



WasabiRAID™

WasabiRAID is a powerful RAID engine that leverages the speed of modern processors to deliver maximum performance while protecting critical data.

Benefits:

- Protects critical data
- Leverages the power of state-of-the-art CPU's for superior performance
- Lowers storage system hardware cost
- Works with any disk interface, including SATA, SAS, SCSI, and Fibre Channel
- Flexible and scalable

Wasabi Systems WasabiRAID™ is a kernel level RAID driver optimized for Wasabi Certified™ BSD. It is compatible with any type of hard drive – including SATA, SATA II, SAS, SCSI, and Fibre Channel. WasabiRAID is powerful, secure, and flexible, making it ideal for DAS, NAS, and SAN storage solutions for SOHO, SMB, and Enterprise markets. The WasabiRAID developer's kit includes the Wasabi RAID driver, documentation, and an API for integration with other applications or a GUI.

Power and Security

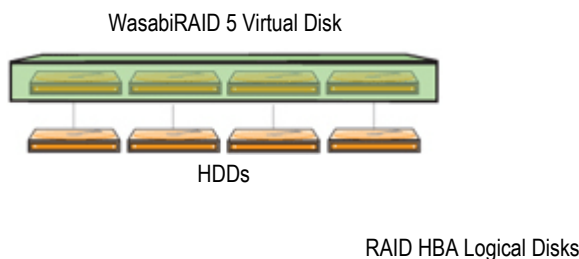
WasabiRAID is a powerful RAID engine that leverages the speed of modern processors to deliver maximum performance while protecting critical data. WasabiRAID supports RAID Levels 0, 1, 10, 5, 50, and spanning. Nested RAID levels can be created using existing WasabiRAID logical disks or by incorporating logical disks created with a RAID HBA. WasabiRAID also takes advantage of XOR engines to offload RAID 5 parity calculation, enabling it to efficiently run on smaller, low-power CPU's. Features such as hot spare, hot swap, and background rebuilds maximize system uptime and minimize windows of vulnerability in the event of a hard disk failure.

Flexibility

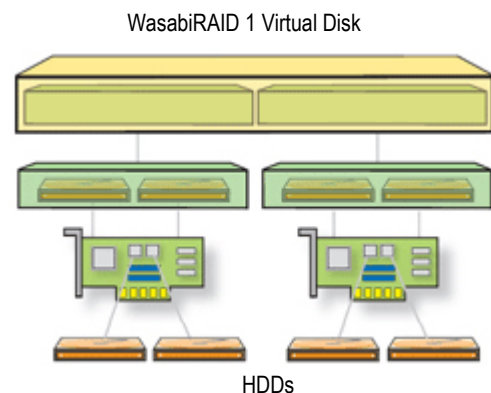
WasabiRAID is perfect for applications large or small. WasabiRAID logical disks can consist of any combination of SATA, SAS, SCSI, and Fibre Channel physical disks, logical disks from RAID controllers - even other WasabiRAID logical disks. Read and write cache policy settings and stripe depth sizes are configurable to optimize performance for specific applications. If additional capacity is needed at a later time, WasabiRAID span mode makes it easy to dynamically expand volumes.

Examples of How WasabiRAID Can Be Used

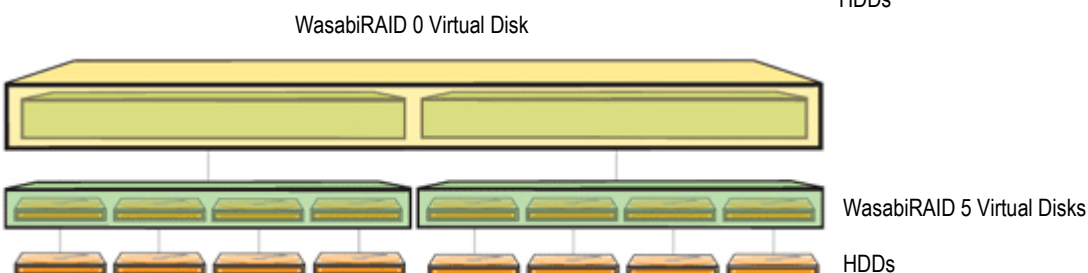
WasabiRAID virtual disks can be created using any combination of SATA, SAS, SCSI, and Fibre Channel drives



WasabiRAID virtual disks can be created using arrays from RAID HBA's



WasabiRAID virtual disks can be created using other WasabiRAID virtual disks



For more information, go to:
www.StorageBuilder.com

Specifications

Feature	Benefits
RAID Levels	0, 1, 5, 10, 50, 51, span. Multiple (nested) RAID levels can be created using any combination of supported RAID levels.
Supported Hard Disk Types	Serial ATA (SATA), SATA II, Serial Attached SCSI (SAS), SCSI, and Fibre Channel
Multiple Logical Disks	Supports multiple arrays over a common set of drives
Stripe Depth Sizes	8K, 16K, 32K, 64K, 128K, and 256K (256K not supported with RAID 5 or 50)
Cache Modes	Write-back and write-through
NVRAM*	Supports NVRAM cards to protect cached data in case of unexpected shutdown
Hot Swap	Quick replacement of a failed drive with no system downtime
Hot Spare	Degraded array automatically rebuilds to a global hot spare
XOR Support*	Supports XOR offload on supported processors via dmover interface
Quick Initialization	Full read/write access while array initialization is in progress
Disk Roaming	Metadata on disk allows logical disks to be moved from one disk controller to another
Auto-Rebuild	Automatically rebuilds a degraded array to a hot spare, or when a new drive is added to an array.
Background Rebuilds	Full read/write access during rebuild and verification operations
Rebuild Watermark	Resumption of rebuild from where it left off if rebuild is unexpectedly interrupted
Dynamic Array Expansion	WasabiRAID span mode can dynamically expand by adding more WasabiRAID logical disks.
Configuration and Monitoring	Command Line Interface, RAID API
Supported RAID Controllers*	3Ware: 8000 series, 9000 series, 9550SX, 9590SE, 9650SE Intel: SRCS28X LSI: MegaRAID SATA 150, MegaRAID SATA 300
Supported Disk Controllers*	Marvell: 88SX60xx /88SX50xx Silicon Image: 3512/3114/3124 Intel: ICHx/6300ESB/31244 nVidia: nForce 2200 Promise: PDC407xx SATA II

* Contact Wasabi Systems for the most current support list.

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Wasabi Systems: A World Class Heritage

Wasabi Systems is the leader in embedded operating systems and networked storage software. The Wasabi Certified BSD OS is the same network operating system found in devices such as switches and routers that power the world's networking backbone. Wasabi Storage Builder for iSCSI and Storage Builder for NAS leverage Wasabi Certified BSD and Wasabi RAID to deliver world-class storage systems that are fast, robust, and reliable.

Wasabi - Powerful Stuff!

