

There are many aspects relating to the storage needs of Media and Entertainment customers. Post-production editing requires high-throughput and extremely steady performance for uncompressed high-definition formats. The broadcast industry requires high-availability and disaster recovery/near mirrors for minimal transmission interruptions.

ITRENEW offers several features through products and services for these applications. The hardware and software algorithms have been tightly tuned for steady performance streams, quick failovers, and rapid mirror promotions.

Media & Entertainment	Protection Benefits
<i>Storage Arrays with Redundant Controllers and FRUs</i>	<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
<i>Firmware and Hardware Design for 99.999% Uptime</i>	<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
<i>Dynamic Caching Algorithms</i>	<ul style="list-style-type: none"> High-speed read monitoring mechanism for prompt analysis of incoming read requests will dynamically tune the prefetching of data to ensure a continuous steady stream of data
<i>Local and Remote Volume Replication</i>	<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
<i>Guaranteed I/O Response Thresholds</i>	<ul style="list-style-type: none"> Protection availability for slow responding disks - when the threshold has been exceeded, data is regenerated and given to the host independently of the hard disk drive error recovery or diagnostic mechanisms
<i>M&E Integration Screening</i>	<ul style="list-style-type: none"> For the M&E installations, HDDs undergo a rigorous integration test process that ensures a higher performance threshold