MCAS Miramar AirShow
— September 22 - 24, 2017 —

"Public safety is our number one priority.
TRENDnet's product line is solid. The equipment is both simple to install, and easy to use. We knew we could rely on TRENDnet's product line and expertise to help us setup a temporary, but dependable camera network."

Gabe Pacheco
US Border Patrol (USBP)
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Challenge

To provide a temporary camera system for the Miramar Air Show parking areas.

Solution

A combination of TRENDnet IP cameras, indoor and outdoor wireless access points, PoE switches, and hardware controller were implemented in key points throughout the parking areas.

TV-IP314PI
TV-IP315PI
TEW-825DAP
TEW-WLC100
TEW-740APBO2K
TEW-734APO
TPE-TG80g
TRENDnetView Evo

TRENDnet Assists Marine Corps Air Station Miramar Air Show

The Challenge

The MCAS Miramar Air Show is an event held over three days at the Marine Corps Air Station Miramar. First opened in 1955, the air show takes place every year as a part of Fleet Week in San Diego. The event is the largest military air show held in the United States with an attendance of more than 700,000 guests.

CBP Tech partnered with the US Marine Corps, and was tasked to setup a temporary camera system to monitor parking areas in and around the Miramar Air Show. Wireless connectivity was required at multiple stations to allow stakeholders to view camera footage from mobile devices.

The Solution

The CBP tech team determined the need to create a private wireless network, isolated for the parking areas. TRENDnet's outdoor access points, supporting 2.4GHz and 5GHz bands respectively, were utilized to reduce the amount of interference received.

At each camera installation point, a TRENDnet 8-Port Gigabit PoE+ Switch was used in conjunction with TRENDnet PoE cameras to allow multiple cameras to each receive both power and data from a single source. TRENDnet's weatherproof, 4-megapixel cameras were used to ensure the highest quality image suitable for the unpredictable weather. Live day and night video footage was then streamed to a command center via outdoor wireless bridges.

All camera footage was managed by TRENDView Evo camera management software. CBP Tech integrated TRENDnet equipment with a third-party vendor, using an unlicensed wireless frequency, for the backbone. Outdoor access points supporting the 5GHz band were configured to bridge and branch out between locations.
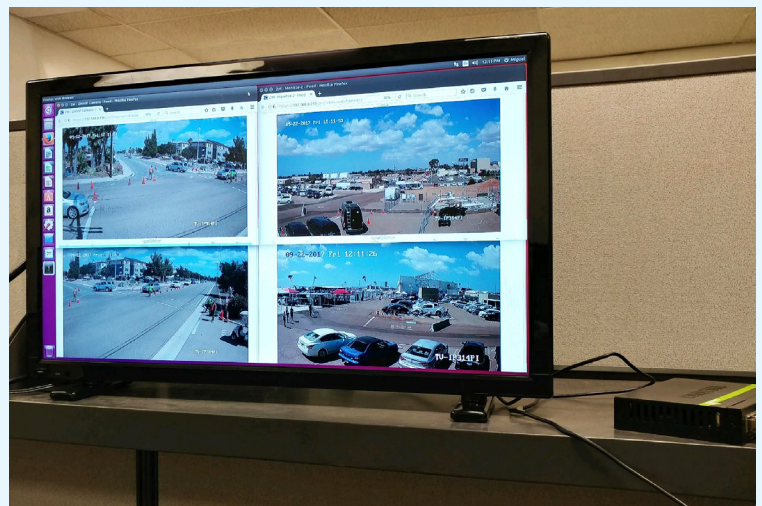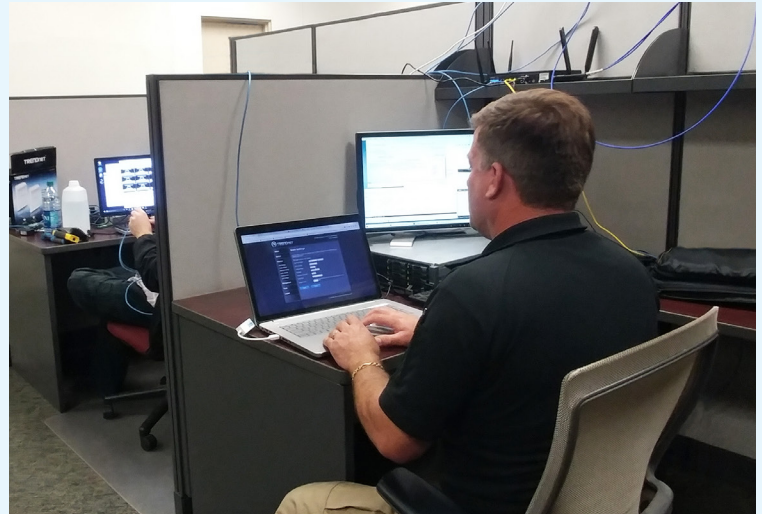
Dual band indoor access points were strategically placed throughout parking areas, allowing parking enforcement members to view live camera footage remotely on mobile devices. Dual band access points accommodated mobile devices operating at different bands. A wireless controller was used to install and configure each indoor access point.

Note: Due to the temporary nature of this project, this setup is not recommended as a permanent solution. However, the indoor access points did withstand some rain and continued to function with just the plastic covers for protection.

The Result

"We knew that we could rely on TRENDnet's product line. We chose to go with TRENDnet because of both price and quality. We didn't want to spend a lot on the equipment, but we needed something with more than just decent quality to keep the public safe. The setup was extremely easy. The video stream came in very clear, and we didn't experience any downtime. We're getting more of TRENDnet's products."

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