



RedMAX™ - Oil Rig Application Note

Reliable, instant connectivity is vital to oil and gas producers. Disruptions or delays in critical communications often prove extremely costly and can even pose danger to people, equipment and operations. Connecting multiple, disparate oil-drilling platforms and operations requires an advanced network that cost-effectively delivers high performance voice, video and data services under adverse and sometimes hostile environmental conditions.

Redline's RedMAX™ family of products deliver the high performance, reliable and flexible communications solutions that oil and gas companies need. Previous solutions, including satellite connections, were costly and did not provide the required bandwidth. RedMAX WiMAX solutions overcome the performance limitations and high cost associated with other technologies to deliver the reliable, high-speed, data, voice and video connectivity needed to establish and maintain critical, remote links over large distances. Lost connectivity, productivity and revenue are now a thing of the past with WiMAX solutions that can deliver wireless broadband connectivity and the advanced services needed to seamlessly bridge land-based and remote off shore facilities.



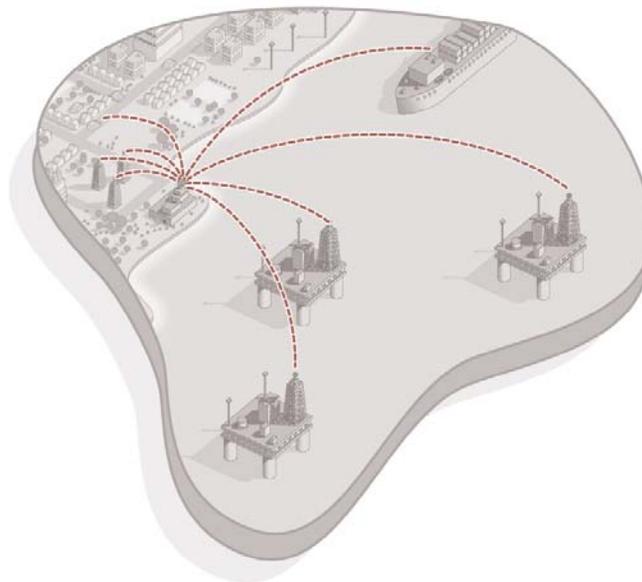
The RedMAX™ Advantage

Redline's RedMAX family of WiMAX Forum Certified™ wireless broadband solutions enable the cost-effective delivery of mission-critical information including data for the oil rig's equipment, changing weather conditions and other delay-sensitive data. For example, Health and Safety platform and operations integrity inspections and work progress can now be monitored via high resolution video with images instantly sent over the RedMAX wireless network. This significantly reduces onsite and labor-intensive inspections costs.

In addition, RedMAX wireless broadband systems can be encased in a variety of industry-approved cabinets and other enclosures to meet the strict safety requirements for oil patch deployments.

With RedMAX, resource companies can connect multiple sites using the most advanced wireless broadband products available today. They have the ability to rapidly deploy and manage their wireless broadband service and the flexibility to evolve it to include nomadic, portable and fully mobile components that connect all areas of their business.

RedMAX gives resource enterprises the ability to establish reliable line-of-sight or non-line-of-sight connections over distances up to 50 kms (31 miles). Using advanced encryption, Redline ensures secure, real-time delivery of sensitive data.



SETTING THE STANDARD FOR ADVANCED BROADBAND WIRELESS



We chose Redline's WiMAX solutions to replace our existing VSAT network connecting our remote onshore rigs and Mediterranean Sea platforms to our head office in Cairo. With RedMAX, our throughput and operational efficiency dramatically increased - and our recurring network management expenses have decreased by almost 75%."

**Said Rehad,
IEOC of Egypt**

About Redline Communications

Redline Communications is the leading provider of standards-based wireless broadband solutions. Redline's WiMAX Forum Certified™ systems and award-winning backhaul and transport products enable service providers and other network operators to cost-effectively deliver high-bandwidth services including voice, video and data communications.

Redline is committed to maintaining its wireless industry leadership with the continued development of WiMAX and other advanced wireless broadband products. With more than 30,000 installations in 75 countries, and a global network of over 100 partners, Redline's experience and expertise helps service providers, enterprises and government organizations roll out the services and applications that drive their business forward.

Key Features

- WiMAX Forum Certified™ solutions
- Carrier-class, Point-to-Point and Point-to-Multipoint base station platform
- Adaptive, scalable and secure design architecture
- Exceptional range up to 50 kms (31 miles)
- Outstanding low latency performance
- Strong encryption using AES or DES
- SNMP manageable
- Deployed in clusters of up to six sectors
- Remote management capabilities
- 2nd generation 802.16 MAC
- 3rd generation OFDM PHY
- Dynamic QoS
- Adaptive modulation functionality
- Superior non line-of-site performance
- Ease of installation and relocation

Strategic Benefits

- Cost-effectively establish critical communications links delivering secure, robust data transport services
- Seamlessly connect multiple, remote locations to corporate, land-based facilities
- Simplify network management to significantly reduce ongoing costs
- Use proven OFDM technology to provide overcome wind, humidity and changing path conditions to deliver disruption-free broadband connectivity
- Automatically adjust to changing network conditions for maximum link reliability
- Reduce installation, relocation and redeployment time and costs
- Provide immediate communications links in any situation
- Reduce expensive, labour-intensive activities to improve operational efficiency

The Wireless Broadband Technology Advantage

Wireless broadband solutions can be quickly rolled out or repositioned without incurring costly re-deployment expenses typically associated with traditional network technologies. Operators and enterprises can cost-effectively provision and manage new connectivity, monitoring and disaster recovery services whenever and wherever they are needed. By quickly rolling out high-capacity wireless broadband networks, organizations can immediately and significantly improve their operational efficiency.

WiMAX Solutions

WiMAX Forum Certified™ solutions are based on the IEEE 802.16 open standards and enable the delivery of fixed, nomadic, portable, and mobile last mile broadband wireless access. WiMAX interoperability gives network operators the ability to choose from a large ecosystem of WiMAX Forum Certified™ products from a growing list of vendors. The interoperability of WiMAX solutions brings economies of scale that drive lower prices and give both operators and enterprises more choice in selecting wireless broadband solutions that build best-in-class networks.

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