Quantum®

Sprawling Multi-Campus School District Turns to Quantum for State-of-the-Art Safe Campus Solution

The safety and security of the children, teachers, and staff are Chico Unified School District's paramount concern. The security program is managed by the CUSD IT Department, with the systems, network analysts, and maintenance operations working together to manage and monitor the surveillance cameras, video management systems, and associated access control applications. The small IT team is also responsible for the inner workings of the entire campus infrastructure, including servers, storage, phones, door locks, student accounts, and staff communication, increasing the importance of streamlined operations and simplified management.

The existing surveillance infrastructure had reached a breaking point. The camera count continued to increase, the older Nimble SAN had run out of space, and performance was suffering. The SAN was dropping frames and critical data, and bandwidth was at capacity. Recording servers were spread all over the district, which required an exceptional amount of time and energy to physically maintain, taxing resources and increasing operational costs.

> "Every once in a while, you run across a system that is a true enterprise system that just works as it's supposed to. Quantum is one of those rare systems you don't have to worry about. We've been so completely satisfied. We're really excited to get our next appliance."
>
> **John Vincent**
> Director of Technology
> CUSD

FEATURED PRODUCTS

VS-HCI Series

SOLUTION OVERVIEW

- VS-HCI Hyperconverged Safe Campus Solution
- Milestone XProtect Video Management System (VMS)

KEY BENEFITS

- Consolidated storage, servers, and applications into one datacenter
- Streamlined operations, increased efficiency and reduced TCO
- Automated, centralized, and simplified management
- No system downtime or data loss
- Optimized performance and scalability

Upgrading to an Infrastructure Purpose-Built for Video

Funding from three sources was pooled to enable the CUSD team to upgrade the entire district to a state-of-the-art, enterprise-level security installation. The IT team evaluated several different storage alternatives, but none of them were adequate for a video-based workload.

The Quantum hyperconverged infrastructure stood out as the only solution designed specifically for mission-critical video environments. Chico USD purchased a Quantum VS-HCI Safe Campus solution totaling 1 PB usable storage, consolidating their video storage and management onto one infrastructure. The solution eliminated the need for individual recorders spread across hundreds of square miles and unified management into a single pane of glass within their VMware environment. Upgraded CPUs and the addition of a fourth node allowed them to increase their camera count, and the system stands ready to scale. The Quantum solution is flexible, and as the district adds more cameras or integrates more

applications, they can seamlessly build out capacity or compute to meet their evolving needs. "Quantum allowed us to double our deployment. And we're still growing," said John Vincent, director of technology. "We like that we can just drop in another appliance and expand."

Centralized Access to Video Always Available for Incident Response

The Quantum VS-HCI Safe Campus solution delivered on performance, price and scalability. The user-friendly interface is easily navigated by non-technical personnel and allows for easy, centralized access to video from any campus or facility at any time. Video is always available for situational awareness, dispatch and response, forensic investigations, analytics and more.

The Quantum solution can seamlessly scale compute, capacity and bandwidth with a single appliance or add storage-only appliances as more cameras are added across the district. And CUSD can integrate additional security applications and technologies to the infrastructure as budgets allow, helping to reduce TCO and avoid unnecessary expenditures or overprovisioning.

Quantum's professional services team installed the solution, eliminating the need for the CUSD to spend valuable time and resources to undertake specialized training or learn a new skillset to complete the installation. "The level of support from Quantum and the team's desire to give us the best product we can have is outstanding – the Quantum team has gone above and beyond," said Justin Cooper, information systems analyst. "I can't say how impressed we are with what a great team Quantum has."

The CUSD team reports a "night and day" difference in system performance. The Quantum solution is optimized for video-based workloads

> Video is always accessible, and patented erasure coding ensures there's no downtime, degraded or dropped frames, or data loss, reducing the district's risk and liability.

and significantly decreases capacity utilization. Video is always accessible, and patented erasure coding ensures there's no downtime, degraded or dropped frames, or data loss, reducing the district's risk and liability.

The CUSD team unanimously agreed that Quantum's smart infrastructure for mission-critical video had transformed the district to a state-of-the-art, enterprise-level security installation.

Quantum.