

# Connecting Classrooms; Cultivating Community



“Our previous solution was designed for coverage and not density, and lacked the capacity we needed. cnPilot was quickly self-installed, and provides the capacity to accelerate learning.”

- SCOTT BUNYEA,  
NETWORK  
ADMINISTRATOR,  
PLYMOUTH  
SCHOOL DISTRICT

## Overview

**PLYMOUTH JOINT SCHOOL DISTRICT IN WISCONSIN** Plymouth. k12.wi.us is a small system of public schools serving Plymouth and surrounding communities in eastern Wisconsin. With three elementary campuses, one middle school, and one high school, Plymouth K-12 enrolls just under 3,000 students, with high standards for educational excellence, extracurricular activities, and community engagement.



## Challenge

**ONLINE RESOURCES ARE A KEY COMPONENT OF ALL EDUCATION SUBJECTS. IN ORDER** to provide meaningful learning activities, the connectivity and access to the internet must be consistently reliable and stable when a classroom of students conduct simultaneous searches.

Plymouth K-12's Network Administrator Scott Bunyea describes the District's previous Wi-Fi access system as "A wireless solution designed for coverage and not density. Our old system lacked capacity for the number of wireless devices we currently own."

The students, teachers, faculty, and guests had trouble accessing and staying connected to the network, which wouldn't support more than 30 simultaneous users per Access Point. Connections needed for learning activities, standardized student assessment, and administrative applications regularly slowed and failed, resulting in frustration.



## Requirements

**PLYMOUTH SCHOOL DISTRICT NEEDED AN** affordable solution that could increase capacity, expanding rather than replacing their existing equipment, with minimal interruption for their students. Not only would the new equipment enable connection for regular use by nearly 3,000 users, the system's capacity needed to handle more than double that number for public events held at any of the district's campuses. Installation of the upgrade also had to be simple; self-deployment was the most practical option for the small public school system's limited budget.



## Solution

**PLYMOUTH SELECTED CAMBIUM NETWORKS CNPILOT™ E400 APS, MOUNTING 150 OF THEM THROUGHOUT THE** five school buildings. This solution, integrated with cnMaestro™ network management system, quadrupled Plymouth's client capacity and ended user complaints. Bunyea and his techs were impressed by the ease of installation, reporting of the self-deployment "We were able to go into classrooms during a free period and get the cnPilot APs mounted and running so quickly that they were ready to use for the next class period. This speed and simplicity has made deploying Cambium a pleasure."

<b>cnPilot™ E400 Indoor Enterprise Wi-Fi Access Point</b>
802.11ac dual band access point with MIMO
16 SSIDs supporting 256 concurrent users
Cloud-managed via cnMaestro. on-site controller option available



## Results

**PLYMOUTH K-12 IS HAPPILY RUNNING THEIR UPGRADED NETWORK WITH CONSISTENT HIGH CAPACITY AND** Improved speed for both regular use and high-traffic event access. They chose Cambium products for quality and reliability at a price point that worked for the district's resources, ensuring their students are supported in the rapidly changing world of modern learning. They plan to extend their Cambium wireless network to upgrade nearby remote schools.