

# EMC SYMMETRIX VMAX 20K STORAGE SYSTEM



The EMC® Virtual Matrix Architecture™ is a new way to build storage systems that transcends the physical constraints of all existing architectures by scaling system resources through common building blocks called EMC® Symmetrix® VMAX® 20K engines.

A single VMAX 20K engine provides the complete foundation for a high-availability Symmetrix VMAX 20K system. Each VMAX 20K engine contains two Symmetrix VMAX 20K directors and redundant interfaces to the EMC Virtual Matrix™ interconnect. Each Symmetrix VMAX 20K director consolidates front-end, global memory, and back-end functions, enabling direct memory access to data for optimized I/O operations.

VMAX 20K engines are interconnected via a set of multiple active fabrics that provides scalable performance and high availability. VMAX 20K engines can be added non-disruptively to provide linear scale-out of Symmetrix system resources. The Virtual Matrix is architected to scale to dozens of engines, geographically dispersed throughout a data center, delivering unprecedented scale of infrastructure services under a single point of management.

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## VMAX 20K ENGINE MAXIMUM SPECIFICATIONS

- Four Quad-core 2.33 GHz Intel® Xeon® processors
- Up to 128 GB of memory
- Virtual Matrix bandwidth: 24 GB/s

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## VMAX 20K MAXIMUM SYSTEM SPECIFICATIONS

- Eight VMAX 20K engines
- 1 TB of memory
- Virtual Matrix bandwidth: 192 GB/s

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## VMAX 20K INTERCONNECT

- Industry-standard RapidIO® fabric (Virtual Matrix Architecture is extendible to other standard interconnects.)

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## CONNECTIVITY

Symmetrix VMAX 20K systems are available in configurations supporting up to eight VMAX 20K engines with a maximum of 128 front-end ports. Optimized hardware logic and data protection encoding ensures end-to-end data integrity with automated channel failover for a maximum availability and load balancing.

Symmetrix VMAX 20K systems support all popular hardware and operating system platforms, storage area networks (SANs), and high-availability cluster environments. SPv6, SPec, and compression support are available with 1 Gb/s Ethernet ports. SPv6 support is available with 10 Gb/s Ethernet.

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## PROTOCOL

8 Gb/s Fibre Channel Host/ SAN Ports  
8 Gb/s Fibre Channel Remote Replication Ports  
8 Gb/s FICON Host Ports  
4 Gb/s Fibre Channel Host/SAN Ports  
4 Gb/s Fibre Channel Remote Replication Ports  
4 Gb/s FICON Host Ports  
10 Gb/s 1 Gb/s Ethernet Remote Replication Ports  
10 Gb/s FCoE Host Ports10  
10 Gb/s iSCSI Host Ports10  
1 Gb/s GigE Remote Replication Ports  
1 Gb/s iSCSI Ports

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## USABLE SYSTEM PORTS

4-128 per array, 4-16 ports per engine  
2-32 per array, 2-4 ports per engine  
4-64 per array, 4-8 ports per engine  
4-128 per array, 4-16 ports per engine  
2-32 per array, 2-4 ports per engine  
4-64 per array, 4-8 ports per VMAX engine  
2-32 ports per array, 2-4 ports per engine  
4-64 per array, 4-8 ports per engine  
4-64 ports per array, 4-8 ports engine  
2-32 ports per array, 2-4 ports per engine  
4-64 per array, 4-8 ports per engine

# Configuration And Resource Guide For Symmetrix Vmax

**Justin Sawyer**



## **Configuration And Resource Guide For Symmetrix Vmax:**

VMware Software-Defined Storage Martin Hosken, 2016-08-29 The inside guide to the next generation of data storage technology VMware Software Defined Storage A Guide to the Policy Driven Software Defined Storage Era presents the most in depth look at VMware's next generation storage technology to help solutions architects and operational teams maximize quality storage design Written by a double VMware Certified Design Expert this book delves into the design factors and capabilities of Virtual SAN and Virtual Volumes to provide a uniquely detailed examination of the software defined storage model Storage as a Service STaaS is discussed in terms of deployment through VMware technology with insight into the provisioning of storage resources and operational management while legacy storage and storage protocol concepts provide context and demonstrate how Virtual SAN and Virtual Volumes are meeting traditional challenges The discussion on architecture emphasizes the economies of storage alongside specific design factors for next generation VMware based storage solutions and is followed by an example in which a solution is created based on the preferred option identified from a selection of cross site design options Storage hardware lifecycle management is an ongoing challenge for IT organizations and service providers VMware is addressing these challenges through the software defined storage model and Virtual SAN and Virtual Volumes technologies this book provides unprecedented detail and expert guidance on the future of storage Understand the architectural design factors of VMware based storage Learn best practices for Virtual SAN stretched architecture implementation Deploy STaaS through vRealize Automation and vRealize Orchestrator Meet traditional storage challenges with next generation storage technology Virtual SAN and Virtual Volumes are leading the way in efficiency automation and simplification while maintaining enterprise class features and performance As organizations around the world are looking to cut costs without sacrificing performance availability or scalability VMware based next generation storage solutions are the ideal platform for tomorrow's virtual infrastructure VMware Software Defined Storage provides detailed practical guidance on the model that is set to transform all aspects of vSphere data center storage *PVCS*

*Configuration Builder Reference Guide* INTERSOLV, Inc, 1993

## **Symmetrix 26 Success Secrets - 26 Most Asked**

**Questions on Symmetrix - What You Need to Know** Justin Sawyer, 2014-10-30 Best book on Symmetrix Bar None There has never been a Symmetrix Guide like this It contains 26 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Symmetrix A quick look inside of some of the subjects covered Computer data storage Volatility SRDF EMC NetWorker VCE company Original systems EMC Celerra HighRoad RecoverPoint Integration with other products FICON Devices EMC VPLEX History Symmetrix VMAX EMC VPLEX Architecture EMC Symmetrix EMC Corporation History Multi Path File System Description 3PAR Products Symmetrix Features Moshe Yanai VCE company Products and services

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