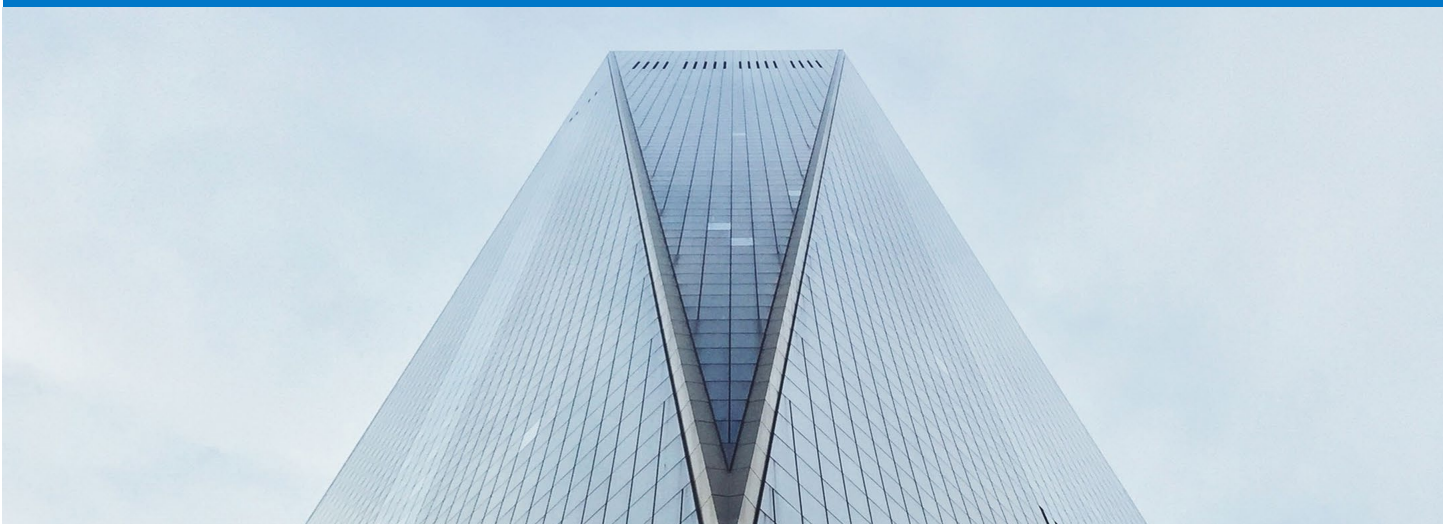
Micron® Accelerated All-Flash VMware vSAN™ 6.7 U1 Solution



Make vSAN Easy to Build, Easy to Grow with Our All-Flash vSAN Reference Design

VMware vSAN™ provides great flexibility to respond to changing business demands. However, a vSAN platform with the most expensive hardware might mean overspending and selecting the cheapest hardware may not meet your performance requirements. Successful configuration planning is crucial.

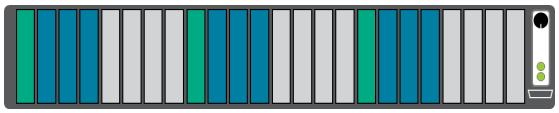
Micron's newest vSAN 6.7 U1 reference architecture targets a configuration based on the VMware AF-8 specification. It optimizes key software and hardware elements to make vSAN easy to build and easy to grow, while keeping costs under control.

Reference architectures using technologies like our workload-specific Micron® SATA SSDs and advanced DRAM, in conjunction with standard x86, 2-socket rackmount servers, multicore processors, and state-of-the-art virtualization software like VMware vSAN, help you build today while keeping your sights firmly set on tomorrow.

Cache SSDs
Micron 5300 MAX 960GB (x3)

Capacity SSDs
Micron 5300 PRO 3840GB (x9)

Platform
2U x86 platform with Intel® CPUs (grey = future expansion)



Major Components: Micron SSDs, 2U 2-Socket Servers with Micron DRAM

Key Features

Balanced All-Flash Performance
Micron's all-flash vSAN 6.7 U1 solution with workload-specific SATA SSDs is optimized at the platform level for results and value.

