Borda Technology

Adana Integrated Healthcare Campus

SOLUTIONS









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Implemented Borda Healthcare RFID Solutions



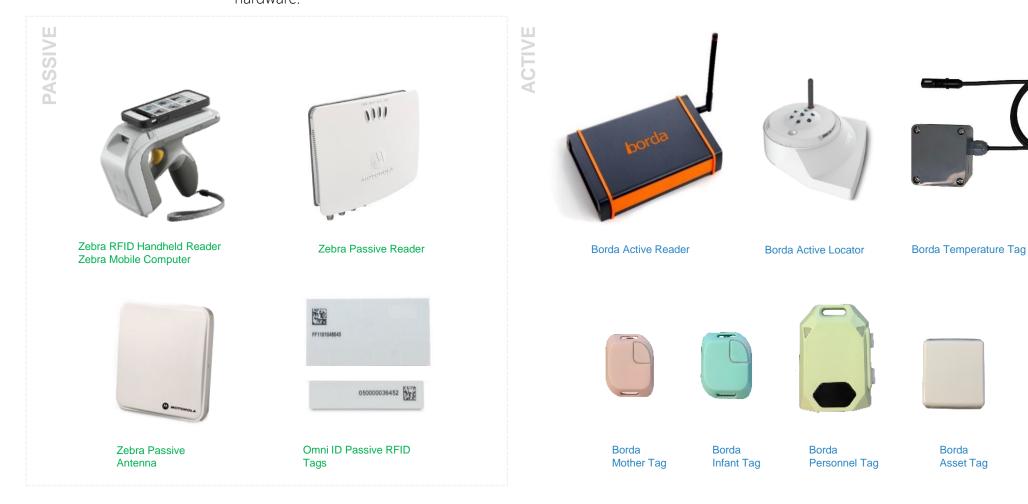








We believe that what we offer to our customers and partners must be reliable and functional. To achieve that we have been researching, developing technology and proven products in order to stand behind them proudly. As a result, we have developed our own active RFID hardware and also cooperated with companies that we trust for Passive RFID hardware.











PRODUCTS

Borda Lighthouse Software

The powerful and useful platform must be created with a deep knowledge of business domain. It must also be beautifully designed, user friendly, flexible to customize according to needs. That make us design Lighthouse platform.





System Components



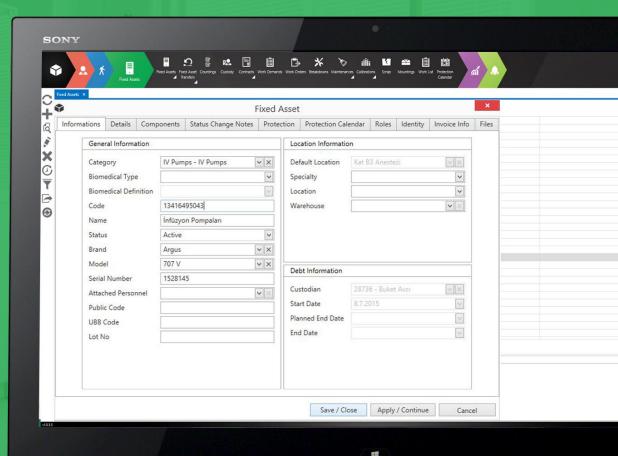












ASSET Management Solution











- > All locations are tagged with RFID tags.
- > RFID tags are used in counting assets.
- > These tags enable the personnels to locate themselves easily.
- > These codes are used also in Central Helpdesk, to locate any request.







