

Let doctors spend their time treating patients, not waiting on the network.

Ensuring a reliable network for clinicians, patients and visitors: A Healthcare Case Study

Mobility in Healthcare

Mobility in hospitals is very important because it enables Healthcare Systems to provide efficient patient care and quick response in medical emergencies. Mobility introduces efficiencies in an industry that perpetually aims to reduce operating costs especially countries such as the U.S. where healthcare costs per capita are very high.

WiFi Clinical Devices and Services

WiFi is driving improvements and efficiencies in healthcare delivery thanks to a variety of applications; Electronic Medical Records (EMR) and telemedicine, as well as medical devices like infusion pumps and carts on wheels (COW). These rely on a wireless connection to function. Also, more and more hospitals are offering

Guest WiFi access to patients and visitors that

Challenge

Ensuring ubiquitous and reliable WiFi service to clinical and guest clients.

Results

Hospitals that are monitoring their network with NetBeez were able to reduce downtime as well as IT and clinical staff's time and resources thanks to:

- Reduced service interruptions of Electronic Medical Records and Telemedicine services
- Reduced time spent validating configuration changes on WiFi and WAN networks
- Decreased time spent to identify network versus application issues

Industry

Healthcare

Use Cases

Hospitals that have deployed wifi monitoring sensors are able to verify the correct functioning of:

- Clinical and guest WiFi networks
- Compliance of HIPAA networks
- Telemedicine applications

Products

BeezKeeper - Dashboard WiFi Beez - Monitoring Sensors



oftentimes don't have other ways to communicate with the outside world. The downside to this excellent offering is the challenge to provide a reliable and stable WiFi service. In hospitals, there are pockets of ever-migrating mobile users, a disparate number of interfering devices, and the added complication of old, thick-walled, complex infrastructure.

How NetBeez is Reducing Downtime

NetBeez has released a SaaS solution that continuously simulates user activity on any LAN or WiFi network to proactively identify the most complex network problems. NetBeez grants complete visibility of the issue before it severely impacts users, while significantly reducing time to detection and resolution of network downtime. The 802.11ac monitoring sensors (WiFi Beez) run user-defined tests at the network layer (PING, Traceroute, Iperf...) as well as the application layer (VoIP, Guest Services Association...) while reporting wireless metrics, such as:

- Number of sent and received bits per second
- WiFi signal strength and link quality
- Associated 2.4/5GHz channel and BSSID
- Bitrate established with the access point

Monitoring a network's WiFi from the client perspective can help most efficiently resolve network performance issues that could affect the clinical staff's mobility.



Pictured: The NetBeez WiFi agent

Deployment of WiFi Sensors

The WiFi Beez are deployed in critical areas such as emergency rooms, intensive care units, and operating rooms. Not only should agents be installed in these high traffic, high stakes areas but also in lower priority areas, such as patients' rooms, waiting rooms, acceptance areas, and administrative offices.

Each monitoring sensor verifies connectivity to protected, HIPAA-compliant networks' guest services to verify voice and video performance for telemedicine. On the web dashboard, the network administrator can be immediately aware of critical issues that could disrupt, or even interrupt, the delivery of patient-care services.

Results

Hospitals that are verifying mobility with WiFi sensors are able to quickly detect and troubleshoot network performance issues that could disrupt crucial, time-sensitive, healthcare operations. If you want to learn more about this solution, please visit the page https://netbeez.net/wireless-monitoring/ or send your inquiry to sales@netbeez.net.

About NetBeez

NetBeez is a network performance monitoring company that provides network performance monitoring from the end-user's perspective on any LAN and WiFi network. Its solution is used by many national and international Health Care Systems. NetBeez is a Cisco Solutions Preferred Partner.