

StellarFlash®

A Compelling All-Flash Array Solution

ProphetStor powered StellarFlash arrays are based on certified commodity storage server platforms, delivering a higher-performance, flexible and unparalleled user experience. ProphetStor's patented technology can dynamically or statically allocate available storage resources to satisfy the changing needs of business-critical applications at a budgeted TCO.

Smart Cache

If IT Budget and cost were not an issue, then enterprises would most likely choose to provision full flash resources to all workloads. Whilst this might be over-kill for many requirements it would be one way (albeit an expensive way) to ensure that storage I/O capacity is unlikely to be saturated, ever. The reality is that most corporations do not have the luxury of unlimited IT budgets. As a result, most require that some kind of storage-equivalent of statistical multiplexing is needed.

Every StellarFlash array ships with ProphetStor's patented Smart Cache technology, which analyze workloads, predict traffic models, and then elastically provision necessary flash resources to meet the demands of various applications from time to time. Databases and virtual machines can be allocated more SSD at times they are driving intensive reads and writes on storage.

Efficiency and Utilization

ProphetStor's Smart Cache relies on two major technologies, Traffic Modelling Module (TMM) and Elastic Resources Control (ERC), to leverage advanced big data analytics and machine learning technologies for the analysis of all I/O usage patterns and pre-emptively adjust available storage resources to optimize the overall system performance according to the administrator-defined policies. With TMM/ERC turned on, StellarFlash Arrays can avoid over-provision storage resources for workloads, and are 45~51% efficient than average hybrid storage servers in the market today.

10x Space Saving = Investment Saving

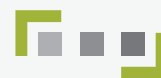
In addition to Smart Cache, StellarFlash also provides a high-efficient flash usage and up to 10X space saving by leveraging ProphetStor's deduplication and compression technologies.

100x Faster Deployment

It is always a time-consuming work for massive deployment in data centers. In addition to a unified graphical user interface to manage and monitor the entire storage environment from a single pane of glass, StellarFlash provides a set of feature-rich REST APIs to users for the rapid creating and provisioning flash resources to workloads.

Data Protection

Data protection is built into every StellarFlash array, eliminating the inefficiency associated with managing primary and backup storage tiers. StellarFlash arrays use advanced data protection features including frequent point-in-time snapshots, replication, active-active controller failover, encryption and RAID.



PROPHETSTOR

Turbocharge your applications with flash-optimized, and turn your storage infrastructure into high-performance All Flash Array, delivering a powerful, flexible and unparalleled storage experience. All-in-one suite of Data Services and Advanced Data Protection for unbeatable price points!

All-Flash Array



Features

- iSCSI & Fibre Channel
- Multi-path support
- RDMA
- IOPS guarantee
- High availability
- Thin provision
- Inline compression
- Inline deduplication
- RAID
- Replication
- Snapshot
- Encryption

Performance

- UP TO 400K IOPS per Array
- @Read



We Define

www.prophetstor.com

Features & Services

Software Specifications		Series
Category		StellarFlash Arrays
Connectivity	Physical Interfaces	Ethernet (10G) / FC (8G,16G, 32G)
	Connection Protocols	iSCSI / FC (Native MPIO support)
	Storage Interfaces	SAS 3 (Up to 115.2TB with expansion shelves)
	Hypervisor Supports	ESXi / Hyper-V / KVM (OpenStack)
	Operation Offloading	VAAI
Host OS Supports		Linux / Windows
Data Reduction	Thin Provisioning	Y
	Inline Deduplication	Y (up to 10X usable space)
	Inline Compression	Y
Data Protection	Snapshots	Y (Redirect on Write; 1,024 per volume; 10,000 array)
	Clones	Y (10,000 clones, replicas or snapshots per array)
	Replications	Async (scheduler support)
	Controller High Availability	Active-Active (No single point of failure)
Data Services	Storage Virtualization	Y (16 pools per array; 1,024 volumes per pool, 16EB per volume)
	IOPS Provisioning	Y
	Auto Pilot	Y (TMM/ERC support)
	Smart Cache	Y
	Analytics and Prediction	Y
	Write Cache Mirror	Y
Management	Rest APIs	Y
	Single-pane of Glass Management	Y
	Monitoring & Metering	Y

Reference Hardware Specifications

StellarFlash Arrays	Mainstream	Performance	Performance
Description	SF-2100	SF-2200A	SF-2200B
Controllers	2	2	2
Raw capacity (TB)	11.52	23.04	38.4
Expansion	2	2	2
Ethernet (iSCSI)	4 x 10Gbps	4 x 10Gbps	4 x 10Gbps
Optional Fibre Channel	4 x 16Gbps	4 x 16Gbps	4 x 16Gbps
Ordering Info	A-SF03-2100A-HM03	A-SF03-2200A-HM03	A-SF03-2200B-HM03

3Y HW warranty, 3Y SW support



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