



The Situation

Recently, Last Mile Gear worked with Yakama Nation to resolve major wireless network deficiencies. Last Mile Gear is a wireless equipment distributor and installer specializing in providing clients with custom connectivity solutions.

Yakama Nation is a tribal government that serves consumers and businesses that reside on tribal land. The tribal leaders are tasked with providing their constituents with reliable internet services and other utilities.

Prior to working with Last Mile Gear, Yakama Nation had a 5GHz network that was providing service to their customers. That network could not meet the client's needs or those of its constituents.

Specifically, the hardware deployed by the service provider could not adequately support a large volume of customer connections at the requested bandwidths.

Potential Barriers

When taking on the project, Last Mile Gear faced three significant challenges. First, they were tasked with developing a robust, easily scalable solution. The scalability of the network was a major concern for the client due to the sheer scope of the upgrade.

In addition, Last Mile Gear had to minimize the outage experienced by consumers when they activated the new solution.

The third hurdle involved overcoming a tight deadline. Yakama Nation was extremely dissatisfied with the level of service they were receiving from their current manufacturer's solution. Therefore, they wanted to expedite the conversion process.

Last Mile Gear's Sales Engineers worked closely with Yakama Nation Networks in order to thoroughly plan out each phase of the project in order to overcome these potential barriers to success. They had to mitigate the risk of potentially costly delays while deploying new resources as efficiently as possible.

Facilitating Digital Equity with Cambium Networks

Yakama Nation is extremely passionate about providing their end-users equitable access to digital resources, including reliable internet services. Throughout every phase of the project, Last Mile Gear worked hand-in-hand with the client to help them accomplish their mission.

Together, the two parties designed a wireless broadband solution that included expertly managed services and cutting-edge technology.

At the center of this comprehensive strategy was Cambium Networks hardware. The design team at Last Mile Gear knew that Cambium Networks technologies were the ideal solution for such a large-scale project.

Last Mile Gear proposed the use of several Cambium 450m 3GHz access points. These access points were supported by subscriber modules. Cumulatively, these components provided the client with increased transmit power, better network stability, and a faster customer connection rate.

A Seamless Installation

Before performing a large-scale deployment, Last Mile Gear helped design and facilitate a trial phase. A limited number of components were deployed so that they could test the solution in a real-world environment. After fine-tuning their strategy, Last Mile Gear was able to ensure quality signal coverage of the entire region.

Last Mile Gear and Yakama Nation were able to deploy the entire network in just four months. They have continued to monitor the reliability and performance of the new network.

By tracking key performance metrics, Last Mile Gear discovered that the network has significantly improved the user experience when compared to the previously used solution.

Keys to Success

Last Mile Gear identified the following three factors as the keys to a successful network deployment:

Quality Partners

Without the support of quality partners like Cambium Networks, Last Mile Gear would not have been able to provide Yakama Nation with such a dynamic solution. The two entities maintained clear lines of communication throughout the project. They also set clear expectations regarding product capabilities and the delivery of services.

A Great Plan

Despite the fact that the client was eager to transition to new services, Last Mile Gear's deployment team took the time to plan every detail of the deployment. They worked closely with Cambium Networks to address important issues such as the actual deployment and ongoing network maintenance.

Strategic Deployment

Last Mile Gear leveraged a "measure twice, cut once" approach to this project. This approach allowed them to ensure that all facets of the project exceeded the client's expectations.

The network provided higher quality service and a better user experience than the previous solution. The project was also completed within the budgetary restrictions set forth by the Yakama Nation.

If you would like to learn more about the technology behind this project, contact Last Mile Gear's Sales Engineers by calling 866-230-9174 or visit us at lastmilegear.com.

Why Last Mile Gear Chose Cambium Networks

The hardware was one of the most notable deficiencies of the client's previous network. In light of this fact, Last Mile Gear wanted to ensure that they provided Yakama Nation with top-end connectivity technologies. That is why they partnered with Cambium Networks for this project.

Cambium Networks connectivity solutions offer:

Scalable Solutions

When covering a large area, such as this client's various tribal regions, it is vital that the network is scalable. Cambium Networks' 450m 3GHz access points can easily be connected with one another. They can also be linked to subscriber modules and other wireless equipment.

As the client's needs evolve, Last Mile Gear can easily expand the network by deploying additional components. This scalability will be particularly beneficial, as the client will potentially experience economic growth in the coming years, which will increase demand for internet services.

High Output Capabilities

The Cambium Networks' 450m 3GHz access points are not only easy to scale, but they are also extremely powerful. They can emit a very strong signal while simultaneously supporting many customer connections. This capability will directly benefit the experience of end-users.

A Low Cost of Ownership

Cambium Networks hardware is known for its durability and minimal maintenance requirements. These two attributes translate to a low cost of ownership, as the devices will rarely need physical repair or replacement.

This robustness means that the Last Mile Gear managed network will provide Yakama Nation with reliable and budget-friendly internet services for years to come.

Easy to Manage

The technology deployed by Last Mile Gear is supported by Cambium Networks' remote management software. This software allows Yakama Nation or Last Mile Gear to monitor network performance in real-time. They can use this data to identify connectivity concerns and improve the overall capabilities of the network.