

cnVision Provides Steady Wireless Video Surveillance at Brazil's Largest Agribusiness Trade Show



“With Cambium Networks’ cnVision, we were able to bring a value-added solution to the trade show. We greatly optimized costs, simplified the network, did not experience downtime and did not harm communications from other companies in this large, interference-rich environment.”

FERNANDO BAYER,
ACCOUNT MANAGER,
SYMA SOLUTIONS



Overview

SHOW RURAL, located in Cascavel, Brazil, is the country’s largest agribusiness trade show. The annual trade show introduces visitors to the latest technologies and brands within the agriculture industry. In February 2020, Syma Solutions (a system integrator covering the Paraná state), Delta Cable (a Cambium Networks cnVision distributor) and Cambium Networks exhibited together at Show Rural. Together, they exhibited a live demo of the cnVision wireless video surveillance solution in their booth and shared the recording with event staff. Syma Solutions oversaw the installing and configuring of cnVision equipment at the trade show. Even though this was their first time working with cnVision, Syma Solutions was able to install and configure the deployment within one day.



The Challenge

AS PART OF A LIVE DEMONSTRATION, Syma Solutions needed to set up a temporary video surveillance installation that would last throughout the five-day Show Rural trade show. Syma Solutions used cnVision, Cambium Networks’ wireless solutions for video surveillance and CCTV. As part of the demonstration, Syma Solutions provided cameras to monitor the event and public areas. As a system integrator focused on CCTV projects, it was the right time for Syma Solutions to begin working with cnVision.



Even with the presence of many third-party radios that generated interference at the trade show, Syma Solutions needed to use 16 high-definition IP cameras and two speed dome cameras with real-time movement. The solution needed to communicate with all cameras in real time, record at all times and avoid signal interference. The Show Rural event covers an area of 720 thousand square meters. Of this area, 520 thousand square meters needed to be covered by a video surveillance solution. To deploy fiber for a temporary event of this size would have been expensive and time consuming. Syma Solutions went the fixed wireless route because of its quick deployment time, cost effectiveness and low impact on the environment.



BENEFITS OF WORKING WITH CAMBIUM NETWORKS

- cnVision is a scalable and reliable solution that is purpose-built for wireless video surveillance.
- Cambium Networks' cnVision allowed Syma Solutions to deliver a high-quality, value-added solution to Show Rural.
- Ease of management, installation and configuration meant no deep knowledge in wireless technology was necessary to set up cnVision.

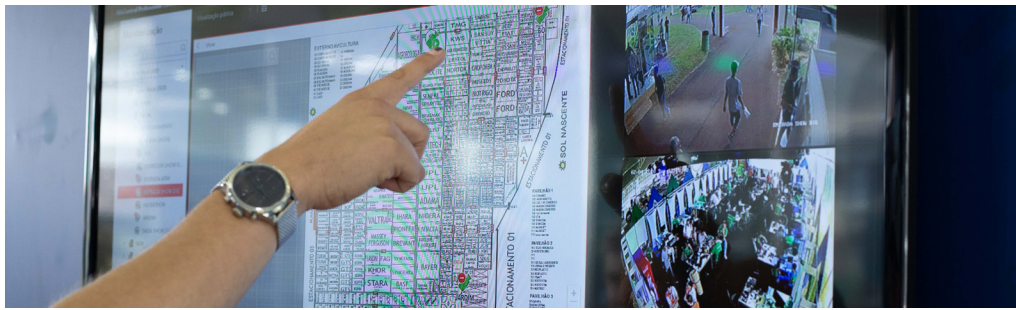
The Solution

PLANNING FOR THE PROJECT began by defining camera locations and the coverage area of the wireless network. Syma Solutions found five locations throughout the area where they would install a total of 16 cameras. Syma Solutions installed one Cambium Networks cnVision Hub 360 and connected five Cambium Networks cnVision Client MINIs to the Hub. Some cnVision Client MINIs connected to more than one camera. For Syma Solutions, the cnVision Hub 360 was the main success factor for the installation since it simplified installation and alignment of the Client MINIs.

The Cambium equipment was equipped with the necessary accessories for installation, simplifying the installation process. Afterward, Syma Solutions conducted the configuration phase which included accessing the GUI of each radio. The Hub 360 setup went smoothly. Client MINI installations were simple because most settings are provided by the Hub, which manages the information.



Installation of physical infrastructure, cabling, antennas and cameras took approximately eight hours. The six radios, 16 cameras and cabling were functional within the same day. It took 20 minutes to configure the Hub 360 and 10 minutes for each Client MINI antenna. Throughout these 70 minutes, Syma Solutions also performed several tests of upload, download and signal strength to confirm the alignment of the equipment. Another fact to take into consideration is that this was Syma Solutions' first time working with these models.



SUCCESS FACTORS

“The ease of implementation and the signal quality despite interference were two factors that made this a successful deployment. Additionally, cnVision troubleshooting is easier due to the integration with the video management software (VMS) and discovery of devices on the network via ONVIF protocol. As a result, deployment and maintenance are much simpler.”

Juliano Bongiorno, Solutions Architect, Syma Solutions

The Results

THROUGHOUT THE TRADE SHOW, Cambium Networks’ video surveillance solution supported the CCTV application. Syma Solutions was able to access the cameras in real time during active recording processes without any downtime or speed issues. Cambium Networks, Syma Solutions and Delta Cable were able to provide the live demonstration in the booth and provide video recordings to the event staff. With the Show Rural trade show expected to grow next year, Syma Solutions must expand the coverage area of the network for next year’s demonstration.

Highlights of the installation included:



No interference issues



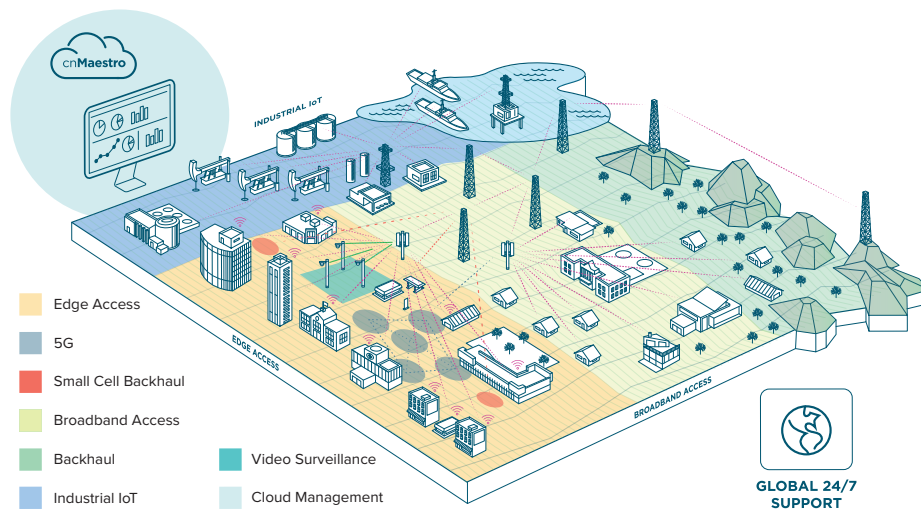
Optimized costs



Simplified network



No downtime



Cambium Networks’ gigabit wireless solutions enable municipal, enterprise and service provider operators to tailor connectivity to meet exact requirements and grow as needs evolve.