



Product Brief

Intel® Storage Systems
(SSR212MA, SSR316MJ2)

Storage

Backup and Recovery

Intel® Remote Data Protection Package

The Intel® Remote Data Protection Package is an upgrade to the Intel® Storage System SSR212MA and Intel® Storage System SSR316MJ2 SAN software that offers affordable, easy-to-manage, off-site backup and recovery capabilities for businesses of all sizes. Based on the Internet SCSI (Small Computer System Interface), or iSCSI, protocol, the package enables data volumes to be copied over an Ethernet technology-based network or the Internet to a secondary location.

Features of the Remote Data Protection Package support the data redundancy and high availability capabilities needed to fully address requirements for business continuity. Applications include:

Backup and Disaster Recovery. The Remote Data Protection Package allows businesses to build an affordable, easy-to-manage IT infrastructure to support business continuity through the use of a remote facility for backup and disaster recovery.

Data Distribution. Many geographically-distributed companies need a way to disseminate up-to-date content to local offices on a regular basis. The Remote Data Protection Package provides simple, automated distribution capabilities for content such as current pricing information or revised human resources policies, offering users local access to essential data.

Database Redundancy. Secondary, remote snapshots of data volumes can help ensure continuous access to critical data by database applications such as Microsoft* Exchange Server* and Microsoft* SQL Server*. If a primary data volume becomes unavailable, a failover mechanism allows the server to immediately access data from a secondary snapshot on site or at a remote location.



Implementing an off-site backup system for disaster recovery

The Intel Remote Data Protection Package supports an automated data archiving process in which volumes are remotely copied to a secure secondary site, as shown in Figure 1. Tape backups can then be created and stored at the secondary site for long-term archival and disaster protection. Businesses no longer need to

physically move backup tapes to a secure facility and can consolidate backups from multiple facilities at one location.

While this type of redundancy can be implemented within a facility, site redundancy helps preserve business continuity by adding another layer of protection from disruptions due to natural disasters and outages affecting an entire site.

Using the remote copy feature for data distribution and database redundancy

The Intel Remote Data Protection package enables the contents of one or more selected primary volumes to be copied to a remote system at a facility in another location. An administrator schedules the operation or initiates copies as needed.

When the remote copy operation is initiated, a snapshot is taken of the primary volume to minimize the risk of data loss due to an asynchronous data transfer. The snapshot is then copied to the remote volume at the secondary site, as shown in Figure 2. After a complete snapshot of a volume has been copied to the remote site, incremental changes can be copied in subsequent remote copy operations.

The features allowing volumes to be selected for copy and backups to be incrementally updated help lower costs by minimizing storage requirements at the remote site and reducing bandwidth requirements for transferring data.

Figure 1: The Intel® Remote Data Protection package enables off-site data archiving to help preserve business continuity in the event of a disaster.

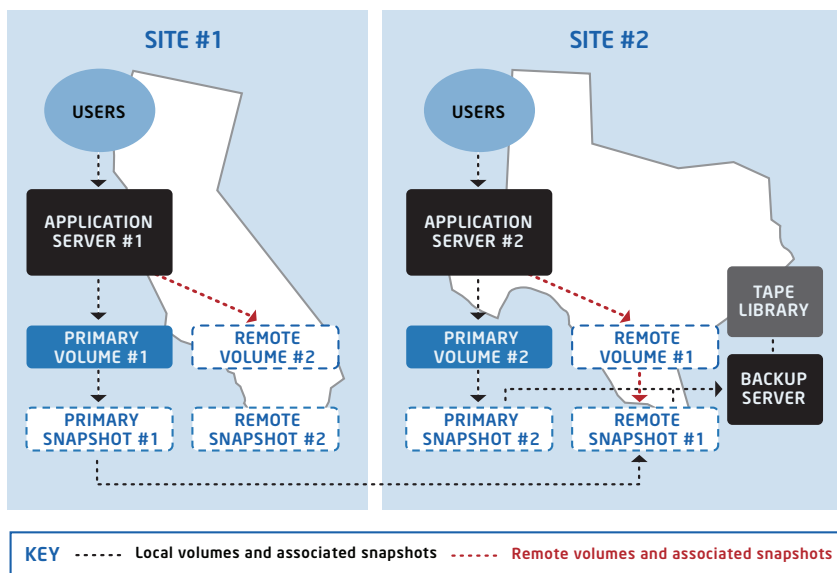
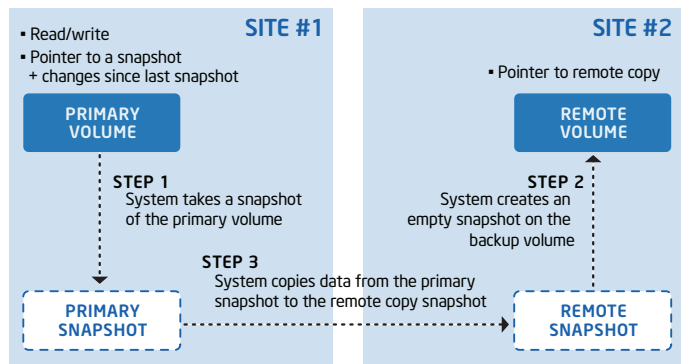


Figure 2: The Intel® Remote Data Protection package enables remote copy operations of selected volumes with incremental updates.



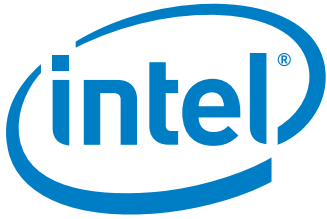
Intel® Storage Systems

Intel® Storage Systems simplify storage area network (SAN) management with fully integrated, feature-rich SAN management software. Intel has combined simple-to-use SAN management tools with services previously available only in high-end storage solutions—such as advanced provisioning, failover, remote copy, and snapshot capabilities—to ensure that the data that resides on your SAN is always available, scalable, and easy to maintain. Intel Storage System products include:

- **Intel® Storage System SSR212MA.** Features a single Intel® Xeon® processor, support for up to 12 Serial ATA (SATA) hard drives, iSCSI or optional Fibre Channel connectivity, and intuitive SAN management tools.
- **Intel® Storage System SSR316MJ2.** Features dual Intel Xeon processors, support for up to 16 SATA hard drives, iSCSI or Fibre Channel connectivity, and intuitive SAN management tools.

Available software upgrades

Scalability Package	Supports clustering of Intel® Storage System modules
Configurable Snapshot Package	Automates snapshot process for backups
Remote Data Protection Package	Allows data to be asynchronously replicated across sites



For more information

For general information about Intel® storage systems, visit:

www.intel.com/products/server/storage/index.htm

For current product information about the Intel® Storage System SSR316MJ2, visit:

www.intel.com/design/servers/storage/ssr316mj2

For current product information about the Intel® Storage System SSR212MA, visit:

www.intel.com/design/servers/storage/SSR212MA