

Customer type: County

Country/Region: Pennsylvania, USA

Application: Public safety network for voice, video and high-speed data communications



Highlights

The customer

Cambria County, Pennsylvania – Cambria Connected project.

The integrator

CONXX, using their patent-pending EtherCell™ operating environment, have integrated the system components to provide the security, flexibility and performance required by a multi-service, multi-user environment.

The challenge

To replace an aging public safety network with a multi-service communication network to provide improved services to safety agencies, businesses and residents.

The solution

A public safety and community network which combines carrier-class backbone architecture with best-of-breed wireless broadband last-mile technologies, including the Wavion WBS-2400.

The result

A powerful broadband network throughout Cambria County that promotes “a partnership for government, business and the people”.

The customer

The Cambria County located in the state of Pennsylvania has initiated a novel project called Cambria Connected - “a partnership for government, business and the people”.



The project is a multi-service communication network that will provide voice, video and high-speed data communications to all participating public safety agencies, as well businesses, education and all levels of government.

Broadband Wi-Fi solution for public safety agencies



The challenge

The Cambria County needed to find an infrastructure solution that can effectively run multiple applications for all of emergency services, and provide the capability to provide improved services to local businesses and residents. This presents a wide and diversified set of requirements such as high-availability, guaranteed bandwidth, indoor penetration etc, which need to be addressed while maintaining a cost effective business model.



The solution

Working together with an experienced integrator – CONXX – the Cambria County created a public safety and community network which combines carrier-class backbone architecture with best-of-breed wireless broadband last-mile technologies, including the Wavion WBS-2400 base stations to provide last mile Wi-Fi access. The WBS-2400 beamforming technology allowed Cambria County to provide community Wi-Fi coverage with a small number of base stations and with superior indoor penetration.

The solution provides communication services to the county's emergency and safety agencies as well as the government entities. In addition, several ISP's leverage the network to provide broadband wireless access (BWA) to local businesses and residents.

Future expansion

In Cambria Connected, the Cambria County vision is not only to improve public safety communications but also to increase economic development opportunities for the County. Their goal is to promote "a partnership for government, business and the people".

The Cambria Connected project is funded through a government initiative that encourages infrastructure upgrades as a tool for local development and growth. As governments, counties and municipalities gain understanding of the tremendous impact achieved by providing broadband communication to their communities, this model will be replicated throughout the US and around the globe.

Why Wavion

"In field tests against the competition, Wavion WBS-2400 beamforming base stations provided superior performance in terms of range, capacity and indoor penetration. This allowed us to deploy a third of the number of base station in comparison to the competition and create a very cost effective solution" said Brent Mortensen, CONXX's CEO "furthermore, our very successful project with Wavion base stations in the City of Cumberland, assured us of the systems' quality and reliability."

For further information visit www.conxx.net

