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Steven Vickers

Vick Houston's® Companies
Newport Beach, CA

Challenge

To create a wireless network for both residential and commercial use at a multi-building property with glass, steel, and concrete infrastructure

Solution

TRENDnet's business routers, access points, AP controller, and PoE switches to provide seamless wireless internet and building-to-building connectivity

TEW-829DRU
TEW-840APBO2K
TEW-825DAP
TEW-WLC100P
TPE-TG160G
TPE-LG80

TRENDnet Enhances Commercial and Residential Connectivity at the Newport Beach Vineyards and Winery

The Challenge

The Newport Beach Vineyards and Winery grows, harvests, and matures their award-winning wine on a four-acre property in the Orange County area of Southern California. While used for both residential and commercial purposes, more than a third of the property is covered with 1,200 vines of high-quality red wine grapes. This winery specializes in hosting special events with wine experts in a one-of-a-kind setting in the picturesque Upper Newport Bay.



The team at Vick Houston's® Companies was hired to repair and upgrade the existing networking infrastructure. With the property being utilized for both business and as a residential property for the owners of the Newport Beach Vineyards and Winery, one challenge was isolating the residential network, while still providing wireless access to the commercial buildings. The second challenge was to find a solution for the wireless obstructions caused by the glass, steel, and concrete infrastructure of the buildings that impeded overall wireless performance. And the third challenge was finding a cost-effective solution to connect the networks of two buildings together.

The Solution

For internet access at multiple locations, TRENDnet's Tri-Band Wireless Gigabit Dual-WAN VPN SMB Routers were installed in both the commercial building and the residential building. By using two Internet lines and VLANs, the commercial and residential networks were kept separate, while still providing the residential building access to the commercial office's network.

Wireless access points (WAP) were added to provide wireless Internet access throughout each building. By combining TRENDnet's Tri-Band PoE+ Indoor Wireless Access Points with the PoE+ Wireless LAN Controller, uninterrupted connectivity is provided while moving throughout the building due to seamless WiFi roaming technology; it smooths the transition from one AP to the next AP throughout the building.

The placement of all the wireless access points was completed very strategically due to each building's glass, steel, and concrete infrastructure. A comprehensive wireless site survey helped to identify the ideal locations and channel selections for each WAP that provided the best performance with the least amount of obstructions and interference.

To avoid the need of an electrician, TRENDnet's Gigabit PoE+ Switches were used to power the PoE access points. For WAP locations more than 100m away from a power source, TRENDnet's Gigabit Long Range PoE+ Switches were installed and could be utilized up to 200m away from the WAPs. Switches with a higher port count were installed for future scalability and network expansion.

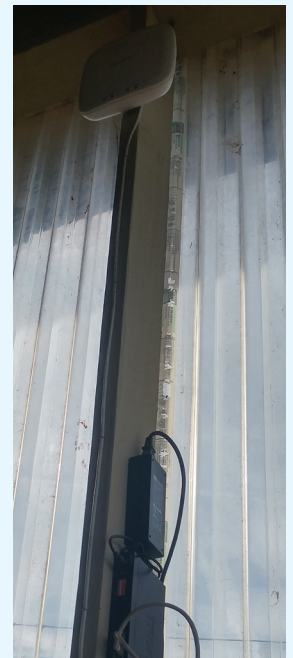
Connecting the commercial and residential networks together was simplified with the use of TRENDnet's WiFi AC Outdoor PoE Preconfigured Point-to-Point Bridge Kit. This bridge kit works right out of the box and requires no additional configurations before setup.

The Result

"TRENDnet was an easy choice for us because of the price point and quality. We also pre-tested all the TRENDnet equipment at our shop and it passed all our rigorous testing. There are no bad habits, and I really love the large backbone of gigabit switches available.

The point-to-point bridge kit made for delivery of extremely fast Internet, ultimately saving everyone the time and cost of running any wiring. The client told us that the winery has never seen these kinds of speeds on its network before, around 800Mbps with the WiFi bridge. The customer is very pleased and he already has plans for us to return for future property expansions, including the newly built home on the property."

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