

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 VNX7500.

The VNX7500 is a high-end/large-capacity storage platform. It offers Block services, File services, or Unified Block and File services. These services are composed of:

- **Block-only**—Includes a storage processor enclosure (SPE), 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 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 VNX7500 platform supports two types of DAEs; a 15 drive 3.5-inch disk 3U enclosure and a 25 drive 2.5-inch disk 2U enclosure. Expansion of up to sixty-six 3U DAEs (a maximum of 990 3.5-inch disk drives) or up to forty 2U DAEs (a maximum of 1000 2.5-inch disk drives).

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Emc Vnx7500 Hardware Information Guide

**Jon Tate,Tiago Moreira Candelaria
Bastos,Jon Herd,Sang-hyun
Kim,Sergey Kubin,Dirk
Peitzmann,Antonio Rainero,IBM
Redbooks**

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IBM FlashSystem Best Practices and Performance Guidelines Anil K Nayak, Antonio Rainero, Barry Whyte, Chris Hoffmann, Danilo Morelli Miyasiro, David Green, Duane Bolland, Jackson Shea, Jon Herd, Jordan Fincher, Marcelo Avalos, Sergey Kubin, Sidney Varoni Junior, Thales Noivo Ferreira, Vasfi Gucer, IBM Redbooks, 2021-10-13 This IBM Redbooks publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM FlashSystem products These practices are based on field experience This book highlights configuration guidelines and preferred practices for the storage area network SAN topology clustered system back end storage storage pools and managed disks volumes Remote Copy services and hosts It explains how you can optimize disk performance with the IBM System Storage Easy Tier function It also provides preferred practices for monitoring maintaining and troubleshooting This book is intended for experienced storage SAN IBM FlashSystem SAN Volume Controller and IBM Storwize administrators and technicians Understanding this book requires advanced knowledge of these environments *IBM System Storage SAN Volume Controller, IBM Storwize V7000, and IBM FlashSystem 7200 Best Practices and Performance Guidelines* Jon Tate, Tiago Moreira Candelaria Bastos, Jon Herd, Sang-hyun Kim, Sergey Kubin, Dirk Peitzmann, Antonio Rainero, IBM Redbooks, 2020-12-07 This IBM Redbooks publication captures several of the preferred practices and describes the performance gains that can be achieved by implementing the IBM System Storage SAN Volume Controller and IBM Storwize V7000 powered by IBM Spectrum Virtualize™ V8.2.1 These practices are based on field experience This book highlights configuration guidelines and preferred practices for the storage area network SAN topology clustered system back end storage storage pools and managed disks volumes remote copy services and hosts Then it provides performance guidelines for SAN Volume Controller back end storage and applications It explains how you can optimize disk performance with the IBM System Storage Easy Tier function It also provides preferred practices for monitoring maintaining and troubleshooting SAN Volume Controller and Storwize V7000 This book is intended for experienced storage SAN and SAN Volume Controller administrators and technicians Understanding his book requires advanced knowledge of the SAN Volume Controller and Storwize V7000 and SAN environments Important On 11th February 2020 IBM announced the arrival of SAN Volume Controller SA2 and SV2 and IBM FlashSystem 7200 to the family This book was written specifically for prior versions of SVC and Storwize V7000 however most of the general principles will apply If you are in any doubt as to their applicability then you should work with your local IBM representative This book will be updated to comprehensively include SAN Volume Controller SA2 and SV2 and FlashSystem 7200 in due course

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