



# HP Virtualization Solutions Maximize Performance of Storage Environments

Integrated offerings deliver affordable enterprise management functionalities to small and midsize businesses

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## Overview

Managing a storage environment with overwhelming amounts of data can hinder performance and increase operating expense, especially for small and midsize businesses (SMBs). The demand for continuous, high-performance access to information via multiple platforms has led to an increase in both infrastructure complexity and costs.

The [HP P2000 G3 Modular Smart Array](#) (MSA) is among the first entry-level storage arrays in the market to support [VMware vStorage™ APIs for Array Integration](#) (VAAI), making enterprise-class performance and VMware manageability accessible SMBs. It also supports [HP Insight Control Storage Module Manager for VMware vCenter™ Server](#), enabling SMBs to simplify storage management and increase performance.

The P2000 MSA family recently celebrated the shipment of its 250,000th system, and now with enhanced VMware support, continues to build upon HP's leadership in the entry-level storage array market.

While VMware VAAI support is typically associated with high-end or midrange array functionality, the MSA incorporates a greater level of virtual server integration. SMBs can now benefit from simplified deployment, configuration and oversight of virtual machines in [VMware vSphere®](#) environments. With support in HP Insight Control Storage Module Manager for VMware vCenter Server, administrators can easily manage, as well as monitor, the servers, storage and networking of virtual machines through the VMware vCenter Server console.

The enhanced HP P2000 G3 MSA enables clients to:

- Reduce the time to deploy virtual machines by 73 percent with initialization tasks offloaded to the MSA controller for processing

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versus using the SAN and VMware server.<sup>(1)</sup>

- Increase VMware server performance by offloading initialization and copy command processing, which also results in a 99 percent reduction in SAN traffic and server CPU cycles during these activities.<sup>(1)</sup>
- Speed the process of copying, or cloning, a virtual machine within the array by 64 percent without the need for the server to read and write the same fully configured data to each copy.<sup>(1)</sup>
- Ensure advanced data protection using local and remote controller-based snapshots, which come standard with the P2000.

### **Pricing and availability**

The P2000 G3 MSA product family is available today with a wide range of configurations starting under \$9,000.<sup>(2)</sup>

Support for VMware VAAI is standard with all controllers through HP latest firmware release (T230) available on the Support and Downloads section of HP's website.

(1) Configuration testing conducted by HP. Comparative results with HP P2000 iSCSI with VAAI enabled and HP P2000 iSCSI with VAAI disabled.

(2) Estimated U.S. street prices. Actual prices may vary.

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