

The EMC VNX series implements a modular architecture that integrates hardware components for Block, File, and Object with concurrent support for native NAS, iSCSI, Fiber Channel, and Fibre Channel over Ethernet (FCoE) protocols. The VNX series is based on Intel® Xeon®-based PCI Express 2.0 processors and delivers File (NAS) functionality via two to eight Data Movers and Block (iSCSI, FCoE, and FC) storage via dual storage processors using a full 6-Gb/s SAS disk drive topology.

This guide describes one of five models available in the VNX series, the VNX5300.

The VNX5300 is a mid-range/entry level storage platform. It offers Block services, File services, or Unified Block and File services. These services consist of:

- **Block-only**—Includes a disk processor enclosure (DPE), a 1.2 KW standby power supply (SPS), and disk-array enclosures (DAEs) for holding hard disk drives that are integrated to facilitate Fibre Channel, Fibre channel over Ethernet (FCoE), and iSCSI Block services to Windows® and UNIX® hosts.
- **File-only**—Adds Data Mover enclosure (DME) and Control Station (CS) hardware to the SPE, SPS, and DAEs to facilitate file services to CIFS/NFS clients.
- **Unified Block and File**—Uses same hardware as the File-only configuration but adds FC, iSCSI, and FCoE I/O connectivity to provide Block services to host simultaneously so as to provide File services to clients.

The VNX5300 platform supports two types of DPEs and DAEs; a 15 drive 3.5-inch disk 3U enclosure and a 25 drive 2.5-inch disk 2U enclosure. Expansion of up to seven 3U DAEs (a maximum of 120 3.5-inch disk drives) or up to four 2U DAEs (a maximum of 125 2.5-inch disk drives) is supported.



IMPORTANT

When calculating the number of drives for your VNX5300 platform, the DPE is included in the total drive quantity of 125 drives. If the total drive quantity exceeds 125, you will not be able to add another DAE.

Topics covered include:

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