Changes to ThinkSystem server specifications

Details of the ThinkSystem server hardware specification changes after the release of second-generation Xeon Scalable processors

ThinkSystem server changes overview

- The following ThinkSystem servers support Intel second-generation Xeon Scalable processors:
  - ST550, SR530, SR550, SR570, SR590, SR630, SR650, SR670, SR850, SR860, SR950, SN550, SN850, SD530, and SD650
- Most ThinkSystem servers with second-generation Xeon Scalable processors use the same system board and chassis, and also support the same drive configuration, I/O slot configuration, and port configurations as systems with first-generation processors.
- The following slides only list specification changes related to the new processors. All other specifications will remain the same.
- For the latest ThinkSystem server specifications, refer to each server's Product Guide on Lenovo Press: https://lenovopress.com/.
- For the latest information on the compatibility of option parts with ThinkSystem servers, refer to ServerProven: https://static.lenovo.com/us/en/serverproven/index.shtml.
- For DCPMM population rules for each system, refer to each system's Setup Guide and Maintenance Manual on the Lenovo Support Web site https://support.lenovo.com/.

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Changes to the ST550

- The ST550 supports second-generation Xeon Scalable bronze, silver, gold, and platinum series processors.
- The ST550 supports RDIMMs and LRDIMMs up to 2933 MHz.
- The ST550 does not support DCPMMs.
- The ST550 product guide:
  https://lenovopress.com/lp1055-thinksystem-st550-server-xeon-sp-gen-2

Changes to the SR530

- The SR530 supports second-generation Xeon Scalable bronze, silver, gold, and platinum series processors.
- The SR530 supports RDIMMs up to 2933 MHz for one DIMM per channel (1 DPC).
- The SR530 does not support DCPMMs.
- The SR530 product guide:
  https://lenovopress.com/lp1045-thinksystem-sr530-server-xeon-sp-gen2

Changes to the SR550

- The SR550 supports second-generation Xeon Scalable bronze, silver, gold, and platinum series processors.
- The SR550 supports RDIMMs up to 2933 MHz for 1 DPC.
- The SR550 does not support DCPMMs.
- The SR550 product guide: https://lenovopress.com/lp1046-thinksystem-sr550-server-xeon-sp-gen2

Lenovo

Changes to the SR570

- The SR570 supports second-generation Xeon Scalable bronze, silver, gold, and platinum series processors.
- The SR570 supports RDIMMs and LRDIMMs up to 2933 MHz for 1 DPC.
- The SR570 supports up to four DCPMMs.
- The SR570 product guide:
  https://lenovopress.com/lp1047-thinksystem-sr570-server-xeon-sp-gen2

Changes to the SR590

- The SR590 supports second-generation Xeon Scalable bronze, silver, gold, and platinum series processors.
- The SR590 supports RDIMMs and LRDIMMs up to 2933 MHz for 1 DPC.
- The SR590 supports up to four DCPMMs.
- The SR590 product guide:
  https://lenovopress.com/lp1048-thinksystem-sr590-server-xeon-sp-gen2

Lenovo

Changes to the SR630

- The SR630 supports second-generation Xeon Scalable bronze, silver, gold, and platinum series processors.
- The SR630 supports RDIMMs and 3DS RIMMs up to 2933 MHz for 1 DPC.
- The SR630 supports up to 12 DCPMMs.
- The SR630 product guide:
  https://lenovopress.com/lp1049-thinksystem-sr630-server-xeon-sp-gen2

Changes to the SR650

- The SR650 supports second-generation Xeon Scalable bronze, silver, gold, and platinum series processors.
- The SR650 supports RDIMMs and 3DS RDIMMs up to 2933 MHz for 1 DPC.
- The SR650 supports up to 12 DCPMMs.
- The SR650 product guide:
  https://lenovopress.com/lp1050-thinksystem-sr650-server-xeon-sp-gen2

Lenovo

Changes to the SR670

- The SR670 supports second-generation Xeon Scalable silver, gold, and platinum series processors.
- The SR670 supports RDIMMs, LRDIMMs and 3DS RDIMMs up to 2933 MHz.
- The SR670 supports up to 24 DIMMs.
- The SR670 does not support DCPMMs.
- The SR670 product guide:
  https://lenovopress.com/lp1051-lenovo-thinksystem-sr670-server-xeon-sp-gen-2