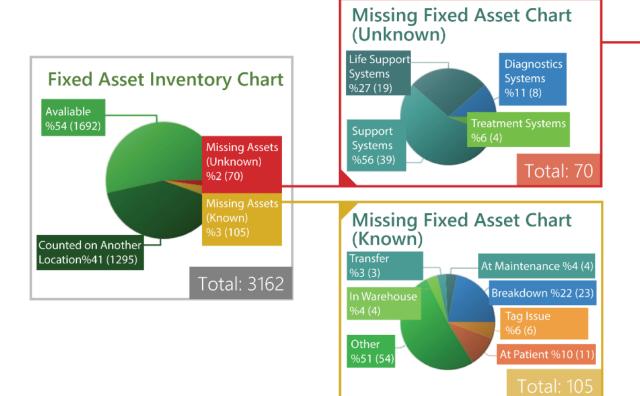


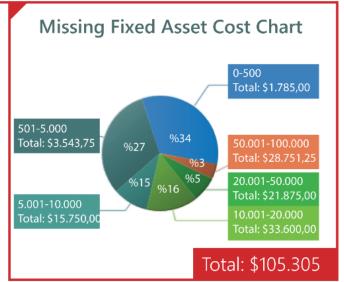
Counting operations are done very fast, planned and systematic



Asset inventory is monitored in room scale







System Components











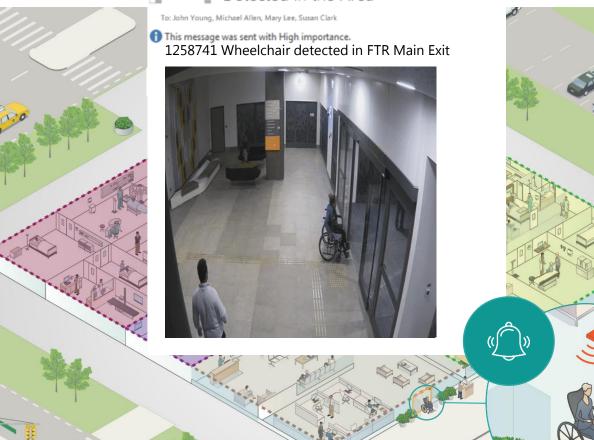






Mon 01/02/2017 5:17 PM

Borda Tech <noreply@bordatech.com> Detected in the Area

















- > Passive RFID checkpoints are located in 35 exit doors.
- > Each door has a flasher, which provides audiovisual alerts.
- > CCTV operators recieve the alerts as a Lighthouse notification.
- > Custidians of the assets recieve the alerts an e-mail.
- > Loss and stolen is prevented
- > Awareness of assets increases and overpurchasement decreases

System Components







REAL-TIME TRACKING Solutions













The Main Capability of The Solution

- ≥ Secure zones are created to detect unauthorized exit of the people and the assets
- ☑ Infant and patient kidnapping, also asset stealing attempts are detected
- → The patient or personnel generates an emergency call







