



Enabling you to connect.®

Case Study

Wireless/Wi-Fi & Switching

With a new 74-acre parcel of land and a vision to create a new sanctuary that will house nearly 2,000 attendees each week, Whitewater Crossing chose Powernet as its primary IT provider to develop a better network as they design and build their new 45,000-square-foot facility.

Bigger & Better

Powernet first began their work with Whitewater Crossing in 2013 by installing multiple Wi-Fi access points throughout the church. Pleased with the service provided, Whitewater Crossing reached out to Powernet to assist in other facets of their IT needs, leading to the replacement & management of their data switches. The church had a vision of the future and in this they decided to relocate and build a 45,000-square-foot sanctuary on the 74-acre piece of land they had recently acquired in Cleves, OH.

Due to Whitewater Crossing's successful partnership, they decided to bring Powernet in on the ground floor to assist in their technology transformation. During the design and build phase, Powernet stayed involved planning the IT infrastructure to ensure the appropriate components were included that would support the underlying network. This is critical in order to establish a strong foundation for the end user's applications and services. With the increasing demands on the IT infrastructure Powernet engineers needed to ensure that it was also reliable and secure. Doing so would proactively help increase network efficiency and significantly reduce network congestion resulting in higher end-user satisfaction.

Installation & Activation

After the construction was complete Powernet engineers conducted site surveys to determine the locations for the additional access points that would provide an optimal solution for the Wi-Fi to perform at peak capacity. Utilizing multiple Ruckus high performance Wi-Fi access points with adaptive antenna technology Powernet was able to deliver industry-leading performance and reliability.

Mega Church chooses
Powernet to Design & Build
IT infrastructure in new
45,000-square-foot sanctuary



Whitewater Crossing Christian Church

Industry: Service; Religious & Spiritual

Number of Attendees: 1,920 per week

Challenge

- Design IT infrastructure in new 45,000-square-foot sanctuary that will support nearly 2,000 attendees per week
- Replace old, out-dated technology from previous IT vendors

Solution

- Install Ruckus Wi-Fi, update & add APs
- Replace data switches to accommodate business and service needs

Results

- Successfully installed Ruckus Wi-Fi & access points to accommodate growing attendance
- Successfully updated and installed Brocade data switches & continue to manage the service

As their technology transformation continued Powernet replaced Whitewater Crossing's outdated switches with Brocade 7250 Series Switches which offers seamless interoperability with Ruckus Wireless products to deliver consolidated wired and wireless network access.

A Boosted Experience

With the communities satisfaction in mind, Whitewater Crossing turned to Powernet to determine the equipment necessary to boost the cellular service for their 40+ employees and nearly 2,000 attendees each week. After successfully completing the site survey and testing the cellular service levels over the 74-acre land Powernet engineers, along with Whitewater Crossing staff members agreed upon the installation of the Force5 cellular signal booster. The award winning Force5 has the ability to boost voice, text and 4G LTE signal strength up to 100,000 square feet while balancing incoming signals, preventing shutdown and maximizing performance. This booster also comes equipped with integrated remote access to ensure that Whitewater Crossing staff members can optimize signal strength while off site.

The Final Touches

In order to provide their employees and attendees with the most reliable and efficient service possible, Whitewater Crossing implemented Powernet's managed service components for both Ruckus Wireless and the Brocade 7250 Series Switches. The network management was put in place to ensure all systems are highly available, operating at peak performance and secured to ensure data integrity and compliance.

Whitewater Crossing and Powernet have maintained and developed a lasting relationship over the past years. "The transition into the new sanctuary has been a long journey while also trying to develop our digital platform" Andy Staley, IT Director at Whitewater Crossing, said. **"Because of everything they have to offer, working with Powernet has taken us from fourteen IT vendors to only two!"**

About Powernet

Powernet enables businesses to connect with audiences in the office and across the world through wireless networking, Wi-Fi, voice, data, IT managed services, in addition to domestic and international carrier services. As a Woman-Owned business with more than 24 years of telecom experience and expert sales and support teams, we provide our partners and clients the unparalleled service and innovative technology they need to achieve their business goals.

Contact us for more information:

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