



Community Hospital System Deploys Cisco Wireless and Benefits from TerraWave Solutions® Enclosures



Executive Summary

Company Focus

- 5 Acute-Care Community Hospitals

Business Challenge

- Improve Patient Care with Accurate and Convenient Record Keeping
- Disruption to Patient Care during AP Installation and Maintenance

Solutions

- TerraWave 14" x 24" x 6" MIMO Ceiling Tile Enclosure
- TerraWave 20" x 20" x 8" MIMO Hard Cap Ceiling Enclosure

Benefits

- The network provided location-based services to track hospital assets
- Once installed, the enclosures did not require containment or tenting to access and perform maintenance to the AP

Abrazo Health Care Embraces TerraWave Solutions Enclosures to Compliment their Cisco WLAN Deployment in 5 Acute-Care Community Hospitals in Arizona

Challenge

Based in Maricopa County, AZ, Abrazo Health Care is changing the face of medicine through its commitment to providing outstanding patient care to the communities it serves. Founded in 2003, Abrazo consists of five acute-care community hospitals – Arrowhead Hospital, Maryvale Hospital, Paradise Valley Hospital, Phoenix Baptist Hospital, and West Valley Hospital – totaling 996 licensed beds, five imaging centers, and 19 primary care offices. Abrazo is owned by Vanguard Health Systems of Nashville, Tennessee, which presently operates hospitals in Arizona, Illinois, Massachusetts, and Texas.

To improve patient care as well as the accuracy and convenience of record keeping activities, Abrazo decided to design a wireless LAN supporting a clinical nurse documentation system. Abrazo partnered with Presidio Networked Solutions, a leading IT and systems engineering services firm and a division of Presidio, Inc. Working with Presidio South,

Abrazo ultimately chose an IEEE 802.11b/g wireless communication solution. The system operates using the Cisco 1252 Access Point (AP).

Presidio performed a location based services survey in all five hospitals. In order for the system to work, the survey revealed, ceiling installations needed to occur throughout the hospitals. This raised concerns about disruptions to patient care during installation and routine maintenance and upkeep activities.

Solution

Abrazo's engineers ultimately selected two TerraWave products which offered the physical security, ease of installation, access, and flexibility the project required.

TerraWave's 14" x 24" x 6" MIMO Ceiling Tile Enclosure contains and protects the AP within a suspended ceiling in an aesthetically-pleasing, stealthy manner. Suspended in a similar manner as the ceiling tile grid, the enclosure is suspended by wire to the roof structure. Required hardware is provided to hold the weight of the enclosure. **TerraWave's 20" x 20" x 8" MIMO Hard Cap Ceiling Enclosure** offers similar protection, concealment, and functionality within a hard cap ceiling, such as metal, sheetrock, stucco or wood. Once installed, the enclosure is conveniently secured and flush with the hard cap ceiling. Both products are compatible with Cisco AP 1252.

Abrazo installed 270 ceiling tile and 53 hard cap ceiling enclosures throughout all five hospitals.

Continued

For detailed product information and to purchase product, please contact a TerraWave wireless networking solutions sales engineer at 210-375-8482, 800-851-4965, sales@terrawave.com or visit www.terrawave.com.



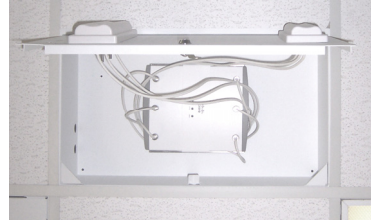
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TerraWave 14" x 24" x 6" MIMO Ceiling Tile Enclosure

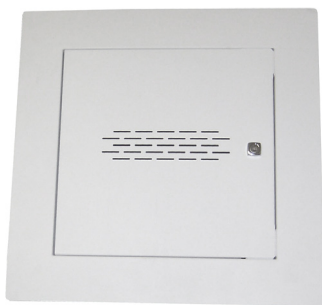


TW-CTEN-MIMO Closed

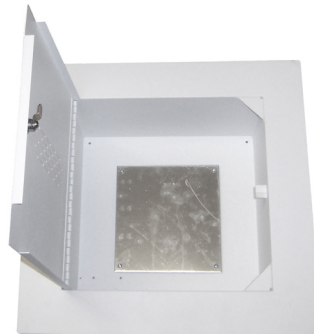


TW-CTEN-MIMO Installed with the Cisco 1252

TerraWave 20" x 20" x 8" MIMO Hard Cap Ceiling Enclosure



TW-HC-MIMO Closed



TW-HC-MIMO Open



TW-HC-MIMO Installed with the Cisco 1252

Business Results

Deployment of the enclosures resulted in significant cost avoidance for Abrazo. In order to provide location based services throughout the hospital, APs needed to be placed in areas of the hospital that would be difficult to access while caring for patients. The TerraWave enclosures eliminate the need to take a room out of service for an extended period of time due to containment issues when a normal ceiling tile would have to be opened to service an AP. This enables Abrazo to respond quickly to any remediation that might need to be performed and, if needed, replace an AP in minutes instead of hours. Consequently, operating rooms, patient rooms, emergent care facilities, and other revenue-generating patient care space need not be shut down or idled for long periods of time.

Next Steps

Vanguard Health Systems, Abrazo's parent company, is pleased by the convenience, security, and functionality the enclosures offer, and is planning similar deployments in its other hospitals.



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