



Working with Schlumberger, Cisco® is delivering a new wireless service called First Mile Wireless that provides connectivity to extend the office experience out to oil and gas fields. The “first mile” in the oil field refers to the critical connectivity of drilling sites or producing fields into a wider network. The new solution creates the platform for advanced sense-and-respond capabilities that enhance asset productivity and optimization.

The secure connectivity provided by the First Mile Wireless solution is a critical early step towards the digital oil field. It enables operators and their partners to better manage drilling and production operations through an innovative fabric of wireless sensors, distributed computing networks, and service-oriented applications.

Improving Productivity Through a Wireless Environment

Oil and gas exploration and production companies see an increasing need to improve visibility to the edge of their operations. By unwiring the first mile, these companies can:

- Improve decision making by sensing the current state of the asset and responding more rapidly
- Improve efficiencies by giving field workers access to applications and data at the point of activity
- Improve knowledge transfer between experienced staff and their younger colleagues
- Improve productivity by analyzing data in real time to predict problems and take early corrective action

To make these advances, oil and gas companies need:

- High-speed, secure access for data, voice, and video communications
- High-frequency, secure data collection for improved visibility
- Improved operational workflows to take advantage of improved visibility
- A rich collaboration environment between field and central office workers

First Mile Wireless from Cisco and Schlumberger will extend the “observe, orient, decide, and act” cycle from the office through the first mile to the exploration and production assets and operations. This interactive environment will close the gaps in IT coverage and information availability between assets, data, models, plans, and decisions for activities such as hydrocarbon field development planning, production operations and optimization, and well and reservoir surveillance.

Setting Up the Foundation for the Digital Oil Field of the Future

In addition to enabling better productivity for today’s asset operations, First Mile Wireless provides the foundational connectivity for the digital oil field operations of the future.

With digital oil field practices, operators will be able to improve planning and modeling cycle times and reduce the associated uncertainties. They will also be able to improve collaboration between development, drilling, and production teams.

Regardless of the maturity of an operator’s digital oil field program, a critical first step is to provide first mile connectivity. First Mile Wireless provides Cisco’s secure, robust, resilient infrastructure, including strong identity management, physical and network security, and proactive operations management to ensure high availability of oilfield assets on a continuous basis.

Solution Highlights

- Voice, video, and data collaboration between field and office workers
- Reliable, high-speed, real-time access to surveillance data
- Secure and manageable connectivity
- Automation of well intervention

Customer Benefits

- Extending scarce technical skills to improve production decisions in the field
- Reduction in field downtime and increased reservoir production
- Rapid deployment of devices and services
- Lower cost of ownership and management

Contact

To learn more about how First Mile Wireless solutions from Cisco and Schlumberger help you get better oil field performance, please contact us at:

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