Maxta MxSP® for VMware vSphere

Technical specifications and benefits of Maxta storage in VMware vSphere environments

> **Enterprise hyperconverged storage fully integrated into VMware vSphere — manage storage from the same console you manage VMs**

Overview

Maxta MxSP® for VMware vSphere delivers a fully integrated hyperconverged storage platform that eliminates the need for separate storage arrays while providing enterprise-class data services managed entirely from the VMware vSphere Web Client. MxSP transforms standard servers running ESXi into a shared storage pool that is presented as an NFS datastore accessible by all hosts in the vSphere cluster.

VMware Integration

vSphere Web Client Plugin

MxInsight® is directly integrated into the VMware vSphere Web Client as a plugin, providing full management capability from a single pane of glass. Administrators can provision storage, set per-VM policies, create snapshots and clones, and monitor performance without leaving the vSphere console.

NFS Datastore Presentation

Maxta storage is presented as an NFS v3 datastore shared across all ESXi hosts in the cluster. This enables seamless integration with all VMware features including vMotion live migration, DRS dynamic resource scheduling, HA high availability, and DPM distributed power management.

MxSP Controller VM

MxSP runs as a virtual machine on each ESXi host, consuming 4 vCPU and 20 GB RAM by default (adjustable based on performance requirements). The controller VM manages all storage operations locally, with the floating master architecture ensuring optimal I/O paths even after VM migrations via vMotion.

VMware Compatibility

MxSP is compatible with VMware vSphere 5.5 U2 and later versions, including vSphere 6.0, 6.5 and 6.7. Full support for vMotion, Storage vMotion, DRS, HA, DPM and fault tolerance. Compatible with VMware guest customization specifications for automated clone deployment. Supports VSS-based application-consistent snapshots for Windows VMs.

Key Benefits for VMware Environments

- Eliminate SAN/NAS complexity while maintaining full vSphere feature compatibility
- Single-pane-of-glass management through native vSphere Web Client plugin

- VM-level storage policies: replicas, striping, compression, cache per VM

- Unlimited zero-copy snapshots and clones without performance penalty

- Scale compute independently by adding ESXi compute-only hosts

- No hypervisor lock-in: migrate to KVM/OpenStack if needed, license transfers free

- Reduce VMware licensing costs by right-sizing compute nodes

Technical Specifications

Supported vSphere versions: 5.5 U2, 6.0, 6.5, 6.7. Storage presentation: NFS v3 datastore. Controller VM resources: 4 vCPU, 20 GB RAM (default). Minimum cluster: 3 ESXi hosts. Maximum cluster: 32 hosts. Flash tier: PCIe NVMe, SATA/SAS SSD (intent log + read cache + metadev). Capacity tier: SATA/SAS HDD. Network: 1GbE minimum, 10GbE dedicated recommended. Management: MxInsight vSphere plugin, CLI, REST API.

About Maxta

Maxta is redefining enterprise IT infrastructure through a groundbreaking approach to hyperconvergence that dramatically simplifies operations while delivering much greater agility and cost savings. Our award-winning MxSP® software and MaxDeploy® appliances offer unparalleled freedom of choice in servers, storage devices and server virtualization platforms. For more information, visit www.maxta.com.