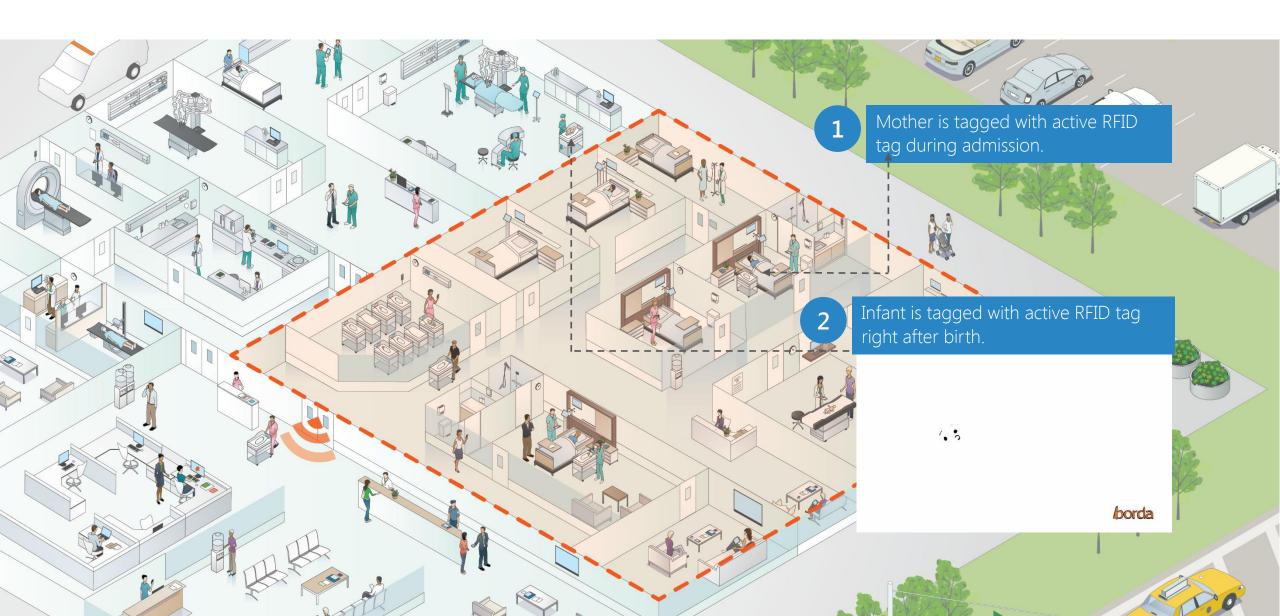




- > If an unauthorized surgery patient or mother is located at the exit zones, an alert is created.
- > Customized alerts are generated if it an impatient is unauthorized to leave his/her room.
- > These alerts notify CCTV operators, nurses and doctors.







