and RAID log, automatically save the log files.
- > Run Diagnostics**
Check the system health, view active events, or test the memory and hard disk drives installed in the system.
- > Collect Service Data**
Select the type of service log to download.

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LXPM5 – Diagnostics – Hardware Health

The screenshot displays the LXPM5 Hardware Health interface. On the left is a dark sidebar with the title 'Provisioning Manager' and a list of navigation items: 'Hardware Health' (highlighted with a yellow background), 'Memory Test', 'Disk Drive Test', and 'RAID Log'. The main content area has a header bar with system information: 'ThinkSystem SR630 V4, Processor board.BHS.1U, Renesas MTM: 7DG8CT02WW SN: 0987654321'. Below this, the 'Hardware Health' section is titled. It features a 'Health Summary' section with a grid of component status cards. Each card includes an icon, a status indicator (green checkmark for good, red exclamation mark for warning, yellow triangle for caution), and the component name. The components shown are CPU, Memory, Storage, PCI, Power Supply, Fan, System Board, and Others. A 'Refresh' button is located at the bottom left of the main content area. The top right of the interface contains several utility icons: a globe, a gear, a person, and a bell.

Component	Status
CPU	Good (Green Checkmark)
Memory	Warning (Red Exclamation Mark)
Storage	Good (Green Checkmark)
PCI	Good (Green Checkmark)
Power Supply	Good (Green Checkmark)
Fan	Warning (Red Exclamation Mark)
System Board	Good (Green Checkmark)
Others	Caution (Yellow Triangle)

LXPM5 – Diagnostics – Memory Test

Provisioning Manager

Hardware Health

Memory Test

Disk Drive Test

RAID Log

ThinkSystem SR630 V4, Processor board, BHS, 1U, Renesas
MTM: 7DG8CTO2WW SN: 0987654321

Memory Test

Test Scope

☒ Test by cycles

☐ Test by time

1

8

Cycles (1-9999)

Minutes (1-1440)

Test Strength

☒ Quick Test

☐ Full Test

☐ Advanced Memory Test

Log Location:

Run

LXPM5 – Diagnostics – Drive Test

Provisioning Manager

Hardware Health

Memory Test

Disk Drive Test

RAID Log

ThinkSystem SR630 V4, Processor board, BHS, 1U, Renesas
MTM: 7DG8CT02WW SN: 0987654321

⌐ ⚙ ⓘ 📶

Disk Drive Test

Test Strength

☒ Short Self Test

☐ Long Self Test

Test Status

The Disk Drive Test will take a few minutes.

☒	Model Number	Serial Number	Status	Duration
☒	SSD5C2KG240G7L	BTYM73460EQQ240AGN	Ready	0 seconds
☒	SSD5C2KG240G7L	BTYM73460E20240AGN	Ready	0 seconds
☒	SSDPE2XX010T8L	BTJ913505G11P0FGN	Ready	0 seconds
☒	SSDPE2XX010T8L	BTJ913504M01P0FGN	Ready	0 seconds

Press ESC key to abort testing

Log Location:

Run

Save

🔍

LXPM5 – Diagnostics – RAID Log

Provisioning Manager

Hardware Health

Memory Test

Disk Drive Test

RAID Log

ThinkSystem SR630 V4, Processor board, BHS, 1U, Renesas
MTM: 7DG8CT02WW SN: 0987654321

Exit

RAID Log

Select RAID Adapter

☒	Select RAID Adapter	Serial Number	Disk Drive Device Quantity	Virtual Disks Device Quantity	Status
☒	RAID 940-8i 8GB Flash	SK01076057	2	0	Ready

Log Location:

RunSave

LXPM5 – Effortless Reset

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MTM: 7DG8CT02WW SN: D987654321

Effortless Reset

Permanently erase all data on internal storage devices, clear all system logs, reset all system firmware to factory default including credentials and network settings. Please remove all the external storage devices and other unsupported storages before executing the function.

BMC Authentication

User:

Password:

OK

Note: Ensure that the BMC user account is currently valid for web login. If the account password is expired, or is set to change password at next login, then authentication will fail.
If authentication fails here, try to login to the BMC web interface to correct the situation, then retry this function again.

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Summary

This course enabled you to:

- Describe the new features of the software tools supported by ThinkSystem V4 servers
- Describe the difference of the software tools between ThinkSystem V3 and V4 servers
- Describe the features introduced in the newer versions of existing software tools that support ThinkSystem servers