A nationwide system for Ooredoo

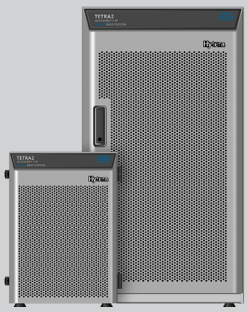
TETRA for commercial telecommunication in Qatar

Customer
Ooredoo (formerly Qatar Telecom, Qtel)

Project time period
2004 to present,
extensions in 2006, 2010
and 2014 (E1 zu IP migration)

Products
- Mobile radio system ACCESSNET®-T IP
- 6 IPN switching nodes
- More than 100 base stations DTX-500, DIB-500, DIB-R5 and DIB-R5 outdoor
- Several dispatchers and voice recorders

Description of solution
- Powerful 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
- Secure investment through guaranteed compatibility with E1 and IP technology
- Upgrade of the system software under full load



DIB-R5



DIB-R5 outdoor

OPERATOR NETWORK (PAMR)

ACCESSNET®-T IP for Qatar

In 2006 the Emirate of Qatar on the Persian Gulf was the host for the Asian Games, an Olympic-level competition for the countries of the Asian region. For this major event with over 10,500 athletes, an efficient communication system for organizers and security forces was essential. Our high-performance TETRA mobile radio system provided the perfect solution and replaced a limited analog radio network.

Since the Asian Games finished, the operator Ooredoo (formerly Qatar Telecom, Qtel) has continued to use the operator model of our rugged system for voice and data communication. With over 27,000 registered subscribers, our powerful solution is the world's first commercially used nationwide TETRA mobile radio system.

A solution that succeeds

Via the operator Ooredoo, our nationwide TETRA system in Qatar provides more than 290 independent companies with self-sufficient voice and data communication. User groups include companies in public security and the oil and gas industry in addition to those from the local public transport industry, shopping malls, event and construction companies, taxi firms and even airports. As the world's largest commercially used TETRA system with more than 250,000 calls daily, it is dimensioned such that the high requirements on transmission quality, reliability and capacity are met.

Along with the high number of users, the extremely high performance is also demonstrated by the flexible adaptation of the comprehensive system: Around 2,600 independent call groups are configured. Each of these groups can contain different authorizations and functions.

Our TETRA system offers the customer the highest possible security of investment and future-proof technology. Since 2005 we have implemented several additions and relocated network components; we have also implemented software upgrades under full load. The users did not suffer any restrictions during ongoing usage as a result of these feature and capacity additions.

Our mobile radio solution in detail

Our user-orientated mobile radio system ACCESSNET®-T IP comprises six switching nodes. 100 base stations are connected to these nodes in a ring configuration. The comprehensive network management system provides efficient network monitoring even with high network utilization. In addition, Ooredoo profits from the straightforward, quick administration of users.





Extensive redundancy functions guarantee a high degree of reliability: Thus redundant network connections, control channels and additional geographical redundancy for the switching ensure continuous radio operation.

A strength of our solution is the convenient integration of different applications. Customers are completely independent on the usage of the mobile radio system as well as on the selection of applications. They profit in particular from the high degree of adaptability of our mobile radio system: Some user groups are assigned dedicated applications via the multifunctional A-CAPI® application interface. The largest user group, Doha International Airport, uses dedicated dispatchers and voice recorders, for instance.

Qatar: Figures and facts

Geography

- Emirat on the Persian Gulf
- Capital: Doha
- Area: 11.606 km²

Population

- 2.700.000 inhabitants

About Ooreedoo (Qatar Telecom, formerly Qtel)

- Ooredoo is one of the leading international telecommunications companies with over 100 million customers in the Middle East, North Africa and South-East Asia
- With around two million customers in Qatar, Ooredoo is one of the most popular telecommunications companies

TETRA for Qatar: Highlights of our solution

+ Very flexible, nationwide TETRA 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 A-CAPI® interface
+ Continuous availability during the system software upgrade and other extensions
+ Very high degree of adaptability of the system at the lowest level
+ Support provided by the Hytera TETRA Center of Competence in Bad Münder, Germany

Precisely what you need: Solution from Hytera Mobilfunk GmbH

Each of our mobile radio systems is a customized solution with optimal performance. No matter how difficult the conditions are. or who the manufacturer of the teminals is. Customers in 40 countries on four continents are already using our solutions: in industry, oil and gas business, public security and local public transit systems, at airports and for military applications. Besides the first-class technology from Hytera Mobilfunk GmbH, they particularly value one aspect: our holistic, customer-oriented project management with which we solve problems before they occur.

Hytera
Respond & Achieve

Hytera Mobilfunk GmbH

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