

VALL Technologies is instrumental in delivering CBRS private LTE network and free broadband access to students of St. Vrain Valley School District (SVVSD) in Longmont, Colorado

CUSTOMER:

VALL Technologies, a private wireless and managed IT network solutions provider

END USER:

St. Vrain Valley School District (SVVSD) in Longmont, Colorado

PRODUCT:

BEC GigaConnect® 6500AEL Series of CBRS Multi-Service LTE Routers

APPLICATION:

CBRS Fixed Wireless Access (FWA)

DATA CONNECTIVITY:

CBRS Private LTE Network

RESULTS:

By deploying the BEC 6500AEL Series of CBRS LTE Routers, St. Vrain Valley School District (SVVSD) is closing the digital divide in its community

The Customer

VALL Technologies is an innovative company, specializing in private wireless and managed IT network solutions. The company designs, deploys, and manages advanced wireless solutions for complex data, voice, and video communication requirements. Founded in 2011 and headquartered in Colorado, VALL Technologies has provided services to Fortune 500 corporations and public sector organizations.

Background

St. Vrain Valley Schools (SVVSD), Colorado's 7th largest school district, and the city partnered to bridge the digital divide for their community. District officials decided to use CARES Act funding to build a private wireless network to provide free broadband service to 4,000 low-income students in the district. To support this effort, SVVSD called upon the City's municipal fiber provider, NextLight, who enlisted the wireless network design expertise of VALL Technologies, a Colorado-based private wireless and managed network firm.

Challenges

Typically, school districts' most significant challenge when deploying a private wireless network is identifying and securing funding; however, the CARES ACT funding helped significantly. Other challenges include:

- Feasibility studies
- Wireless technology choice
- Infrastructure support
- Finding adequate network resources
- Equipment acquisition
- Securing technical expertise to manage and deploy the network

NextLight and VALL Technologies worked together to address all the challenges by leveraging NextLight's existing fiber footprint for cell site backhaul and VALL's expertise to design a private wireless network, providing enough capacity and coverage using the CBRS spectrum.

How BEC's Solution Helped

VALL Technologies selected the BEC GigaConnect® 6500AEL Series of CBRS Multi-Service LTE Routers. The routers are designed for fast deployments and support zero-touch provisioning, allowing hassle-free self-installation whereby the students simply power on and instantly connect. The 6500AEL provides robust connectivity over CBRS with carrier aggregation for increased data rates, Wi-Fi 5 802.11ac, 4-port Gigabit Ethernet, and strong firewall security. In addition, the 6500AEL delivers persistent connectivity and data rates up to 50 Mbps downlink, providing more than enough bandwidth for students.

Results

The network now spans 38 cell sites, roughly half of the City of Longmont, covering about 50% to 60% of the four thousand students. With additional funding, SVVSD will build more sites along with coverage expansion. The SVVSD partnership with the local government and other public/private entities has positively impacted the students.



BEC 6500AEL CBRS Multi-Service LTE Routers

Free Specialist Advice Available

For more information and advice, please call us at 972-422-0877 or email our sales team at sales@bectechnologies.net.