

Highlights

Flash Storage Platform

- Aria empowers Violin's FSP to deliver primary storage at the cost of legacy enterprise disk
- Consistent sustained performance enables Tier 0, 1, 2 storage consolidation on Violin's FSP
- Simplify operations with Violin's FSP powered by Aria

Platform Services

- Core Services:
 - Boot the system
 - Allocate Resources
 - Monitor all Hardware modules
 - Monitor system temperature
 - Cooling the system
- 7300 FSP additional capabilities:
 - Non Disruptive Image Upgrade
 - Simple Setup – Configuration Tool
 - Call home services – Error Reporting

Product Specifications

- Aria supports the FSP 7250, FSP 7300 and FSP 7600

Aria

Aria provides the core functionality that powers the Violin Flash Storage Platform. The purpose built architecture of the Flash Storage Platform makes it uniquely able to deliver consistent, high performance and low latency to create a new class of flash-based storage solutions.

Managing enterprise class data storage can be a time consuming and complex process. Monitoring solutions and personnel to operate them add to both CAPEX and OPEX costs for the data center. Finding ways to mitigate these challenges, while maintaining maximum availability requires intelligent hardware platforms that are built upon a high availability architecture and have the ability to proactively manage and monitor critical internal processes. The Violin Flash Storage Platform (FSP) delivers on these needs with its No Single Point of Failure (NSPoF) design and Aria software which powers the core functionality of the system controllers and provides for overall system monitoring, as well as power and cooling management.

Platform Services

Aria is a system level operating system responsible for providing boot services to FSP systems and powers on each system module. Once in operation, the software monitors the system temperature and controls each of the multiple, redundant system fans to maintain optimal cooling. To further meet the requirements of an enterprise class storage array, Aria provides non-disruptive upgrade capabilities to the FSP.

The Aria software powers the array control modules on all Violin FSP models. The protection of communication between a FSP and other equipment is fully implemented within its OS (i.e. Aria OS 7). Aria uses Secure Sockets Layer (SSL) and Transport Layer Security (TLS) for network connections between a host computer and Flash Storage Platforms. Secure Shell (SSH) encrypts all traffic (AES-128 (128-bit key) and RC-4 (128-bit key) algorithms) between a host computer and Flash Storage Platforms.

Data Center Economics

The Violin FSP powered by Aria provides the foundation for a significant data center consolidation by reducing the I/O wait times that applications endure. This reduces CAPEX due to a streamlined data center that achieves cost savings from all layers of IT infrastructure: storage, servers, and application and server OS software licenses.

With Violin's FSP powered by Aria OS, you get continuous availability and reduced risk to operations. Through vertically integrated software, firmware, and hardware resiliency, the FSP enables you to deploy enterprise-class all-flash primary storage at the same cost as legacy enterprise disk solutions. With Violin's unique FSP you can run your primary storage, and Business in a Flash.

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