“Building Patient Safety”

Patient Safety

Healthcare Supply Chain Efficiency

- Automatic Data Capture (Bar Codes, Data Matrix, RFID)
- e-Commerce (EDI / XML Transactions)
- Electronic Record Management (e-Records, e-Prescriptions)
- Traceability (e-Pedigree, Recalls)

Assets & Equipment Tracking

Standardized Product Definition (GDSN™)

Standardized Location Identification (GLN)

Standardized Product Identification (GTIN™)

Standardization ➔ Interoperability
RFID Implementation

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Director Supply Chain  
GS1 Healthcare US Leadership Team
Why

- Patient safety
- Recall and event reporting purposes
- Rental expenses in excess of $400,000
- Needs Analysis indicated no need to rent
- Assist in determining need for additional equipment and actual numbers required
- First of many phases
  - Supply tracking
  - Patient tracking
  - Staff tracking
Vision - Visibility
Tracking in Healthcare

1. Asset Tracking
   - Clinical equipment
   - Wheelchairs
   - Beds, Stretchers
   - Medical assets

2. Staff tracking
   - Process/workflow improvement
   - Scheduling, Patient transports

3. Patient tracking
   - Process improvement through tracking patient flow
   - Wanderers/eloiplement
   - Long-term care, elderly care
   - Control pandemics
   - Manage disaster situations
RTLS for Healthcare
Real-Time-Location Solution

- Shelf level
- Door level
- Bed level
- Room level
- Building level
- Campus/Multi-Campus

Ekahau software and Ekahau Tags
T301-B Personnel Tag with LCD

1. **Man-Down alerts:**
   - if person has not moved in 5min, send request to get security guard to that location

2. **Panic Alerts**
   - if one needs help, push button and get help in your location

3. **Hazardous areas**
   - whoever enters hazardous area, report person ID and location

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T301B
- Pager/text messaging (LCD) option
- Motion sensor
- Panic buttons
Desktop

Customizable View, where users can display the most frequently requested location information

- Searches and Item Lists in map or list format
- Alerts and notifications
- User’s location
- Quick Find
Event history

Full event history with visual search tools

• List events by
  – Event rule
  – Tag
  – Start date / end date

• Acknowledge open alerts

• View event location
  – List or map view
How Does It Work?

Start Tracking!

TRACK PDAs!

TRACK Laptops!

TRACK Voip Phones!

TRACK Barcode/RFID scanners!

TRACK hospital wireless equipment!

TRACK WiFi TAGs!

5
"Interesting. But what’s the ROI?"
WHY WE CHOSE EKAHAU?

1. **OPEN** Wi-Fi RTLS works with any Wi-Fi vendor’s network, as any standard Wi-Fi application

2. **EASY** to deploy Wi-Fi RTLS can be deployed over existing Wi-Fi network in less than an hour per 30,000 sqft hospital floor (example)

3. **ACCURATE** Wi-Fi RTLS does NOT require additional hardware infrastructure
YES! Hospitals Need Asset Tracking

USED WHEELCHAIRS - FOR SALE
Use of RFIDs in the Future

- Patient safety
- Interface between system and ADT
- Traceability of patients, supplies, and equipment
- Monitoring of temperature of supplies during shipment
- Addition of semi-active tags for equipment
- Increase TJC inspection compliance