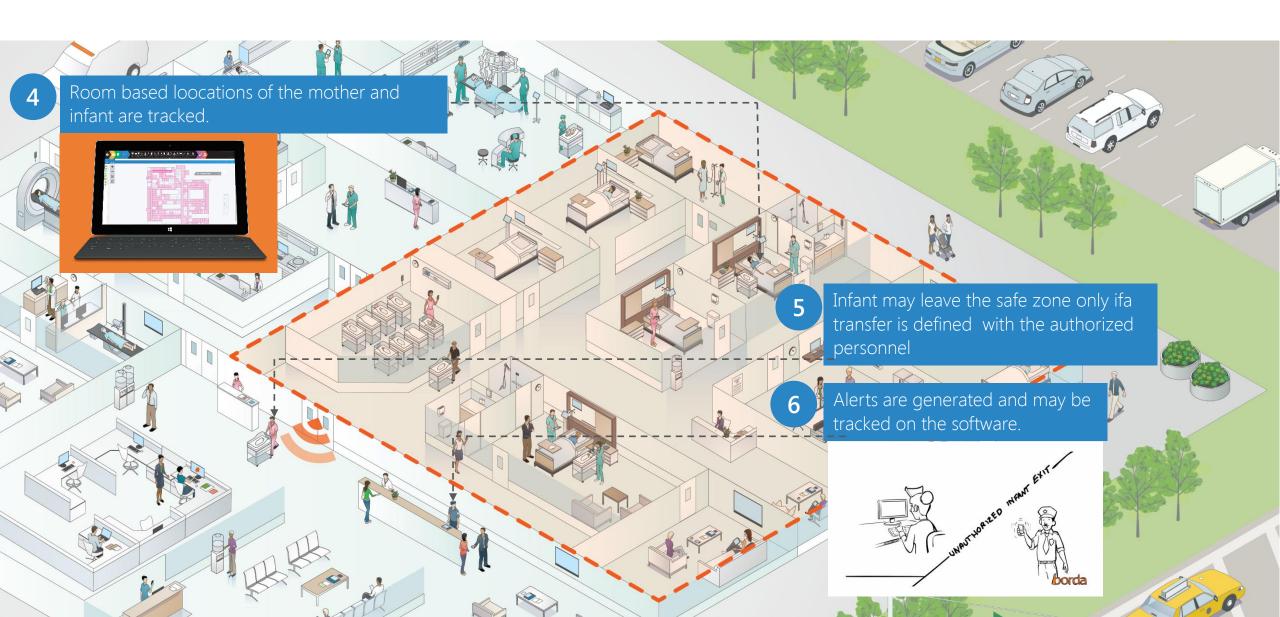






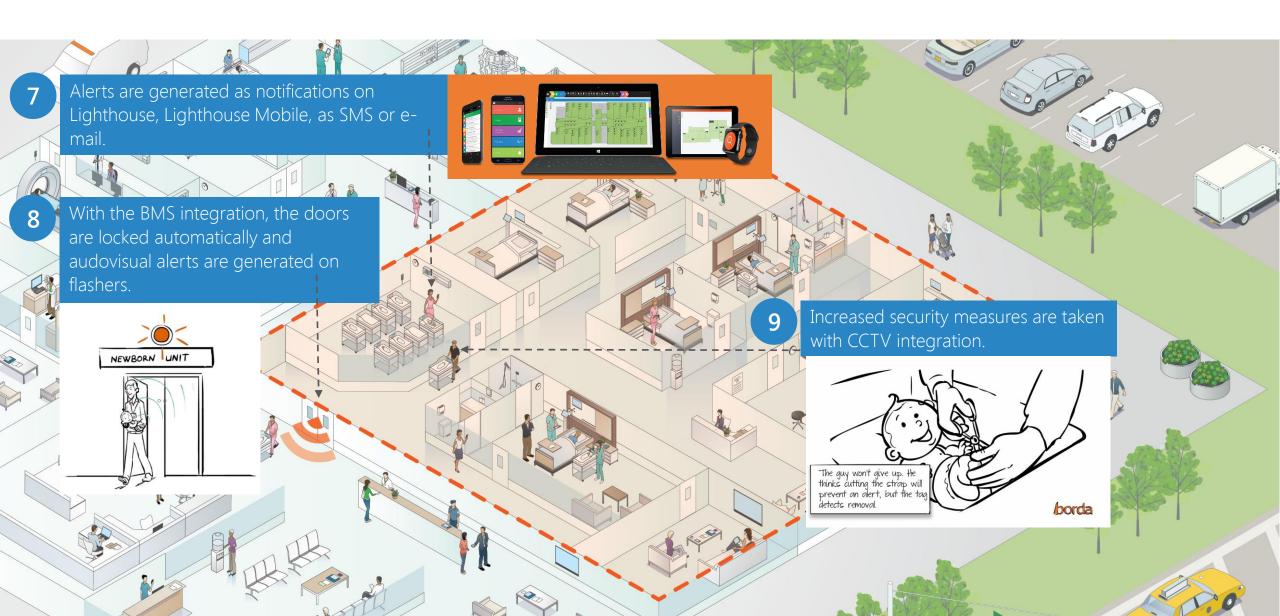


















RTLS - Asset Safety









RTLS - Personnel Safety



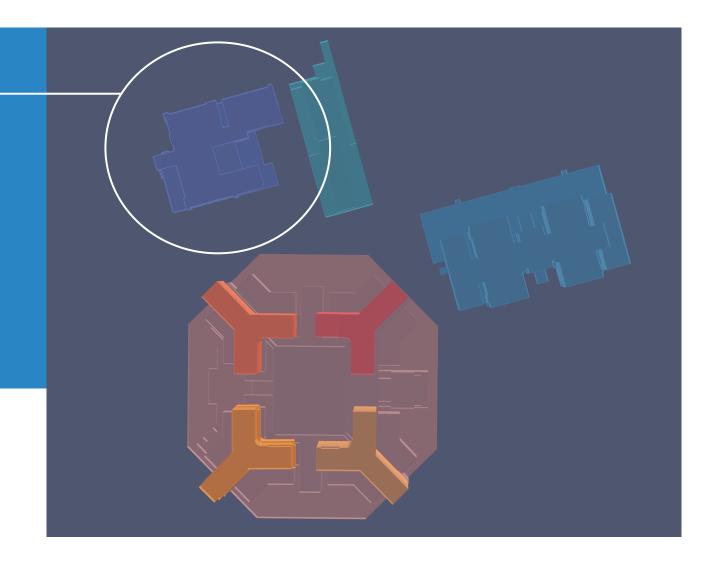




HSFP Building -

High Security Forensic Psychiatry Hospital

- Each doctor, nurse or personnel is tagged with a badge tag
- 287 tags in total



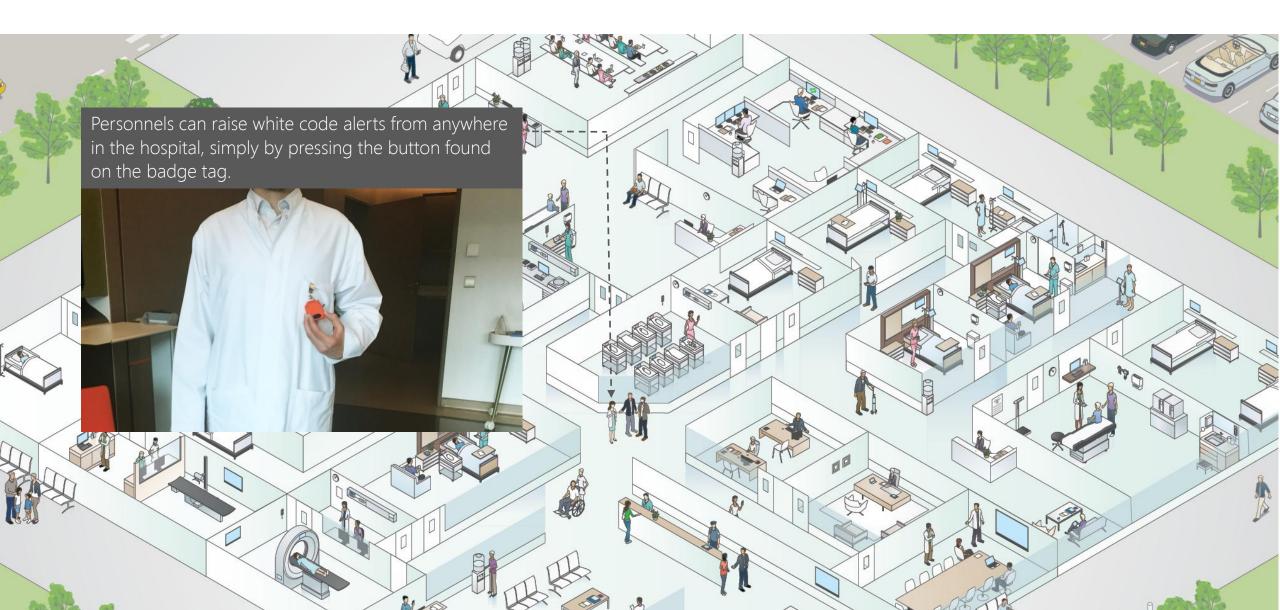












System Components



