

Revelation Network Management, Inc. ([RevNet](#)) provides colocation, hosting, and related technical services for a website of a nationally recognized leader of addiction treatment services and education. The website, the most comprehensive online alcohol and drug education program for college students, currently reaches over 75 individual institutions, with an estimated 250,000 plus active users. As colleges and universities strive toward creating a safe and healthy environment, they continue to seek support in providing prevention programs, treatment options, and recovery support for their student body; this website provides interactive technologies that help people improve their lives through behavioral change.

Anticipating significant usage and growth in the coming months, RevNet worked closely with the Customer to ensure the service would perform well under an anticipated load increase. Knowing there was little or no time to complete a full hardware refresh, other options needed to be considered. Upon completing a thorough review, [Dave Williams, President/CTO of RevNet](#), proposed a solution based on [PernixData FVP software](#) to implement a decoupled storage architecture leveraging the existing infrastructure.

PernixData FVP software virtualizes server flash and RAM to create a low latency I/O acceleration tier across hosts. Using flash devices in the in-place [HP DL380 servers](#) as an acceleration medium, it delivers storage reads and writes locally to maximize virtualized application performance and creates a robust platform for scale-out storage performance. At the same time, the existing HP EVA storage array was utilized for capacity and data services, ensuring minimal disruption with no rip and replace headaches.

The client's website experienced serious speed improvements by moving the hosted database workloads to the RevNet VMWare hosts enhanced with PernixData FVP software and server-side SSDs. The table below illustrates the significant performance increases achieved during implementation and testing in the pilot environment.

Operation	Before PernixData FVP	After PernixData FVP	Improvement
Batch Delete	657 seconds	282 seconds	57%
Index reorg TS_TSID_VDT	234 seconds	139 seconds	41%
Index reorg IDX1_U_VDT	260 seconds	88 seconds	66%
Index reorg pk_ix_ST	999 seconds	441 seconds	56%
Jmeter Load Testing Run 1	365 per minute	600 per minute	64%

About Revnet:

RevNet Data Centers are strategically located approximately 50 miles north of downtown Minneapolis. Within our two Data Centers RevNet provides customized Hosting, Colocation, Business Continuity/Disaster Recovery, and Public-Private-Hybrid Cloud solutions. RevNet can also provide "hot/cold-sites" for Disaster Recovery (DR). With so many applications becoming mission critical, RevNet has become a go to source to provide hosted applications. These include inventory control, electronic medical records, student records, and enterprise web sites/applications. Each member of the RevNet Professional Services (RevPS) team has extensive professional services experience, directly consulting with organizational teams to deliver IT solutions. We specialize in IT Monitoring and Management, Infrastructure and Network Services, Identity and Access Management, Security, Project / Process Management, and Development.