

Nationwide System for Mobile Operator

Hytera TETRA System Serves Qatar Commercial Telecommunication

User
Ooredoo, Qatar

Market segment
Operator

Project time
2013

Products
Hytera TETRA Solution
ACCESSNET-T IP
4 DMX-500 switching nodes and IP nodes
70 DTX-500 and DIB-500 base stations
Several dispatchers and voice recorders

Solution features

- Nationwide TETRA mobile radio system for voice and data communication
- Reliability due to highly redundant system design
- Connection to the public telephone network
- Integration of various dispatchers and voice recorders for different user groups
- Flexible expansion of the mobile radio system
- Upgrade of the system software under full load



Background >>

In 2006, the Emirate of Qatar on the Persian Gulf was the host for the Asian Games, an Olympic-level competition for the countries in the Asian region. For this major sporting event in which more than 10,500 athletes took part, Hytera integrated a secure TETRA communication system for the organisers and the security forces.

After the Asian Games, the mobile network operator Qtel (renamed to Ooredoo in 2013) engaged Hytera to expand the existing TETRA mobile radio system. Ooredoo wanted to expand the use of the TETRA mobile radio system by offering voice and data services to businesses and organisations in Qatar, looking for a secure two-way radio service. This is the world's first nationwide TETRA mobile radio system to be used commercially, rather than specifically for public safety. The network now has over 27,000 registered subscribers and 250 customers.

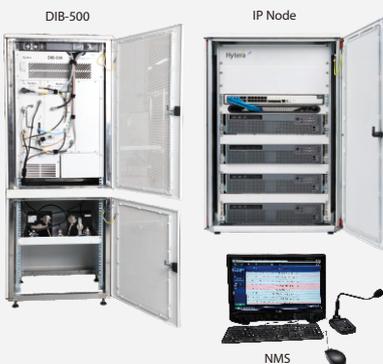
Customer Demands >>

The increasing demands of communication service had been an obsession to Ooredoo:

Growing business calling for larger network: Autonomous communication is provided to numerous independent businesses via the operator Ooredoo. The User groups include businesses in the oil and gas industry, taxi businesses or even airports. As the clients group is growing bigger, daily calls are increasing greatly. Network with the high requirements on transmission quality, reliability and capacity is needed.

Client management: Along with the higher number of users, the extremely high performance is also needed to be guaranteed. Numerous of clients from different industries need to be classified into specific groups and authorizations, which is a formidable task for Ooredoo.

System adaptation & upgradable: To be cost-effective, Ooredoo wants to retain comprehensive legacy systems, calling for the new system to integrate with legacy ones as well as easy to expand and upgrade.





Hytera Solution >>

Hytera TETRA ACCESSNET-T infrastructure comprises four switching nodes with 70 base stations connected to these nodes in a ring configuration. The comprehensive network management system provides efficient network monitoring even with high network utilisation. In addition, Ooredoo profits from the ability to provide straightforward and quick administration of users. Extensive redundancy functions guarantee a high degree of reliability with back-up provided for network connections and control channels, along with additional geographic redundancy for the switching elements to ensure continuous radio operation.

One of the strengths of the Hytera solution is the way it enables the convenient integration of different applications. Customers are completely free as to how they use the mobile radio system, as well as what applications they choose to deploy on it. The system allows for a high degree of adaptability with user groups assigned dedicated applications via the multifunctional A-CAPI interface. The largest user group, Doha International Airport, deploys its own dedicated dispatchers and voice recorders, for example. The TETRA mobile radio system offers Ooredoo a very high degree of flexibility with high network capacity and minimal maintenance costs. End users are guaranteed reliable, high quality, individual voice and data communications.

Values brought by Hytera Solution >>

- Very flexible, nationwide system with very high network capacity
- Fully integrated network management system
- Maximum stability due to highly redundant system design
- Flexible integration and configuration of applications via the multifunctional interface
- Continuous availability during system software upgrades and other additions



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