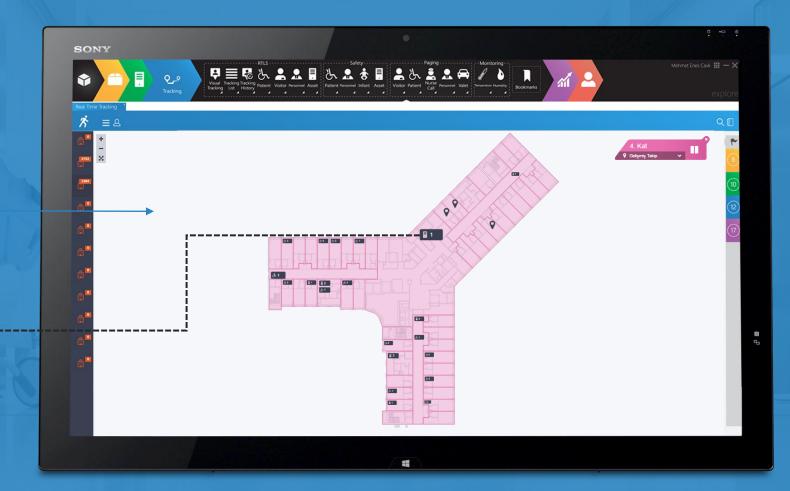




RTLS







RTLS - Patient Tracking









The data of movements of people and objects is qualified



Business processes are observed



The uncertainties are eliminated



Data is formed for administrative decisions



Improvements are made in business processes



Automatic control of authorization constraints and business processes is done

Benefits of this solution:

