



Iridium® Connectivity for the Oil & Gas Industry

Extend Communications in Ways Never Thought Possible

The Iridium Certus® and Iridium® Push-to-Talk services extend communications coverage beyond the reach of terrestrial and cellular infrastructure for oil and gas companies, whether at the job site or while conducting exploratory and surveying work. As the only communications company offering truly global coverage, Iridium's superior combination of satellite voice and data solutions are ideal for supporting critical connectivity needs regardless of location, terrain and weather conditions. With Iridium, oil and gas companies can be confident in knowing they've chosen a communications solution that will work wherever and whenever needed.

The Iridium® Network

The unique architecture of the Iridium constellation provides inherent advantages in performance and reliability over other mobile satellite service providers:

- ▶ 66 cross-linked satellites with multiple overlapping spot beams provide a reliable communications experience that includes coverage redundancy.
- ▶ Iridium's network provides truly global coverage and minimizes line-of-sight issues.
- ▶ Low-Earth orbit provides a shorter transmission path with less signal attenuation.
- ▶ L-band frequency is resilient to adverse weather.

Overview

Iridium Certus sets the new standard for remote communications and connectivity for enterprises and individuals that want to extend their use of mobile networks into remote areas, without having to deploy ground-based infrastructure or expensive terminals. With mobile IP data speeds debuting at

352Kbps, upgradable to 704Kbps, this single platform delivers a reliable, simultaneous connection for data access, multiple voice lines, and location-based applications. Iridium's low-latency network also supports over-the-top smartphone applications, allowing messaging and push-to-talk services to operate together for a consistent user experience anywhere on the planet.

Iridium Push-to-Talk (PTT) is built for speed, allowing teams to connect instantly and securely. With the Iridium PTT product portfolio, deployed oil and gas company teams have access to unparalleled situational awareness and instant group communications without the expense and limitations of traditional ground-based towers and repeaters.

Oil & Gas Markets

- ▶ Upstream - Gas Exploration, Drilling and Evaluation
- ▶ Midstream - Transportation and Distribution
- ▶ Construction of job sites and work camps
- ▶ Work site backhaul and companion/backup service

Products

Unlike Geostationary (GEO) terminals that require complex and expensive steerable antennas or manual pointing to connect, Iridium terminals feature small, solid-state, omnidirectional antennas that automatically connect with the closest Iridium satellite when pointed toward the sky, allowing for simple set-up and use. Iridium Certus integrates with the **Thales MissionLINK™** terminal that enables oil and gas workers to make phone calls, send email and transfer files. Iridium PTT-enabled products are lightweight and easy to use on the move. They extend existing communications for lone workers, by working beyond the limits of traditional terrestrial networks. The Iridium PTT products are essential to help maintain consistent communications across the inhospitable and sometimes hazardous environments in which oil and gas companies often operate. Iridium PTT solutions, like **Iridium Extreme® PTT** and our Icom partner's product, the **IC-SAT100**, enable workers to connect with far-away and dispersed groups on an as-needed basis and mitigate risk in any situation with fast, simple, two-way communications. Also, the devices are interoperable with each other and with third-party land-mobile radios, allowing workers to extend the reach of their communications further than ever.

Key Advantages

- ▶ **Highly Mobile** – The Iridium network is built for the mobility needed by the oil and gas industry - allowing vehicles and personnel to remain in contact while operating in remote areas without having to stop and set up network access.
- ▶ **Robust Products** – Robust, rapidly deployable devices are easy to set up and use by oil and gas workers.
- ▶ **Multi-Service Connectivity** – Through a multi-service communication and connectivity service platform, Iridium Certus offers high-quality voice and IP data, as well as streaming data coming soon. The Iridium Extreme PTT provides telephony and push-to-talk, all in one device.
- ▶ **Best Value** – Iridium Certus is offered over high-quality Iridium Certus™ terminals with low-cost, omnidirectional antennas, as well as least-cost-routing options and visibility of data usage. Iridium PTT offers flat-rate, unlimited push-to-talk communications.
- ▶ **Reliable Coverage** – Iridium products are enabled by a network of 66 cross-linked satellites that provide service anywhere on the planet, even in adverse weather conditions, without compromise.



Partners: Thales and Icom
Enabling Service: Iridium Certus® and Iridium® Push-to-Talk

Only One Communications Company Connects the Entire Globe

Iridium commands the world's furthest reaching network, making it the only truly global communications company with solutions that span from pole-to-pole. Iridium voice and data products provide superior communications solutions that allow global companies, government agencies and individuals to stay connected everywhere. With a unique, global ecosystem of partners, Iridium continues to create new, high-value capabilities that are leading the world into a new era of communication.

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