



WIRELESS HEALTH

No Patient Gets Left Behind

What does the future technologies of Healthcare look like... Wireless! Because today's hospital and healthcare environments are dynamic and ever changing. Doctors, nurses and other healthcare personnel are now more mobile than ever. The ability to stay in contact with other peers and important data is critical to provision of quality healthcare and the assurance that every patient is insured of the best possible care.

Technological innovation is no longer limited to the instruments, drugs and monitoring devices, but increased advancements have been made at the most basic level, communication and peer interaction. Understanding that reliable and precise information is the key element to quality healthcare. ISI insures that efficient and effective communications can be created and maintained from anywhere within the facility or the network of facilities.

ISI is a trusted partner of numerous healthcare organizations looking to consider the use of wireless in their environment. Our fundamental knowledge of wireless technology needs of the medical profession, and the upcoming HIPAA security compliance make us an ideal partner to engage when considering wireless networking.

Candidates For Immediate Impact:

Patient:

Higher Level of care, faster recovery

Nurses:

Less Stress, more time with patients

Physicians:

Direct Access to nurses and staff

Support Staff:

Coordinate efforts to save time and steps

Departments

Emergency Room:

Faster Response and increased efficiency

Radiology:

Obtain second opinions from anywhere in the world. Digital Radiology

Pharmacology:

Accurate and efficient prescription administration

Accounting:

Real time charge capture

Triage:

Flexible diagnosis without aggravating already uncomfortable conditions

Warehousing:

Inventory Management, Product Allocation

Case Management:

Real-time assessment of patients' history and needs

Handhelds: Bedside Visual Diagnosis

Industry examples have proven that handhelds have the potential to reduce medical errors, increase competitive advantage, save money, enhance productivity, improve workflow and enable patients and practitioners in new ways. Given that the PDA/Tablet PC will be the primary vehicle to enable these interactive technologies; the integrated wireless, bar code scanning and industrial construction make this product is a new tool to assist in delivery of better patient care.

Phones: Voice, the Killer Wireless Application

Collaboration and teamwork are the cornerstones of modern healthcare today, but what happens when the person you are trying to reach is not in your direct vicinity. Through the use of a wireless voice over IP (VOIP) telephone system, these critical conversations are always capable of happening. One such example is the integration of these phones with top selling nurse call paging systems. Inherent in this solution are the following benefits:

- Immediate text display of patient, room and call status
- Direct callback to patient room speaker
- Automatic forwarding to alternate caregiver
- Automatic patient assignment by shift
- Dynamic text messaging from console
- Remote operation of corridor indicator lights

Short and Long Range Connectivity: One Contiguous Network

Within a hospital campus there may exist many core facilities that currently lie outside the reach of the existing network. Radiology, Pharmacies, Billing, are all departments that require constant and steady interaction with the main network. What happens when physical limitations prohibit this connection or the existing bandwidth is not adequate? The installation of a wireless bridge is a reliable, secure and cost effective solution. ISI represents several best of breed point to point and multipoint vendors that utilize RF and Laser to achieve these goals.

Some of the benefits are:

- Elimination of Leased Lines
- Link facilities many miles away
- Links buildings into single LAN
- Licensed and Unlicensed Spectrums
- No construction costs
- Date of rate of up to 1 Gbps
- Secure and Reliable connection

Security: Managing the Liability

In many hospitals, doctors and staff buy their own handheld devices and wireless access cards. Wireless networks have crept into many hospitals one department at a time, creating heterogeneous environments. Hospitals are uniquely different in application, population, and ultimate liability for the information it possesses. Vulnerability cannot be tolerated, basic security standards are not enough. What is next?

Vendor agnostic security appliances are one answer. These devices sit between the wireless access points and the wired LAN, supplying encryption and more HIPAA related functions:

- Access control
- Authentication
- Audit trail maintenance
- Integrity control
- BBSM
- Intrusion Detection

Mobile Healthcare

Through the use of a wireless 802.11 compliant network, the possibilities are infinite. This wireless backbone enables the ability to reach and retrieve information from peers or resources anywhere within the confines of your organization. Collective decision making with other care providers or realtime access to comprehensive information ensures proper diagnosis.

ISI can work with you to identify the key issues surrounding the vision and promise of wireless, then drill down to provide practical application solutions including access issues, integration, and the convergence of technological applications and case studies that examine what works and what does not.