☑ Improved quality of healthcare

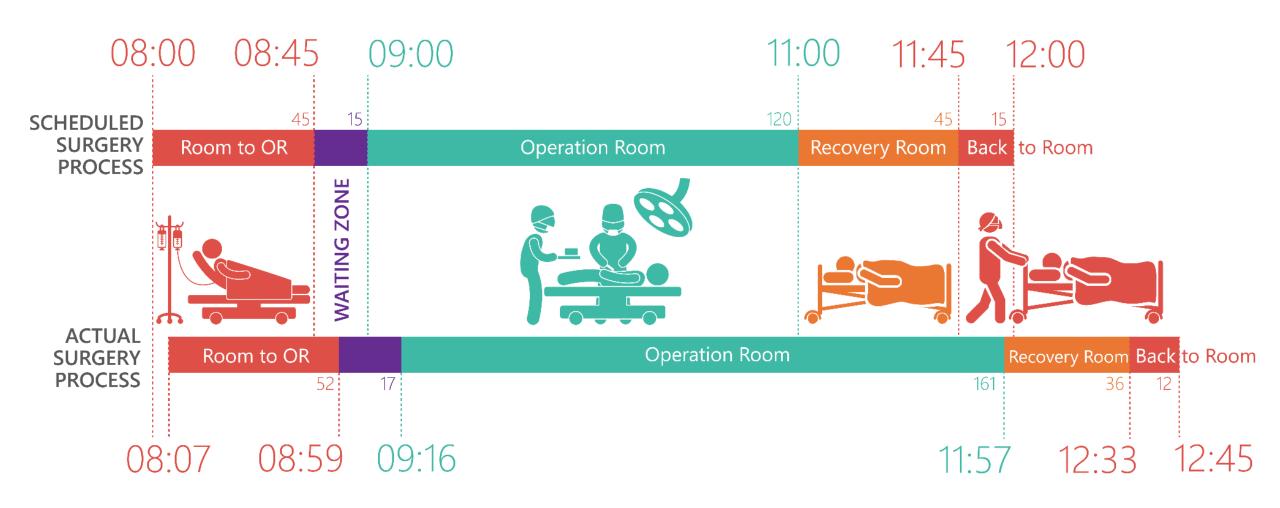
→ Decreased cost







RTLS - Patient Tracking (Surgery Process)

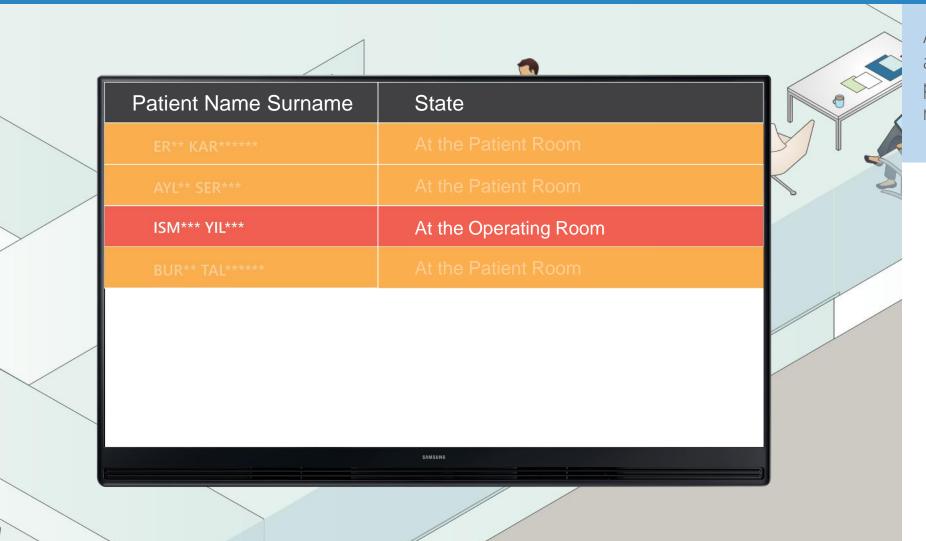












At the waiting areas, patient's relatives and friends may follow the state of the patient from the monitors that show real-time state of the patient.

RTLS - Patient Tracking (Surgery Process)







Lighthouse creates useful reports that help to:

- Clarify the spending time of the patient
- Reduce the waiting time and uncertainties.
- Increase patient and staff satisfaction.







