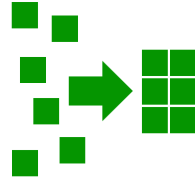


# SCPS SAVES \$80,000 AND FOSTERS INNOVATION WITH TURBONOMIC



*Assured Performance of  
Virtual Workloads*



*Effective Planning for  
Future Projects*



*Money & Time Reallocated  
to Strategic Pursuits*



## SITUATION

Supporting over 65,000 students, the team at Seminole County Public Schools (SCPS) is no stranger to the complexities of managing a virtualized infrastructure. The K-12 Florida school system faces particularly dynamic workload spikes during the months of August and September, when the school year begins. From supporting Student Information Systems (SIS), to facilitating mission-critical file transfers, to allowing for digital grade entry and reporting, a seamlessly functioning IT infrastructure is integral to enabling SCPS to fulfill the needs of its students, teachers and administrators.

Ken Richmond came to SCPS with a background in Hyper-V systems management, and found the task of managing an inherited VMware infrastructure with no prior experience to be quite daunting. "The knowledge gap for me was around best practices," Ken shared. "While I could administer just fine, design, architecture, monitoring and configuring were quite difficult."

Combining this difficult situation with pre-existing performance and connectivity issues, there was a clear need for a supplemental management platform. Intrigued by Turbonomic's unique economic scheduling engine, Ken downloaded and installed the technology to test its abilities in the context of his challenges.

"Within hours of installing, Turbonomic had already started to collect information and make suggestions to improve performance within our environment...the longer we let it run, the better off it was."

– Ken Richmond, Systems Analyst

In a matter of hours, Turbonomic had already provided the Network Operations team with valuable decisions to improve performance and eliminate problems from the SCPS environment, particularly with regards to memory congestion and IO utilization.

## COMPANY

**Seminole County Public  
Schools**

[www.scps.k12.fl.us](http://www.scps.k12.fl.us)

## CHALLENGES

- *Lack of insight and visibility into VMware environment*
- *Dynamic and unpredictable workload demand spikes during beginning and end of school year*
- *Performance problems stemming from IO and Memory congestion*
- *Inability to effectively plan for Hyper-V Migration*

## TURBONOMIC SOLUTION

- *Turbonomic intelligently and automatically senses changes to application demand and adjusts infrastructure supply in real-time to improve utilization and ensure service delivery*

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Following the initial positive results, the team decided to automate Turbonomic's recommended vMotions within scheduled windows throughout the day. Over the course of the week, many of the issues that had plagued the Network Operations team in the past began to disappear. "All of the performance complaints we were getting with regards to our applications were just going away," Ken shared. As time went on, the team began leveraging additional automation capabilities such as storage vMotions, seeing increased value almost instantly.

"Turbonomic helped us fix the problems we knew we had and ones we didn't know had solutions," said Ken. "It's helped us stretch our resources and doesn't require the district to hire a VMware specialist."

### LOOKING AHEAD WITH TURBONOMIC

Today, the team is focused on migrating their virtualization platform from VMware to Hyper-V, and uses Turbonomic to plan for this transformation. With Turbonomic's real-time capacity management simulator, Ken was able to determine the best course of action when migrating from old Dell hosts to new Cisco UCS blades, learning that they could consolidate from 12 hosts down to 3. "That discovery just floored everybody," Ken said, and will enable the Network Operations team to save nearly \$80,000. These funds can now be reallocated to new projects focused on innovation, such as collapsing and centralizing much of their remote site infrastructure to enable more unified IT management.

At SCPS, Turbonomic initially filled a knowledge gap, helping the team gain more intelligent insight into their environment. Now, it functions as a hands-off enabler and allows the team to maintain the health of the virtualized infrastructure with minimal effort so that they can continue to advance the platforms they leverage and the services delivered to end-users. As Ken explained, in a field as dynamic as education, the most valuable solutions allow IT teams to adapt to continuously changing demands. "The trick to IT in K-12 is that all of your solutions have to be flexible, and allow you to respond to business needs," he stated. "With Turbonomic, we can do just that."

### ABOUT TURBONOMIC

Turbonomic delivers an autonomic platform where virtual and cloud environments self-manage in real-time to assure application performance. Turbonomic's patented decision engine dynamically analyzes application demand and allocates shared resources to maintain a continuous state of application health.

Launched in 2010, Turbonomic is one of the fastest growing technology companies in the virtualization and cloud space. Turbonomic's autonomic platform is trusted by thousands of enterprises to accelerate their adoption of virtual, cloud, and container deployments for all mission critical applications.

### RESULTS

- *Autonomic platform drives real time performance across a diverse environment*
- *Realized value within days of deploying Turbonomic*
- *Enabled team to effectively manage VMware environment without specialized knowledge*
- *Saved team \$80,000 by showing how to remove 9 hosts from the infrastructure*

"Even with me not knowing much about VMware, what the workloads were or what performance should look like, Turbonomic enabled us to fix and prevent problems that we didn't even know we had, without having to hire a new team member or bringing in a specialist."

**Ken Richmond**  
Systems Analyst  
Seminole County Public Schools