

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



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The New Al Ain Hospital a 'Healing Oasis'









The New Al Ain Hospital Case Study

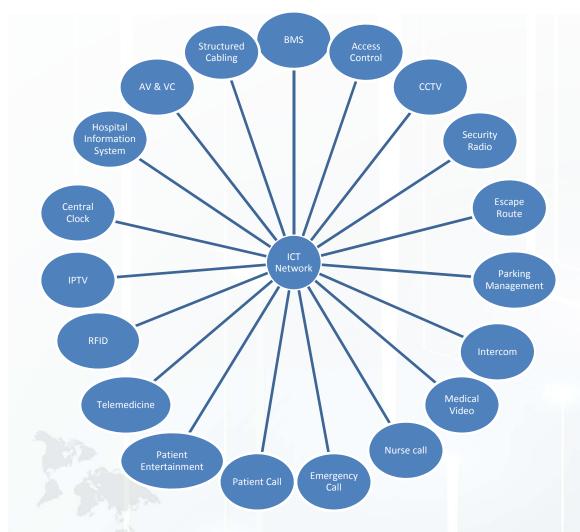
Abu Dhabi General Services Company (Musanada) / Abu Dhabi Health Services Project

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'







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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