RTLS - Asset Tracking



System Components



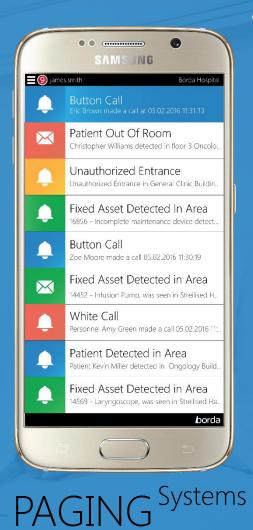






how it works





Paging

Paging



In the call notification; the caller's identity and location information is transmitted



So that the caller can be reached quickly



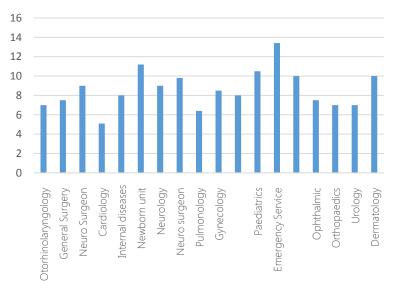
Calls are reported



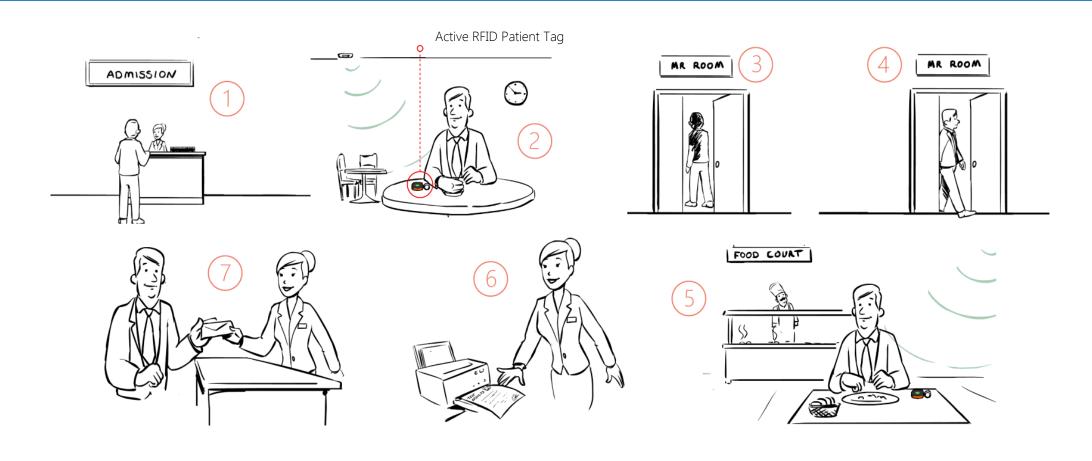
The response times for the calls are evaluated on the basis of KPIs

#	Service	Nurse Room Average Utilization	Expected Average Response Time
1	Otorhinolaryngology	1,8 mins	2 mins
2	General Surgery	1.6 mins	1.5 mins
3	Neuro Surgeon	1.4 mins	2 mins
4	Cardiology	2.5 mins	2 mins
5	Internal diseases	31 secs	1 min
6	Newborn unit	10 secs	15 secs
7	Neurology	1 min	1 min
8	Neuro surgeon	28 secs	30 secs
9	Pulmonology	2 mins	2.5 mins
10	Gynecology	1 min	1 min
11	Child and Adolescent Pychiatry	8 secs	15 secs
12	Paediatrics	50 secs	1 min
13	Emergency Service	7 secs	15 secs
14	Physical Medicine and Rehabilitation	1 min	1,5 mins
15	Ophthalmic	2 mins	1,5 mins
16	Orthopaedics	2 mins	2 mins
17	Urology	1.5 mins	2 mins
18	Dermatology	1 min	1.5 min

Nurse Room Average Utilization (Service Basis)

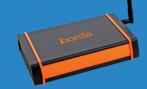


- 1 It makes sure that the hospital staff responds to patient calls in a timely manner
- The patients and visitors are waited in the stress free areas, such as the cafeteria, for the operation and are called in due course
- The patients and visitors do not waste time waiting for the vehicles, the vehicles will be at the door when they exit



