

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

Highlights

Enterprise Data Services

- Synchronous Mirroring
- 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 1.4 PB raw, 2 PB effective
- 16 Gb/s Fibre Channel
- 10 Gb/s iSCSI
- Modular design supporting up to ten shelves of storage
- Upgrade existing 6000 series and 7200 Fibre Channel All Flash Arrays



Transform your primary storage and data center economics with the Violin® Flash Storage Platform™ 7700. 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 Flash Storage Platform (FSP) 7700 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 FSP 7700 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 switchable inline data deduplication and compression for savings up to 10:1 depending upon application
- Thin provisioning and snapshots to further reduce the required storage
- Flexible and powerful business continuity with asynchronous replication, synchronous mirroring, and stretch cluster 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 All Flash Arrays or FSP 7250, FSP 7300/E, or FSP 7600 as shelves in the FSP 7700 to achieve workload goals

Enterprise Data Services Solution

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

The FSP 7700 is enterprise primary storage with increased scalability and business continuity 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 deduplication dashboard that shows the actual deduplication rate and with the ability to disable deduplication if it is proving ineffective on a given LUN. The degree of control available with Concerto OS 7 makes the FSP 7700 the safe choice for primary storage in the enterprise data center.

The benefits of the FSP 7700 include lower data center TCO, improved application support, reduced management, and consistent end-user SLAs. CFOs will like the FSP 7700 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®.

To learn more about how Violin's Flash Storage Platform 7700 can transform your primary storage and data center economics, please contact your Violin Systems representative or visit us at <http://www.violin-systems.com>

Features	Flash Storage Platform 7700
Base Configuration	7700 HA dual controller modular platform
Capacity (up to 10 shelves)	10 TB to 1.4 PB (raw), 34 TB to 2.1 PB (effective after data reduction)
Connectivity	8 x 16 Gb Fibre Channel / 8 x 10 GbE to up to 10 storage shelves via fabric switch 10 GbE to remote replication site
Management Interfaces	2x 10/100/1000 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	2,000,000 IOPS @ ~1 ms latency
Max Bandwidth	10 GB/sec
Min Latency	0.180 ms
Dimensions*	
Height	9 RU to 36 RU depending on number of storage shelves
Width	3.5" / 89 mm
Depth	17.5" / 445 mm
Weight	169 lbs / 76.7 kg
Power	1,320 Watts
Cooling	4,503 BTU/hr
Environmental	
Operating Temperature Range	10 to 35 °C (50 to 95 °F)
Non-Operating Temperature Range	-40 to 70 °C (-40 to 158 °F)
Humidity Range	8-90% (non-condensing)
Non-Operating Humidity Range	5-95% (non-condensing)
Ecosystem	
Supported Storage	Violin Systems Fibre Channel attached 6100, 6200, 6600, 7250, 7300/E, 7600
Supported OS Software	Concerto OS 7
Connectivity	8 x 16 Gb/s Fibre Channel or 8 x 1 0GbE iSCSI & 2 x 40 GbE 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 Systems in your country

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