
WLAN in Healthcare

Stay Ahead with WLAN service

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Agenda

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- Facts & Reality
- WLAN Mobility Services
- How can Belgacom help you?
- Why Belgacom as partner



WLAN Facts & Reality

**Many people think that
Wi-Fi is easy to deploy,
but very insecure...**

**The reality is the exact
opposite
Wi-Fi is difficult to deploy,
but secure !**

- **No reliable WLAN without a decent LAN**
 - Always a wireless site-survey before WLAN installation
 - L3 switch or router in LAN network
 - Cabling no longer than 90 m
 - Avoid to work with power injector
- **Wireless LAN is moving from an overlay technology to **core network infrastructure!!**** *Gartner quote*
 - convergence of data, voice & video



WLAN Mobility Services

Tomorrow's Healthcare Providers

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- **Increased Productivity and Responsiveness**
- **Improve the quality of care and patient safety**
- **Improve Patient and Employee satisfaction**
- **Improved Security**
- **High Return on Investment**

Wireless LAN Mobility Services

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Mobility Access



- Tablet PC's for medical staff
- Portable PC's for Staff
- Smartphones
- Scanners

Guest Access



- Guest network for visitors
- Internet access for patients
- Public Internet access

Location Based



- Asset management
- Location-based content
- Streamlined workflow using historical location data

Security Monitoring



- Automatic 24 x 7 security WLAN monitoring
- WIPS

Voice



- Real-time mobile voice communications
- Improved collaboration via mobile unified communications

Existing Wireless Network

- **Wireless Enterprise Status**

- 300 million DECT in the field
- DECT reaching End Of Life
- Most Enterprise are migrating to VoIP

- **Wireless VoIP is the logical evolution path**

- IT Managers do not want 2 Voice systems
- Users do not want to carry two phones
- Dual mode handsets and PBX integration will drive adoption

- **Already installations, mainly in healthcare & industry**

Location Based Services

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tellindus

Hospitals misplace or lose up to 15% of their valuable medical equipment annually, wasting staff and patient time and causing costly inefficiencies.

- **Asset Management**
- **Hospital workflow and resources management**
- **Healthcare Equipment maintenance**
- **Temperature monitoring**
- **Patient & Staff Safety**

By 2010, RFID in healthcare is estimated to be at \$1.0B and continue upward to \$3.1B by 2012.” - Gartner Strategic Planning Assumption



How can Belgacom help YOU?

WLAN Project steps 1/2

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- **Assessments & Audits**
 - What is the goal of the WLAN?
 - Application assessments
 - Audits: impact on LAN, profile of users, ...
- **Site survey**
 - On-Site Measures (802.11 Analyzer, Spectrum Analyzer)
 - Exact amount of AP's, Info for Cabling
 - Impact on existing LAN
 - Potential sources of problems
 - Detailed Report (provided to the Customer)
- **Offer**
 - Hardware, software, services

WLAN Project steps 2/2

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- **Implementation & Integration**

- Project Kick-off
- Final Design
- Staging
- Implementation

- **Acceptation**

- Acceptance testing
- Stress testing
- Redundancy testing

- **Management**

- NOC (Network Operation Center)
- Reporting
- SLA Management
- Maintenance
- Helpdesk & Support



Why Belgacom as a partner?

Telindus Belgacom ICT Expertise + Partners



Certifications

- Highest Certification Level for ALL products in the portfolio
- 4 certified Cisco Advanced WLAN engineers
- 11 certified Trapeze WLAN Engineers
- 4 Aeroscout full certified engineers



REFERENCES



Jan Yperman ziekenhuis

- Nortel data/voice/LBS WLAN
 - 350 access points, redundant configuration
- Aeroscout
 - 155 Aeroscout excitors
 - 900 tags (43 temp-tags, 20 call-button tags)



GSK

Pain: Location people in case of emergency

- Cisco wireless **3000 AP's!!**
- Location based services:Aeroscout
- Total coverage

REFERENCES



CHR Namur

- Cisco LAN & WLAN network
- Partial WLAN data coverage
- Internet for patients (wireless guest access)



RHMS

- LAN & WLAN (Cisco) / Datacenter
- Grouping of 5 hospitals ICT LAN – WLAN
- WLAN 150 access-point over the 5 hospitals
- WLAN data/guest access

Conclusion: Why Belgacom?

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- Complete portfolio
 - Convergence
- Great expertise and partners
 - In all WLAN domains!
- Consultancy, site survey, design, implementation... services
 - We can help implementing data/voice/LBS services on your (wireless) network
 - End-to-end implementation, starting with a site survey
- Managed Services: focus on your core business!
- Outsourcing opportunities
- SLA's at any level
 - Large team of certified engineers → guarantee business continuity