Cache Tier: Micron 5300 MAX SATA SSD
Bring high IOPS, low latency and workload-tuned endurance to the vSAN cache tier, maximizing results and providing consistent, economical, and fast cache throughput.

Capacity Tier: Micron 5300 PRO SATA SSD
Bring immense virtualized platforms and data closer to the most demanding applications. This all-SSD capacity tier unlocks untapped value so your infrastructure stays one step ahead of your application demands and data growth.

Flexibility and Choice
Build with confidence. Engineer-designed and lab-validated — these solutions enable fast time to deployment with predictable results.

Easier Deployment
Free your deployment teams from the drudgery of experimentation, testing and reconfiguration, and enable them to focus on higher-value tasks like rapid deployment, faster time to value and building your bottom line.

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What's New: vSAN 6.7 U1

According to VMware's Virtual Blocks blog (October 16, 2018),[1] vSAN 6.7 U1 adds:

Simplified Operations (Cluster Quickstart)
The Quickstart guided cluster creation wizard gives administrators a streamlined mechanism for deploying vSAN clusters. Its step-by-step configuration wizard makes creating a production-ready vSAN cluster easy.

Driver and Firmware Updates Using Update Manager
Updated in vSAN 6.7 U1, all ESXi, driver and firmware update functions previously handled by the Configuration Assist workflow have been moved to vSphere Update Manager.

Maintenance Mode Safeguards
Since each vSAN host in a cluster contributes to the cluster storage capacity, entering a host into maintenance mode takes on an additional set of tasks when compared to a traditional architecture.

Micron's Accelerated All-Flash Solution Delivers

Balanced Storage, DRAM and CPUs
Engineered and lab-tested by Micron vSAN platform experts to optimize each node for memory and I/O-intensive applications, our accelerated all-flash solution releases the potential of vSAN 6.7 U1.

A Complete, Deployable Reference Architecture
The reference architecture linked below provides deployment and testing details for a compelling all-flash vSAN configuration that is performance- and density-optimized using Micron's workload-tuned enterprise SATA SSDs.

Faster Time to Happy Applications
Storage (SSDs and DRAM) can represent up to 70% of the value of today's advanced solutions. Micron's accelerated all-flash solutions help you build and deploy faster with confidence.

The Micron 5300 Series: The Latest Evolution of Enterprise SATA SSDs

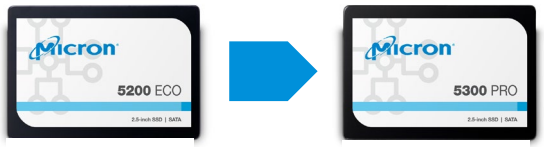
Building on the success of our 5200 series of enterprise SATA SSDs, the Micron 5300 series brings technological advances such as 96-layer, 3D TLC NAND and our third-generation CMOS under the array technology for additional benefits to all-SATA vSAN solutions.

Cache Tier

5200 MAX
960GB

5300 MAX
960GB

Capacity Tier



5200 ECO
3.84TB

5300 PRO
3.84TB

Get Started with All-Flash vSAN 6.7 Update 1

An all-flash vSAN can bring amazing benefits. Get started today by downloading our detailed VMware SAN 6.7 Update 1 Reference Architecture and learn about the complete bill of materials, platform and disk group configuration, software tuning, performance measurements and deployment.

Visit Micron's 5300 SSD page to see Micron's complete line of our most advanced enterrprise SATA SSD to date and download the 5300 Product Brief to learn more about the benefits the 5300 series can bring to your platforms.

For more details on vSAN 6.7, visit VMware's vSAN page.

1. See https://blogs.vmware.com/virtualblocks/2018/10/16/whats-new-in-vsan-6-7-update-1/ for additional details on vSAN 6.7 U1 features

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