

SUMMARY

Voice over Wi-Fi (VoWi-Fi) allows users to make and receive voice calls over their Wi-Fi networks. It is rapidly gaining popularity as more voice-capable devices, such as dual-mode phones with cellular and Wi-Fi technology, become more available. The healthcare and education industries are using Wi-Fi networks as the backbone of their phone systems.

However, providing mobility for phone calls using an existing Wi-Fi infrastructure can put a strain on the network, leading to bandwidth reduction. New equipment and network elements need to be in place to support robust applications like

VoWi-Fi.

FEATURES

- Data rates up to 54 Mbps for 802.11g
- Data rates up to 108 Mbps for 802.11n
- Mobility for users
- Integrated and/or external antennas
- Unlicensed spectrum of 2.4 GHz and 5.8 GHz
- Power of Ethernet
- Indoor and outdoor use
- 802.11 a/b/g/n- standard access points

BENEFITS

- Quick deployment
- Portability
- Easy moves, adds, and changes
- Can be used for upgrading or retrofitting existing equipment
- Scalability
- Quick return on investment (ROI)

REAL WORLD EXAMPLES

Situation: A local hospital was growing quickly and adding new employees to support the growth.

Problem: The hospital was constantly expanding its phone system to cover the needs of its staff. It needed a way to meet the need without having to rip out its existing infrastructure, since that would be time-consuming and expensive.

Solution: The hospital installed a Voice over Wi-Fi system. All of the nurses and doctors now carry their own personal phone communicators during their shifts. This allows for connectivity from anywhere and makes the operation more efficient and manageable.

ADDITIONAL INFORMATION

- Has a site survey been done?
- What network equipment is currently in place?
- Is there a network diagram
- How large is the coverage area?
- What are the bandwidth requirements?
- How important is security?
- What is the expected number of users?

PRODUCTS

- IP PBX
- Wireless access points
- Enclosures
- Antennas
- Dual-mode Wi-Fi handsets
- Session initiation protocol (SIP) phones
- Ethernet switches
- Routers
- Network cables
- Tools
- Test equipment

Knowledge Solutions

Providing the intelligence for optimum, faster decisions

- TESSCO.com
- The Wireless Guide
- The Wireless Journal
- The Wireless Updates
- The Wireless Bulletins