



## Concord Hospital Selects Ventev Enclosures to Deploy High-Performance Wi-Fi Quickly, and Comply with Infection Control Standards

### Executive Summary

#### Client:

Concord Hospital, a 200-bed hospital in New Hampshire

#### Client Challenge:

Install high-speed Wi-Fi throughout the hospital and several outpatient buildings while meeting strict safety requirements.

#### Product Solution:

##### Ceiling Tile Enclosures for Access Points

Ventev's Ceiling Tile Enclosure deploys and protects the access point (AP) in a safe, aesthetically pleasing solution within a suspended ceiling.

- Fits into both standard and tegular style 2' x 2' ceiling tile grids
- Constructed of lightweight, powder-coated aluminum
- Meet NEC300-22 and 300-23 requirements for installation in plenum/air-handling areas
- Includes holes for securing the enclosure to the ceiling system, cord grip and key lock
- OSHPD approved



Recently, Concord Hospital in New Hampshire determined the need to install a new wireless system to ensure that reliable Wi-Fi access was available throughout the hospital and in a number of outpatient facilities.

Wireless network requirements in hospitals have changed dramatically in recent years. Today, hospitals want to ensure high-quality service in all areas, including patient rooms. This requires installing access points in patient rooms, which is challenging because of the infection control and security issues, as well as the need to work in the rooms during high census levels. With over 200 patient rooms, the installation would need to go as quickly as possible.

To meet HITRUST certification requirements, it is mandated that all access points be hidden or secured. In addition, to reduce the spread of infectious disease and contaminants, they must follow strict Infection Control Risk Assessment (ICRA) guidelines established by the American Society of Healthcare Engineering (ASHE) and the U.S. Centers for Disease Control and Prevention (CDC) for accessing the plenum space above ceilings.

The entire hospital would use the latest 9133 series Avaya access points to provide the increased transmission speed and improved coverage area they required. Installing the access points with enclosures for the APs would ensure compliance with ICRA guidelines and allow quick access to the APs in the future without entering the above ceiling plenum space. Selecting the right enclosure would also allow them to install the AP quickly and secure it.

After testing several enclosures, the hospital selected Ventev's Ceiling Tile Enclosure. Although Ventev did not have a CTEN to fit an Avaya access point on the shelf, Ventev engineers customized a solution and sent samples for testing. The CTEN provided the quality and value they were looking for and they liked that the AP face protruded about a half inch through an opening, so it was visible but locked securely within the enclosure.

The installation of each Ceiling Tile Enclosure with access point took less than 30 minutes, which allowed the deployment to be completed ahead of schedule. In the future, network technicians will be able to access the AP simply by opening the enclosure door. There will be no need to remove the ceiling tile and break the plane of plenum space in the ceiling, so they will not have to file an ICRA form, and set up and tear down the infection control booth, saving considerable time and expense.

The entire organization was very satisfied with the deployment. The ceiling tile enclosures solved Concord Hospital's installation challenges and they were able to deploy the network quickly. Plus, with Wi-Fi access in every room, patient satisfaction levels have substantially improved.