

Creating Borderless Oil and Gas Platform

UAE oil refiner optimizes field collaboration, production awareness, and operational excellence.

Customer Name: TAKREER

Industry: Oil and Gas

Location: United Arab Emirates

Business Impact

- Increased productivity through improved access to tools and information
- Greater collaboration between plant and field workers
- Real-time insight into sensor data and processes



Case Study

Business Challenge

The Abu Dhabi Oil Refining Company (TAKREER) was established in 1999 as a public joint-stock company. It specializes in the refining of crude oil and condensate, the supply of petroleum products, and the production of granulated sulfur.

As part of a major development program, the TAKREER Ruwais Refinery Expansion, the company is building a new refinery based on the latest industry innovations, including a gas oil hydrotreater, hydrocracking unit, and a vacuum unit, to make low-sulfur fuel.

Key requirements for the new refinery included a state-of-the-art IT infrastructure, providing 50 buildings and remote workers with instant access to communications and tools, including Enterprise Resource Management and seismic profiling applications. To help ensure compliance with TAKREER's high standards for health and safety, the network also needed to support video and IP closed-circuit television (CCTV) cameras in the future.

Solution and Results

Working with the ABB Group, TAKREER's lead contractor, Cisco partner Site Technology helped develop and implement a [Cisco® Borderless Network](#). Specially customized for oil and gas companies, the solution provides a platform to integrate communications and applications in a way that delivers significant improvements in three critical areas: field collaboration, production awareness, and operational excellence.

By its very nature, refinery operational areas are hazardous spaces in which movements and activities of all personnel need to be closely tracked and controlled. Productivity and workforce safety are significantly improved by optimising the availability and delivery of applications to help ensure employees receive the information that they need to safely go about their work.

TAKREER can now gain greater insight by securely networking sensor data and transforming it into operations intelligence. Examples could include using the network to measure process health: temperature, pressure, vibration, corrosion, emissions, spill, leaks, and other key indicators.



“We chose Cisco for several reasons. We knew we would be getting a market leader and excellent value for money. And, because Cisco has over 400 employees in the UAE, we had the added comfort of local presence and support if we needed it.”

TAKREER

For More Information

To learn more about Cisco is helping oil and gas companies to transform, please go [here](#)

For more information on Cisco Borderless Networks, please go [here](#)