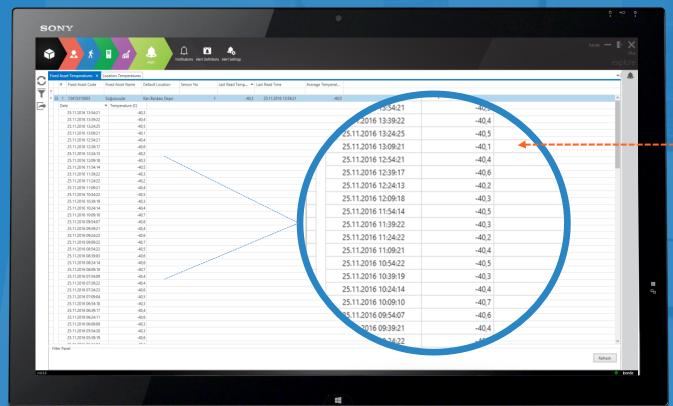
System Components



















Active RFID Tags

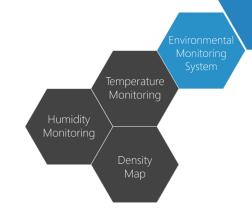
The Active RFID tags are capable of monitoring both temperature and humidity. Reading period may be set in the desired period. In this case, the periods are set at 5 minutes. Each tag has a unique temperature and humidity Türkak calibration sertificates.



The Main Capability of The Solution



- ➤ Temperature and humidity are controlled automatically without interruption
- ☑ When the threshold is exceeded, an alarm is generated and the relevant personnel are informed
- ➤ Food is prevented from being adversely affected by the changes in temperature and humidity which cause rottenness.
- ➤ Hospital staffs do not have to check environmental values at certain periods and labor cost saving is ensured.



- Monitored Food Storage Locations28 locations in total
 - > Main Building: 6 locations
 - >TUB: 20 locations
 - >PTR: 1 locations
 - >HSFP: 1 locations
- Monitored Food Storage Assets2 assets in total
 - > Fridge & Chiller : 2 adet



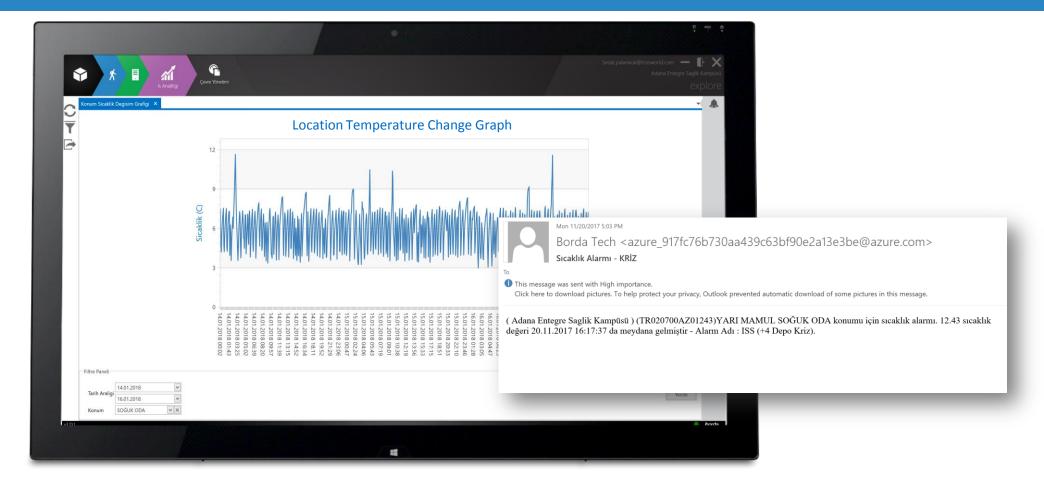
Changes in environmental conditions are reported in detail



Environmental values such as temperature and humidity are continuously and precisely controlled



An alarm is generated in the event of exceeding the threshold value and the related personnel are informed





- ≥ Each porter personnel has an active RFID badge tag, which provides the real time tracking of these personnels.
- **∠** Any personnel calls 5555 and demands a porter.
- Dispatcher assignes the demand to the nearest available porter personnel on Lighthouse.
- > Porter personnel controls the work demand on Lighthouse Mobile.















