



# Building a Smart Hospital

.....that Stays Smart Well into the Future  
The New Al Ain Hospital – A Case Study!

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# Foundational Thoughts

- Designers are being asked to not only build a state-of-the-art health care facility that satisfies the needs of patients, clinicians and staff – but to also **predict the future**
- To design an IT infrastructure that is extremely flexible so that regardless of what comes along in the next 10 to 20 years the communication infrastructure is already there and **can adopt the new technology**



# **The New Al Ain Hospital a 'Healing Oasis'**





## The New Al Ain Hospital Case Study

**Abu Dhabi General Services Company (Musanada) / Abu Dhabi Health Services Project**

The Al Ain Hospital is a 358,000 sq. meter, 700+ Bed Hospital.

The new state-of-the-art acute hospital is designed in line with German building standards, which are among the most stringent in the world, and its clinical services will meet European healthcare standards.

**Being built on the theme of a 'Healing Oasis'**

**Bicsi**  
MIDDLE EAST  
& AFRICA



## TAMDEED PROJECTS Project Landscape

TAMDEED undertook this flagship project & implemented a standards based approach towards **Survey, Engineering, Supply, Install, Commission, Integrate & Test the Extra-Low Voltage Package ( 19 Systems) of Works of The New Al Ain Hospital** on a Turn-key basis.

# TAMDEED PROJECTS

## Healthcare Project Key Learnings



- **Integrated Building Management and Security Systems.**
  - The integrated technology provide visibility to all the Electrical , Mechanical and Medical Systems
- **The goal for patient rooms is to make them more patient-centered,** improving the patient experience by helping patients take a more active role in their own health care.
  - Tablet for each patient (TV, video games, internet), but also patient education sites to learn more about a health condition or a pending procedure.
- **The Health Center will eventually have a fully-integrated electronic medical record system.**
  - So instead of a number of different clinical systems, there will be just one large integrated platform.
  - Physicians will be able to access information about their patient’s medical history even if they received treatments at different institutions, enhancing quality of care.

# TAMDEED PROJECTS

## Healthcare Project Key Learnings



- **Kiosks:** Wayfinding and the customer feedback kiosks scalable to register patients
- **Location tracking devices:** Patients( Neonatal and Psychiatry) and Mobile Medical equipment's are tagged with a active RFID to track them with real time location based system.
- **Electronic status boards:** These displays in waiting areas and direct patients to respective treatment rooms. Display news and health care information.



# Closing Thoughts



- No matter how exciting the new technology, it won't matter if the building's infrastructure can't handle it
- Naturally, hospitals envision standard based digital technologies as a solution that provides patient experience and comfort for healing.







# Thank You!

Learn more about Tamdeed Projects  
Nations Premier Communication Infrastructure Provider  
– in our What's New What's to Do Session



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