

KFUPM University, Kingdom of Saudi Arabia

Hytera DMR Serves King Fahd University of Petroleum & Minerals

User

King Fahd University of Petroleum & Minerals (KFUPM), Saudi Arabia

Market segment

Education

Project time

2016

Products

Hytera DMR Trunking Lite
DS-6211 Trunking Base Station
MD78XG Mobile Radio
X1p Portable Radio
PD70XG Portable Radio

Solution Feature

DMR Trunking Lite System with 4-carrier BS
Powerful Dispatching System
Voice Recording System
PSTN/PABX Gateway
NMS System
UPS Solution
300 DMR Trunking Terminals



Background

King Fahd University of Petroleum & Minerals (KFUPM) was established on 23th September, 1963. KFUPM is the leading university for science and technology and provides the best education in Saudi Arabia. Each year, KFUPM trains and sends qualified personnel to the most famous companies, like Saudi Aramco, SABIC(Saudi Arabia Basic Infrastructure Company), also to many other GCC countries. KFUPM used MPT system before, but they were not satisfied with the outdated system. In early 2016, Hytera provided Hytera DMR Trunking Lite Solution for KFUPM.

Customer Challenge

In daily operation, KFUPM leaders and staffs worked with a MPT radio system. However they found the voice quality was not good, especially when they were near the boundary of coverage and system lacked data service.

The customer wanted to build a safe & reliable digital communication network integrated with their existing telephone system, in which radios work together with their mobiles. Besides that, they also required more functions like AVL, visualized dispatching system, and voice recording system for playback. In addition, customers also required heavy duty terminals suitable for the dusty and hot weather in KSA to support their daily work.



Solution

After the discussion with the customers and a detailed on-site survey, Hytera got to know the main requirements of the customer. In order to meet all of them, Hytera provided a full DMR solution.

Hytera provided a full-redundancy Base Station, with BSCU hot-standby, PSU, MCCH redundancy and UPS solution to guarantee the security and reliability of the system.

To ensure the safety, Hytera also provided the system with Authentication, ESN check, and AES 256 bits Encryption.

Besides that, Hytera provides NMS, DWS, Voice Recording System and some other feature as some individual customer needs, like kill, stun, revive, etc.

To integrate with the telephone system, Hytera provided PSTN/PABX gateway and SMS alarm modem, which can send alarming message to mobiles.

Benefits from Hytera Solution

Improved audio quality

With digital error-correction technology, the DMR solution is capable of ensuring superior voice in noisy environments or at the edge of the coverage area.

Reduced ownership costs

Benefiting from the TDMA technology, the system doubles the channel capacity based on the same spectrum resource which is very expensive in KSA.

Versatile functionalities

Now customers could have access to rich data services and selectable functions such as Message, Dispatching, AVL, NMS, Whole System Voice Recording, Radio-Telephone Call, etc .

Reliable terminals

Hytera DMR portables are strictly compliant with IP67 standards, ensuring outstanding performance even under harsh environments.

Secure communication

With the AES end-to-end encryption of the digital technology, customers can get an enhanced encryption capability, ensuring the confidentiality of each call.



Hytera Communications Corporation Limited

Stock Code: 002583.SZ

Address: Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, P.R.C.

Tel: +86-755-2697 2999 Fax: +86-755-8613 7139 Post: 518057

Http: www.hytera.com marketing@hytera.com

HYT, Hytera are registered trademarks of Hytera Communications Corp., Ltd. © 2020 Hytera Communications Corp., Ltd. All Rights Reserved.