PINE COVE CONSULTING

Innovative and Cutting Edge Tech

(image courtesy of wikipedia.org)

How Murray School District and Pine Cove Consulting worked together to build a first-in-nation internet plan for its students with Ruckus technology.

- Pine Cove Consulting and Ruckus worked with the district to provide LTE network connectivity via CBRS and refresh the district's switches.

The Client

Murray School District is more than 100 years old and is located in the heart of the Salt Lake Valley in Utah. The district is home to more than 6200 students and 800 staff members. The district hosts seven elementary schools, two middle schools, and a high school. Jason Eyre currently serves as the district's IT director and manages the district's technology with his team of six employees and eight student interns.

Even prior to the COVID-19 pandemic, Jason had a goal to ensure connectivity was available for all students in the district. As COVID-19 became more prevelant in early 2020, Jason expedited this goal and began working with Pine Cove Consulting on a first-in-nation internet plan to provide connectivity to students in their own homes.

"Pine Cove is one of my most trusted vendors. They are always quick to respond and they are helping our district be on the leading edge of technology."

Overview

Challenges

Jason had a goal to provide complete connectivity throughout the district. Many students in the district couldn't obtain reliable internet connection due to the high cost of connectivity in low income residences throughout the district. Even students who had connectivity in their home would often run into bandwidth limitations as their siblngs and parents also used the network for streaming, working, and meetings.

Jason had an ambitious plan to begin implementing a private LTE network for those students. He needed a trusted partner to assist.

Process

Jason started searching out vendors and partners to work with. He initially didn't have a lot of interest in Ruckus, but after meeting with the Pine Cove and Ruckus team, he discovered the CBRS solution could be the means to help him achieve his connectivity goals.

Pine Cove, Ruckus, and the school district worked together to first update the district's switches and then plan how they were going to imlement this first-in-nation internet plan for the students.

Solution

Murray School District purchased radios, antennas, and SIMs to begin the process of providing LTE network connectivity via the CBRS spectrum to apartment buildings and homes in the district. They are currently only providing Wi-Fi to the apartment buildings but may eventually upgrade to LTE. The district has already deployed access points to 10 apartment buildings throughout the district.

The Story

IT Director Jason Eyre aspires to provide connectivity to students throughout the district. In order to do this, he ventures to provide LTE network connectivity via the CBRS spectrum to apartment buildings and homes in the district. Pine Cove and Ruckus have worked with the district to assist him in acheiving this goal. Solutions implemented by Pine Cove included:

- Switches
- CBRS
- Smartzone Controller
- LTE Hardware

"Pine Cove helped us implement a simple and effective solution. We appreciate Pine Cove moving us in the right direction."

Jason Eyre, IT Director
Murray School District

Q&A with Jason

1 Q: Describe your LTE project and what you hope to accomplish?

A: This is a project that I was working on at a previous job trying to get LTE to students' homes. When I came to Murray, I found the need here just as much as it was in rural Garfield County. We focused on what the LTE could do for us on our campus. We set up an LTE network to use for our security cameras and also for teachers. Once the pandemic hit, we wanted to extend that network to students' homes, but we just didn't have enough capacity, and the radios weren't geared, right. We've begun implementing what is currently available on the market to address the problems of the pandemic. Pine Cove was able to secure the next model of radio from Ruckus for us so we can start reaching into students' homes. We have pointed that radio at one of the nearby apartment buildings and have started deploying devices to students in that building. We plan to use this technology to support the more than 500 student households with more than three kids. This will ensure that those kids have adequate bandwidth to complete their schoolwork.

2 Q: What has been your experience with the Pine Cove Team?

A: I consider Pine Cove to be one of my most trusted vendors. I appreciate the response I get when we when we need things and I appreciate their ability to help us be a cutting-edge district. They've helped us implement one of the first 10 gigabit to the desktop classrooms in Utah. Pine Cove and Ruckus have helped us implement a 10 and a 40 gigabit backbone for part of our system. With our LTE efforts, Pine Cove has been an excellent intermediary between our district and the Ruckus team. Overall, Pine Cove has been extremely supportive in all aspects of our relationship.

(image courtesy of deseret.com)

www.pinecc.com

PINE COVE
C O N S U L T I N G

We are dedicated to providing our clients the very best that technology has to offer. We personalize our services for each individual client by completing a comprehensive assessment.

Our Process

- Assess Current Technology
- Identify Improvements
- Review Technology Possibilities
- Implement Personalized Solution

Technical Background

- 30,056 Cyber-Attacks Stopped Daily
- 20,103 Users Currently Supported
- 2,527 WAPs Installed
- 2,008 Server Installs/Configs
- 35 Technical Certifications
- 26 Years of Experience

SOPHOS SECURITY AWARDS 2016 WINNER
Complete Security Partner of the Year
Pine Cove Consulting

SOPHOS SECURITY AWARDS 2017 WINNER
Q2 Partner of Quarter
Pine Cove Consulting

CHANNEL SECURITY AWARDS 2018 WINNER
Rising Security Star Award
Pine Cove Consulting

Contact

- Sales@pinecc.com
- pinecc.com/contact
- www.pinecc.com

Our Solutions

Cyber-Security   **Communication**   **Infrastructure**

Where We Work

We work with businesses, government agencies, and educational institutions across the rocky mountain region. We have employees stationed across the region ready to assess and address your technological needs.

● Client   ★ Pine Cove Employees/Office locations