Affordable Server Redundancy Designed for Remote and Branch Offices

Intel® RAID High Availability Storage Powered by LSI® Syncro™ Technology Delivers Highly Affordable and Secure High Availability of Business-critical Applications

The High Availability Challenge

For any organization with multiple offices and/or remote branch offices (ROBO), a high availability (HA) system for data-intensive applications is critical to maintaining revenue streams, ensuring uninterrupted productivity and preserving ongoing customer satisfaction. However, HA typically requires having locally redundant servers with full data protection which has been too expensive, complex and overall impractical for many organizations.

Intel® RAID High Availability Solution

Now with Intel® RAID High Availability Storage solutions, powered by LSI® Syncro™ Technology, ROBO environments can get a redundant server/storage configuration without costly or complicated failover provisions and storage area networks (SAN). Intel® RAID High Availability is designed to ensure that if a server fails, availability is maintained via automatic and seamless failover to the backup server. HA can be enabled by simply implementing a hardware key software upgrade to existing Intel RAID controllers which can reduce the cost of building high availability server clusters by 60 percent and increase performance by 25 percent.[1] ROBO sites can house their data locally without having to rely on centralized storage accessed via WAN connections that can increase response times and be cut off by network outages. Plus, ROBO sites can easily and cost-effectively support redundant servers running external "JBOD" storage or create a server "cluster-in-a-box" (CiB) with internal storage protected by a stout RAID controller to deliver a robust server failover solution at a fraction of the cost of SANs.

Intel® RAID High Availability provides direct attached storage (DAS) protection for critical data and applications including transaction processing, inventory management, claims processing and more. It's a cost effective way for remote or branch offices to get both business continuity and robust data protection, without the need for onsite technical expertise.

Intel® RAID High Availability utilizes Microsoft's experience in managing clustered server environments via the Windows operating system, with Intel's expertise delivering highly scalable and sharable storage and RAID interconnect technology.

By providing fully redundant application and shared storage failover for two-node server CiB systems or two rack-mounted servers running external JBOD storage, the Intel® RAID High Availability solution features a number of HA, RAID data protection and SSD optimization features:

- Dual active HA with shared storage across two server nodes
- Server storage cluster HA topology support
- RAID levels 0, 1, 5 and 6
- RAID spans 10, 50 and 60
- Auto resume after loss of system power during array rebuild
- Single controller multipathing and load balancing
- Write back HA cache mirroring
- Intel® RAID SSD Cache is included in order to allow for the optional use of Solid State Drives as a large cache pool for the RAID controller
- LSI® FastPath technology is included for solutions that include SSD arrays. FastPath optimizes data transfer paths and error check routines to allow for low latency, high IOP performance

Key Benefits

- SAN-like shared storage and failover capabilities at DAS price points
- Combines server redundancy with RAID data protection to run mission-critical applications locally
- Enables Windows Server High Availability Capabilities and Cluster Topologies
- Reduces the cost of building high availability server clusters by 60% and increases performance by 25%
- Simple software upgrade to existing Intel RAID controllers

Summary

ROBO sites now have a highly affordable, secure and simple HA solution that makes server redundancy easier to deploy and operate with Intel® RAID High Availability. This simple software upgrade to existing RAID controllers helps ROBO sites ensure uninterrupted productivity and preserving ongoing customer satisfaction. Plus, it greatly reduces the need for additional IT expertise while delivering robust server redundancy and data protection at a fraction of the cost of traditional ROBO configurations.

For ordering information and configuration guidance, please visit: www.intel.com/go/RAID