



Advanced Deduplication Technology Enhances Data Backup

Education Success Story | Township High School District 211



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Solution Highlights

Industry | Education

Protected Platforms

- Aging computing infrastructure
- Limited storage capacity

Solution

- Recovery 946S Backup Appliance

Benefits

- Simple backup and restores
- Deduplication
- Extended life of computing devices
- Peace of mind

Customer Profile

Township High School District 211 is the largest high school district in Illinois located in Cook County with seven schools, a current enrollment of nearly 11,600 students, and over 3,000 faculty members. As the enrollment continually increases, and they add programs, staff, and buildings to their campuses, the district's IT department is challenged with storing and managing a massive and growing amount of data.

The Challenge

Due to outdated technology in their installed devices, data backup compression and deduplication was needed but was not possible. In 2016, District 211 began an initiative to update their backup and replication technology, with a strict budget and a timeline.

The Solution

After discovery and assessment, MNJ Technologies recommended a Unitrends Recovery 946S backup appliance and replication to a DR infrastructure with a GFS (Grandfather - Father - Son) strategy for long term retention. While budget constraints and an incumbent vendor were factors in their decision, District 211 chose to proceed with MNJ's recommended solution.

Unitrends uses technology called Adaptive Deduplication™ that creates more efficient backup and capacity utilization for faster restores, archiving and replication. Adaptive Deduplication combines global byte-level deduplication and inline deduplication with source side deduplication (VMware), which together can reduce storage requirements by up to 95%.

- Global byte-level deduplication leverages all job content and incorporates a content and context sensitive, variable block-size deduplication algorithm to speed up backups, optimize storage capacity and improve WAN data transfers.
- Inline deduplicates data on ingest before writing to disk, eliminating the need for landing the data before deduplication, which greatly improves capacity utilization.

The Results

High School District 211 now has a robust and scalable backup and replication solution that will be in place for the next five to seven years. Unitrend's technology provides District 211 with fast deployment, reliability, and scalability and offers the added benefits of no limits licensing and unparalleled customer support.