

Small businesses to large scale enterprises all require flexibility in their IT infrastructure. The latest trend in efficient utilization of hardware resources through consolidation by means of virtualization. ITRENEW understands the importance of hardware consolidations and offers hardware storage solutions that integrate hardware accelerators to offload precious CPU cycles from the host servers.

Incorporating ITRENEW storage solutions within a hypervisor deployment plan will provide ample return on investment through normal production mode as well as through restoration/failover from a native disaster recovery scenario.

Consolidation Features	Benefits
Storage Arrays with Redundant Controllers and FRUs	<ul style="list-style-type: none"> No single point of failure to maintain uptime – redundant controllers, cooling units, power supplies, disk drives, data paths, and active/adaptive cooling planes
Firmware and Hardware Design for 99.999% Uptime	<ul style="list-style-type: none"> Intelligent firmware and policies to assess the best possible data paths through ALUA Non-disruptive firmware and software updates for no service downtime Hardware and Mechanical designed for 40°C operating temperatures Self-healing process for failing disk drives Proactive disk copies from failing disk members to prevent critical storage volumes and avoid disk rebuilds
Storage Volume Snapshots	<ul style="list-style-type: none"> Scheduled volume snapshots to help roll-back data to known good states to protect against overwritten data, changed data, or viruses
Local and Remote Volume Replication	<ul style="list-style-type: none"> Complete volume replication within a local storage array or to a remote offsite storage array for disaster recovery Volume replication for transparent performance tuning – online migration of data from an underperforming volume to a performance tuned volume without downtime and improves data availability without downtime
VMware VAAI support (ESX 4.x and ESX 5.0)	<ul style="list-style-type: none"> Fast/Full Copy primitive – VM creation process is 10-15x faster with substantially less CPU Write Same/Zero primitive – Offloads FC fabric and CPU by more than 95% Hardware Offload Block Locking – Can host more VM's per physical LUN through efficient BLOCK LOCKING opposed to LUN LOCKING
VMware SRM support (ESX 4.x and ESX 5.0)	<ul style="list-style-type: none"> Native CERTIFIED support for VMware Site Recovery Manager (SRM) Native CERTIFIED support for VMware Site Recovery Adapter (SRA)
Thin Provisioning	<ul style="list-style-type: none"> Storage can be partially provisioned upon deployment to hosts as volumes fill at a faster rate than planned, the under provisioned LUNs can dynamically expand on the fly. This saves time for when a volume becomes full and warnings are ignored