Lenovo

Changes to the SR850

- The SR850 supports second-generation Xeon Scalable gold and platinum series processors.
- The SR850 does not support second-generation Xeon Scalable bronze and silver series processors.
- The SR850 supports RDIMMs and 3DS RDIMMs up to 2933 MHz.
- The SR850 supports up to 12 DCPMMs.
- The SR850 product guide: https://lenovopress.com/lp1052-thinksystem-sr850-server-xeon-sp-gen-2

Changes to the SR860

- The SR860 supports second-generation Xeon Scalable gold and platinum series processors.
- The SR860 does not support second-generation Xeon Scalable bronze and silver series processors.
- The SR860 supports RDIMMs and 3DS RDIMMs up to 2933 MHz.
- The SR860 supports up to 12 DCPMMs.
- The SR860 product guide: https://lenovopress.com/lp1053-thinksystem-sr860-server-xeon-sp-gen-2

Changes to the SR950

- The SR950 supports second-generation Xeon Scalable gold and platinum series processors.
- The SR950 does not support second-generation Xeon Scalable bronze and silver series processors.
- The SR950 supports RDIMMs and 3DS RDIMMs up to 2933 MHz.
- The SR950 supports up to 12 DCPMMs.
- The SR950 now supports 2000 W power supplies. (SR950 models with first-generation Xeon Scalable processors only support 1100 W and 1600 W power supplies.)
- The SR950 now supports 19000 RPM system fans. (SR950 models with first-generation Xeon Scalable processors only support 16000 RPM fans.)
- The SR950 product guide:
  https://lenovopress.com/lp1054-thinksystem-sr950-server-xeon-sp-gen-2

Note: System fans with a 19000 RPM running speed are designed for cluster extension configuration use. If users want to upgrade existing SR950 models with second-generation Xeon Scalable processors, they do not need to upgrade the fans. The existing 16000 RPM fans can still be used.

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Changes to the SD530

- The SD530 supports second-generation Xeon Scalable bronze, silver, gold, and platinum series processors.
- The SD530 supports RDIMMs, LRDIMMs, and 3DS RDIMMs up to 2933 MHz.
- The SD530 supports up to four DCPMMs. The DCPMMs are not supported in the compute node that is installed in a PCIe expansion node.
- The SD530 product guide: https://lenovopress.com/lp1041-thinksystem-sd530-server-xeon-sp-gen-2

Changes to the SD650

- The SD650 supports second-generation Xeon Scalable gold and platinum series processors.
- The SD650 supports RDIMMs and 3DS RDIMMs up to 2933 MHz.
- The SD650 supports up to four DCPMMs.
  - DCPMMs for the SD650 have a specific thermal design. During the manufacturing process, Lenovo preinstalls thermal gap pads on both sides of the DCPMMs.

- The SD650 product guide:
https://lenovopress.com/lp1042-thinksystem-sd650-server-xeon-sp-gen-2

Note: Due to thermal design changes, users cannot install DCPMMs on the SD650 base model even if they have already upgraded the system with second-generation Xeon Scalable processors. Click **HERE** for more details.

Changes to the SN550

- The SN550 supports second-generation Xeon Scalable bronze, silver, gold, and platinum series processors.
- The SN550 supports RDIMMs and 3DS RDIMMs up to 2933 MHz for 1 DPC.
- The SN550 supports up to 12 DCPMMs.
- The SN550 product guide:
  https://lenovopress.com/lp1043-thinksystem-sn550-server-xeon-sp-gen-2

Lenovo

Changes to the SN850

- The SN850 supports second-generation Xeon Scalable gold and platinum series processors.
- The SN850 supports RDIMMs and 3DS RDIMMs up to 2933 MHz for 1 DPC.
- The SN850 supports up to 12 DCPMMs.
- The SN850 product guide:
  https://lenovopress.com/lp1044-thinksystem-sn850-server-xeon-sp-gen-2

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