

## Juan Diego Catholic High School Replaces Tape Archive with Disk Solution To Backup Its Mac Network

### CASE STUDY

#### INTRODUCTION

With more than 455 networked Apple Mac computers, Juan Diego Catholic High School, a private institution located in Draper, Utah, houses all their school data, including administrative data, and other school information. Juan Diego is part of the Skaggs Catholic Center educational enterprises composed of the high school, a middle school, primary school, and daycare center and supporting facilities.

Charged with maintaining and storing the valuable data assets of Juan Diego, along with the data from the other enterprises, is an IT department of just two employees. They keep the network of computers up and running as well as managing and protecting the storage and archiving of the school's critical data files. To facilitate the backup and archiving of information, Juan Diego purchased an \$8,000 backup system consisting of a virtual tape library on disk, 400-gigabyte LTO3 tape, and backup software from three separate vendors at the recommendation of a consultant. The result was that Juan Diego found itself in the undesirable position of owning a backup system that was extremely slow and oftentimes just didn't work.

"The biggest issue was that we didn't have a backup we could count on," said Jim Duane, Skaggs Catholic Center Director of Technology. "Not only did the backup take an inordinate amount of time – it would chug all day and night to get it on tape, it would regularly stall out and the backup would not be completed." In trying to solve the problem, the hardware manufacturer replaced the entire system twice and Juan Diego's IT staff spent countless hours on calls troubleshooting with the hardware vendor, software vendor and a third vendor that managed the offsite storage. A tremendous amount of time, money and resources were spent going back and forth between vendors trying to triage a system that just could not be made to work. After much frustration, the IT team determined the best solution was to start over from scratch.



Location: Draper, Utah  
URL: [www.jdchs.org](http://www.jdchs.org)  
Industry: Secondary Education  
Product: SENTIO™ Pro

## SEEKING HARDWARE, SOFTWARE AND SERVICES UNDER ONE ROOF

Following the trying experience of working with a system of disparate components built by three separate vendors, the primary criteria for the new backup system was that the IT team wanted to work with just a single vendor that offered everything – hardware, software and support services – under one roof.

Equally important, Juan Diego also needed a solution that worked with their Apple Mac network of computers. The Revinetix backup appliance was a solid fit.

“We've anticipated the growing demand for backup solutions that address the unique needs of Mac computer systems,” said Revinetix president and CEO Thomas Hogan, “The Revinetix product is designed to support Mac systems, and works very well in this particular application. We're actively developing new technologies that serve evolving Apple Mac data protection requirements.”

In addition, the team wanted to significantly increase the speed of backups over the day and night archiving cycle it had experienced with the

tape system and wanted assurance that the system could easily scale to keep pace with the school's projected enrollment increases. Juan Diego currently has 780 students enrolled in grades 9-12 with available capacity up to 1200 students. When looking ahead to enrollment growth and hiring faculty to support the growing student body scalability was of great importance. The legacy tape system maxed out at 400 gigabytes, so the IT team wanted a system that provided the flexibility to meet the needs today and increased demands in the future.

Lastly, the system needed to be modular so that if and when a component needed to be replaced, just that portion could be addressed without disabling and dismantling the entire system.

Revinetix, a turnkey data backup and recovery systems provider, also located in the Salt Lake City area, was referred to Skaggs. Revinetix has installations of its D2D2D® disk backup appliances in multiple K-12 and higher education institutions, health care facilities, and SMB/SME business in the U.S. and Canada.

The company and the systems met all the criteria set by Juan Diego. Revinetix configures its own backup appliances, develops the software that runs them and provides all service and support in-house. Its RAID Disk2Disk2Disk® disk-based appliances come pre-loaded with the advanced RevOS® software needed to backup the network and, with the capacity license, there are no additional site or user-based fees. The appliances are configured to be easily upgraded and hard drives can be quickly and easily swapped out in the case of a needed repair.

### BACKUPS THAT JUST WORK

Following an evaluation, Juan Diego Catholic School purchased a Revinetix Sentio backup appliance with the capacity to store 1.5 terabytes of compressed data and purchased three off-site archive drives with 1 terabyte of storage capacity each. When the school's needs grow, it will be quick and easy to expand to a backup appliance with a larger size capacity for the main backup drives and the archive drives.

“Out of the box, the storage capacity we had with the Revinetix system was much larger than what was available with tape,” said Duane.

The system has been installed now for a few months. The time savings with the Revinetix backup appliance has been tremendous. Since the switch from a virtual tape to archive tape system, to a pure disk-to-disk system, the time

to complete the daily backups has been reduced by 80 percent.

“Now our backups just work,” said Duane. “Since installing the Revinetix backup appliance, we have had no problems. Our nightly backup that took all night – when it did work – now takes only two to three hours a night.”

### SAVING TIME AND STORAGE SPACE

Tasks for Duane and Systems Administrator Eric Browning, have also been significantly streamlined and simplified with the new backup appliance. Backups are scheduled to run daily and the entire process is automated. Another time saver was being able to switch from needing to complete a weekly archive with the legacy tape system to now archiving on a monthly basis.

The demands for storage space have also decreased significantly. The space requirement for storing three monthly disks offsite, due to the new once-per-month archive schedule, versus storing 6 weekly tapes required by the old tape system, has been dramatically reduced and allowed for longer archival periods in months instead of weeks.

### ONE-CALL SERVICE AND REMOTE SUPPORT

When questions or issues with the system do arise, as they will with any system, Juan Diego's Jim Duane cites the most apparent change

between its working environment before compared to now is that any situation can be addressed with a single phone call. In addition, because Revinetix can remotely manage these devices, they can further streamline diagnosis and any repair needed on the system. This capability is included in the standard software maintenance agreement.

“Having Revinetix as our data storage partner truly provides me with peace of mind,” said

Duane. “I know if something happens, I can get in touch with someone right away who has the knowledge and resources to address any issue quickly and without the runaround.”

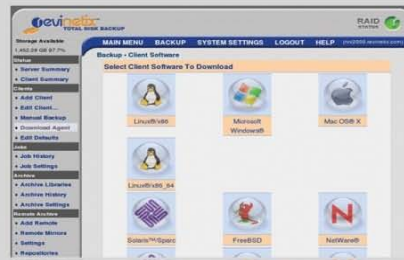
Juan Diego High School’s Revinetix backup appliance is now working so efficiently that the IT team of two has been freed to focus on other IT priorities for the Skaggs Catholic Center enterprise.

## ADVANCED DATA PROTECTION SOFTWARE

### ARCHIVE DISK REMOVAL



### SUPPORTED SOFTWARE AGENTS



### RAID CONTROL



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Jim Duane

Director of Technology  
Skaggs Catholic Center

## ABOUT REVINETIX, INC.

Revinetix provides innovative data protection solutions that ensure continuity of business, control of critical information and confidence in recovery systems. Revinetix offers the first total D2D2D® disk backup and recovery solution that allows automated backup schedules for every client on the network, including virtual machines, and allows critical data to

be stored safely off-site from a single network appliance. Features include data deduplication, replication, agents for Exchange and MS-SQL, and support for every major operating system. For more information, customers are encouraged to contact Revinetix at 888-264-5116 or [sales@revinetix.com](mailto:sales@revinetix.com) to locate a reseller in their local area.



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