

Simplifying Deployment and Management in SAN Environments

HP StorageWorks P2000 G3 FC MSA Dual Controller Small Business SAN Starter Kit

Solution brief

Overview

HP has revolutionized SAN deployment and management with the HP StorageWorks P2000 G3 FC MSA Dual Controller Small Business SAN Starter Kit. This new bundled solution combines the capabilities of the HP StorageWorks P2000 G3 FC Modular Smart Array with HP StorageWorks SN6000 Fibre Channel switches to deliver a simple, powerful, and scalable SAN solution that is extremely affordable. The details described in this paper show how this new solution from HP saves customer time and resources in deploying and managing a SAN environment.

HP solution

The HP StorageWorks P2000 G3 FC MSA Dual Controller Small Business SAN Starter Kit provides an easy-to-order, easy-to-configure, scalable, and powerful storage networking solution for customers. Combining best-in-class components into a single bundled solution, HP makes it easy for customers with HP ProLiant ML, DL, or other rack or tower servers to acquire the latest in storage technology at a very affordable price.

IT managers will find that HP provides a complete solution for deploying up to 200 TB of storage in a SAN fabric that can seamlessly integrate into legacy SAN environments and is easy to install, manage, and maintain. They will gain operational efficiencies by spending less time configuring and managing the SAN. The CIO and CFO will appreciate the savings in cost and efficiency that come with this solution.

HP StorageWorks P2000 G3 FC Modular Smart Array (MSA)

The HP StorageWorks P2000 G3 FC MSA is a high-performance 8 Gbps Fibre Channel connected array designed for efficient consolidation and functionality at affordable prices. The included dual FC controllers provide high performance, failover protection, and flexibility to share the array resources to meet the needs of various-sized departments and budgets.

HP StorageWorks Simple SAN Connection Manager (SSCM) Enterprise Software

Simple SAN Connection Manager enterprise software, revolutionary SAN management software from HP, is an integral part of the solution—providing complete, end-to-end management of the SAN fabric, including managing HP StorageWorks HBAs and HP StorageWorks SN6000 Stackable 8Gb Fibre Channel Switches, and even provisioning the storage resources within the HP StorageWorks P2000 G3 FC MSA. Traditional SANs require that administrators employ separate management tools for the individual SAN components, but SSCM facilitates installing a SAN by automating every aspect of setup and configuration. Automatic SAN discovery and the use of point-and-click installation wizards allow deployment of an entire SAN in minutes, not days. SSCM is the software that ties the entire HP solution together.

HP StorageWorks SN6000 Stackable 8Gb 12-Port Single Power Fibre Channel Switch

Two HP StorageWorks SN6000 8Gb 12-Port Single Power Fibre Channel Switches are included in the bundled solution. These are the latest addition to the HP StorageWorks H-series Fibre Channel switch family. Like all H-series offerings, the SN6000 FC switch provides 8 Gbps performance to match the performance of the HP StorageWorks P2000 G3 FC array. In addition, features such as Adaptive Trunking and I/O StreamGuard are included, enabling the highest performance and service levels without expensive add-on licenses. The SN6000 FC switch also includes Transparent Router (TR) capability at no additional charge. Transparent Router enables users to interconnect the H-series fabric to HP B-series or HP C-series fabrics seamlessly and nondisruptively. Customers can protect their investment in the legacy SAN environment while deploying new high-performance, best-in-class technology through the H-series interconnect.

HP StorageWorks 81Q 8Gb Single-Port PCIe FC HBA

The 81Q Fibre Channel HBAs are optimized for performance, low power usage, management, security, reliability, availability, and serviceability.



Comparison: creating 16 LUNs* with and without HP SSCM

	Host creation (8 virtual hosts)	LUN creation (64 LUNs)	LUN mounting (64 LUNs)	Total effort (keyboard time)
Using typical storage management applications	0.5–1 hour	0.5–1 hour	0.5–1 hour	Up to 3 hours
Using HP SSCM	0 hours	~15 minutes	0 hours (Windows®)	~ 0.5 hour

*Note: Times reflect total keyboard time required to accomplish the tasks outlined.

Delivering twice the performance of 4 Gbps HBAs, the 81Q HBA is ideal for customers looking for SAN connectivity solutions with unmatched performance, reliability, and server utilization. Four 81Q HBAs are included in the HP StorageWorks P2000 G3 FC MSA Dual Controller Small Business SAN Starter Kit.

Everything that is required to build the SAN and connect the array and server in a redundant path configuration is included in the HP StorageWorks P2000 G3 FC MSA Dual Controller Small Business SAN Starter Kit—all in a single part number from HP.

Dramatic reduction in solution installation and configuration time

Using traditional methods, it could take a considerable amount of time to configure and prepare a typical storage infrastructure solution for application setup following a physical hardware installation. The end-to-end solution with HP StorageWorks P2000 G3 MSA, H-series switches, and HP StorageWorks SSCM reduces installation and management time dramatically—to minutes.

The table above illustrates the time savings of configuring a typical server and storage solution with HP StorageWorks Simple SAN Connection Manager.

Conclusion

Acquisition and configuration of high-availability storage solutions from HP has never been easier. The HP StorageWorks P2000 G3 FC MSA Dual Controller Small Business SAN Starter Kit is a full turnkey offering that utilizes HP StorageWorks Simple SAN Connection Manager to deploy industry-leading HP P2000 storage arrays, HP StorageWorks SN6000 Fibre Channel switches, and HP 81Q HBAs—and includes all the cabling, SFP+ modules, and accessories required to create a highly available and easily managed storage network with the purchase of a single part number.

Key advantages of this complete HP end-to-end solution include:

- Extremely affordable bundle and unique benefits with the performance and connectivity of the HP P2000 G3 FC MSA and the SN6000 switch
- Lower administration costs through intelligent and simplified management
- Operational efficiencies with SAN management software
 - Simple SAN Connection Manager (SSCM) enterprise software speeds deployment, upgrades, and implementation of best practices
 - Reduced administration and support efforts
 - Integrated end-to-end management from server to storage—manage HBAs and switches, provision storage from a single screen
 - Enterprise-class functionality managed with an intuitive interface

Ordering information

HP StorageWorks P2000 G3 FC MSA Dual Controller Small Business SAN Starter Kit

Part number	Items included	Quantity
AP847A	HP P2000 G3 FC MSA w/dual FC controllers	1
	HP StorageWorks SN6000 Fibre Channel switches with included SSCM	2
	HP 81Q 8Gb Single-Port PCI-e FC HBAs	4
	HP 8Gb Short Wave FC SFP+ Modules	12
	5M Fibre Cables	8
	Rail Kits for Switch	2

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