



WASABI STORAGE BUILDER®

IP-SAN v5.0

Open up new opportunities into the high-growth small and medium business (SMB) market by giving your customers IP-SAN storage solutions that provide the security, scalability, and flexibility advantages of a traditional SAN at a significantly lower cost. Using Wasabi Storage Builder with economical off-the-shelf hardware of your choice, OEMs and system integrators can rapidly create powerful IP-SAN storage systems to client specifications.

Maximize IT Investment

Produce and deploy cost-effective IP-SANs by leveraging motherboards and other hardware pre-tested and qualified by Wasabi Systems to assure maximum compatibility and performance. Take advantage of all the performance improvements and cost reductions offered by assembling systems using commodity hardware components.

An Array of Choices

Storage Builder for IP-SAN supports SAS and SATA RAID controllers from LSI Logic and Intel® supporting RAID levels 0, 1, 10, 5, 50, 6 and 60. RAID 6 protects against double-disk failures and provides an extra layer of data protection. For even more flexibility and power, Storage Builder for IP-SAN offers a powerful RAID engine, the WasabiRAID®, to leverage the speed of modern processors in delivering maximum performance while protecting critical data.

WasabiRAID supports RAID Levels 0, 1, 10, 5, 6, 50, and 60. Nested RAID levels can be created by incorporating logical disks created with a RAID HBA. 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.

Time Saver

Wasabi Storage Builder saves you time and money. While other IP-SAN solutions require the purchase and installation of Windows® or Linux, Wasabi Storage Builder delivers everything you need in a self-contained, bootable Flash-based device using Wasabi Flashware technology. It's a tightly-integrated set of software that delivers powerful, cost-effective iSCSI storage.

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IT'S EASY TO BUILD AN IP-SAN STORAGE SYSTEM USING WASABI STORAGE BUILDER. ASSEMBLE A SYSTEM USING OFF-THE-SHELF HARD DRIVES, MOTHERBOARD, AND RAID CONTROLLER. WASABI STORAGE BUILDER IS DELIVERED ON A DISK ON MODULE (DOM) DEVICE THAT PLUGS INTO THE MOTHERBOARD'S IDE OR USB PORT. INSTALL THE WASABI FLASHWARE DOM AND CONFIGURE WITH THE INTUITIVE MANAGEMENT GUI.

Wasabi Storage Builder IP-SAN Features

Supported Hardware

CPUs: Core2 or Xeon processor, Intel based motherboard with 5000 series chipset or higher

- Motherboard must have a EIDE port for the Wasabi Disk on Module (DOM)
 - LSI Logic 82xx, 87xx and 88xx series RAID controllers
 - Hard drive with SATAII or SAS interface
 - DDR,DDR2 Memory. ECC Registered memory recommended for reliability
- Gigabit ethernet adapters and chips: Intel, Broadcom, and others
10 Gigabit Ethernet support: Myricom and Intel

iSCSI Support

Support Multiple Connections per Session (MC/s) CHAP (one-way and mutual)
LUN Masking
Error Recovery Levels (ERL) 0, 1, and 2
Header and Data Digest
iSNS and SLP
Software Initiators: Microsoft, linux-iSCSI, core-iSCSI, open-iSCSI, VMware ESX 3.5, Netware, and SUN Solaris

Networking

Full IPv4 and IPv6
TCP Checksum and Segmentation Offload
Jumbo Frames
Active link indication
Network Time Protocol (NTP)

Volume Management

Supports greater than 2TB volumes support
Supports volumes and virtual disks of up to 18 exabytes (18 EB)
Spanning or RAID across multiple disk arrays
Up to 64 virtual disks (LUNs)

Storage Management

Multiple Snapshots
Support for Online Capacity Expansion
Software iSCSI Initiator
Management Browser-based Configuration / Monitoring Utility
E-mail Notification of logical disk and S.M.A.R.T. failures
Command line interface
Telnet support for accessing the CLI
Multiple Hardware RAID Controller Support

WasabiRAID®

Levels 0, 1, 10, 5, 50, 6, 60 JBOD, and Span
Supports individual JBOD hard disks or RAID
HBA Logical Disks as RAID members

Certifications

Certified under VMWare ESX 3.5

Intuitive GUI Management

Storage Builder's user-friendly GUI management handles every component of the IP-SAN target. Password-protected and remotely accessible, the web-based interface assigns and manages network settings, iSCSI parameters, and volumes. 3ware, Intel, and LSI Logic RAID controller configuration is also integrated, eliminating the need to use a separate utility for RAID management. E-mail and SNMP alerts provide immediate notification of logical disk errors or if hard disk S.M.A.R.T. thresholds are exceeded so that problems can quickly be corrected. Industry-standard SES support enables monitoring of chassis temperature, power supply and drive status, and automatically adjusts fan speed to maintain chassis temperatures within specifications. Context-sensitive help and language localization further enhance this powerful tool.

Storage Leaders

Wasabi Systems is a proven leader in the data storage industry, with internationally reknown engineers developing our technology. Our products bring to businesses a dependable, highly reliable storage solution at an affordable price point for small to mid-sized organizations. With limited availability of trusted storage vendors, you either have to pay triple your budget or hire a certified storage engineer to build and manage your storage appliance. We offer you another option. Wasabi Systems is a leader you can trust for lower cost storage, but with all the advanced features you want in your storage environment.

Support You Can Reach

We provide a comprehensive support to help you with installation and technical storage configuration consulting services. Wasabi engineers help you plan, implement, and optimize storage solutions specific to your storage environment.