

ExxonMobil

Benefits



- Combined onshore and offshore network
- Interfaced to SIP and E1 telephony
- Seamless integration with PAGA system

Client overview



ExxonMobil™

ExxonMobil Corporation is the world's leading publicly-owned energy company, operating to the highest standards of financial and technical excellence, business ethics, safety, health and environmental awareness. ExxonMobil, through its affiliates, has a presence in some 200 countries and territories.

ExxonMobil upstream affiliates in Nigeria operate several joint venture concessions and deep water production sharing contracts, which currently focus on major secondary oil recovery projects; natural gas liquids and gas monetization and significant investment in national content development.

Mobil Producing Nigeria is one of three Nigerian subsidiaries of ExxonMobil. It began operations in 1955. Mobil Producing is the second largest producer of crude oil in Nigeria.

3 hours ago we did the cutover in Mobil, 0 down time, 0 failures, the system is up with first push on the button with all sites connected, all existing terminals were registered to the new systems with out noticing the change over. Huge achievement for Rohill & us.

After the switch over the user groups noticed and some commented:

“Call setups are extremely faster than with our previous system”

“Improvement of audio quality; clear and intelligible”

“Improvement of audio quality from TETRA to telephone and from telephone to TETRA”

“Dead spots in onshore coverage no longer exist”



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Project challenge



The existing, earlier generation TETRA communication network of Mobil Producing Nigeria had become at the end of its economic lifetime and needed urgent replacement. After a tendering process that was successfully secured by Rohill and their local Partners, delivery and migration plans were worked out in concert with ExxonMobil.

Preconditions were that the same frequencies had to be re-used and the complete fleet-map including the complete numbering plan with all their communication groups and access profiles had to be kept, because ExxonMobil only replaced the TETRA infrastructure for a latest technology one and not the radio fleet hand portable and mobile radios. One frequency was made available for on-site field-tests after the equipment was put at all locations. All field-tests were successfully finished. The new network used new and redundant IP backbone and also new feeders and antennas were installed.

And after thorough preparation the new network went live unnoticed in just a few mouse clicks while the old base stations were one by one disconnected from the power.



Solution



This high availability oil & gas network is built around a geo-redundant TetraNode eXchange High End; four offshore Base Station Systems and eight onshore Base Station Systems, with 48 TETRA carriers in total.

The network is interconnected with a SIP and an ISDN-Primary Interface and a gateway to analogue channels / Public Address and General Alarm. A dispatching system based on Line Dispatch System Chameleon and a location positioning system.

The network is monitored by NodeView and the Network Management System.

