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Violin 7700 Flash Storage Platform with Concerto OS 7 Enterprise Data Services

Transform your primary storage and data center economics with Violin's 7700 Flash Storage Platform™. Upgrade your primary storage with enterprise data services, consistent performance, and manageability to achieve new levels of data center consolidation at the cost of legacy disk.

The 7700 Flash Storage Platform (FSP) powered by Concerto OS 7 delivers a rich suite of Enterprise Data Services for a comprehensive solution that transforms your data center with the performance and capabilities your enterprise-class primary storage requires. The 7700 FSP is a modular design that supports up to ten shelves of high performance storage and Enterprise Data Services including business continuity, data protection, data scalability, and data efficiency. Violin's Enterprise Data Services deliver several benefits:

- Shelf-level data reduction including advanced switchable inline data de-duplication and compression for savings up to 10:1 for suitable applications

- Thin provisioning and snapshots to further reduce the required storage

- Flexible and powerful business continuance with synchronous or asynchronous replication, stretch clusters, and continuous data protection capabilities

- Data scaling is simple and includes LUN expansion and a single name space of up to 2 PB of effective capacity after data reduction

- Incorporate any combination of FC-based 6000 series or 7200 series arrays or the new 7300 FSP as shelves in the 7700 to achieve workload goals.

Enterprise Data Services Solution

The 7700 FSP embeds Concerto OS 7 Enterprise Data Services with capabilities that are both highly functional and economic. The 7700 FSP is an optimized solution that delivers powerful data services with excellent manageability, performance, and cost attributes.

The 7700 FSP is enterprise primary storage with increased scalability and business continuance capabilities at the cost of legacy enterprise disk solutions. Concerto OS 7's granular management provides administrators flexibility to respond to unique enterprise requirements. Concerto OS 7 features a de-duplication dashboard that shows the actual de-duplication rate and with the ability to disable de-duplication if it is proving ineffective on a given LUN. The degree of control available with Concerto OS 7 makes the 7700 FSP the safe choice for primary storage in the enterprise data center.

The benefits of the 7700 FSP include lower data center TCO, improved application support, reduced management, and consistent end-user SLAs. CFOs will like the 7700 FSP for its reduced TCO. CIOs will like it as it frees resources to create new business value. Storage admins will like it as it simplifies data center management. The leader for the all-flash data center is Violin Systems. Violin Systems means Business in a Flash.

To learn more about how Violin's 7700 Flash Storage Platform can transform your primary storage and data center economics, please contact your Keeper Technology representative at 571-333-2725 or visit us at http://www.keepertech.com/violin.

violin SYSTEMS

Highlights

Enterprise Data Services

- **Synchronous Replication**

- **Stretch Cluster**

- **Remote Asynchronous Replication**

- **Continuous Data Protection**

- **Flexible Zero and Near-zero RPO and RTO**

- **Thin or Thick Clones**

- **Application and Crash Consistent Snapshots**

- **Thin Provisioning**

Features

- **Up to 700 TB raw, 2 PB effective**

- **16 Gb/s Fibre Channel**

- **10 Gb/s iSCSI**

- **Modular design with up to ten shelves of storage**

- **Upgrade existing 6000 and 7200 Fibre Channel Arrays**

FEATURES	7700 Flash Storage Platform
Base Configuration	7700 HA dual controller modular platform
Capacity (up to 10 shelves)	10TB to 700TB (raw), 34 TB to 2.1 PB (effective after data reduction)
Capacity (up to 10 shelves)	8x16Gb Fibre Channel/ 8 x 10 GbE to up to 10 storage shelves via fabric switch 10GbE to remote replication site
Management Interfaces	2x10/100/1000 Mbits/sec auto-sensing Ethernet ports (RJ-45) Serial (RS-232) console port for management and troubleshooting
Reliability/Resiliency	Controllers deployed as high availability pair No single point of failure
Performance	
Max Throughput Max Bandwidth Min Latency	2,000,000 IOPS 10 GB/sec 0.180 ms
Dimensions*	
Height Width Depth Weight	9RU to 36RU depending on number of storage shelves 3.5"/89mm 17.5"/445mm 169 lbs/76.7kg
Power	10TB to 700TB (raw), 34 TB to 2.1 PB (effective after data reduction)
Cooling	3,210 BTU/hr
Environmentals	
Operating Temperature Range Non-Operating Temperature Range Humidity Range Non-Operating Humidity Range	10 to 35°C (50 to 95°F) -40 to 70°C (-40 to 158°F) 8-90% (non-condensing) 5-95% (non-condensing)
Ecosystem	
Supported Storage	Violin Memory Fibre Channel attached 6100, 6200, 6600, or 7300/7300E
Supported OS Software	Concerto OS 7
Connectivity	8 x 16Gb/s Fibre Channel or 8 x 10GbE iSCSI & 2 x 10GbE replication links
Certifications	VMware VAAI support for Concerto OS 7
Management Interfaces	Symphony, CLI: serial, SSH-SNMP, Web GUI, REST XML API
Regulatory	Safety: IEC/EN 60950, CB Certificate, UL60950-1 CAN/CSA-C22.2 No.60950-1, CE Mark Emissions Class A: EN55022/CISPR 22, FCC Part 15 Class A, ICES-003 Issue 4 Class A, VCCI Class A, AS/NZS CISPR22:2006 Class A BSMI CNS 13438 Class A, Korea RRA Notice No. 2011-18 Class A Immunity: EN55024, EN 61000-4-2,3,4,5,6,8,11 Korea RRA Notice No. 2011-17 RoHS 2011/65/EU For a full list of specific country approvals, please contact Violin Memory in your country

*Typical power for 7700 FSP with HA controllers and HA fabric switches but no storage shelves