

Alvarion: Pumping Up Productivity

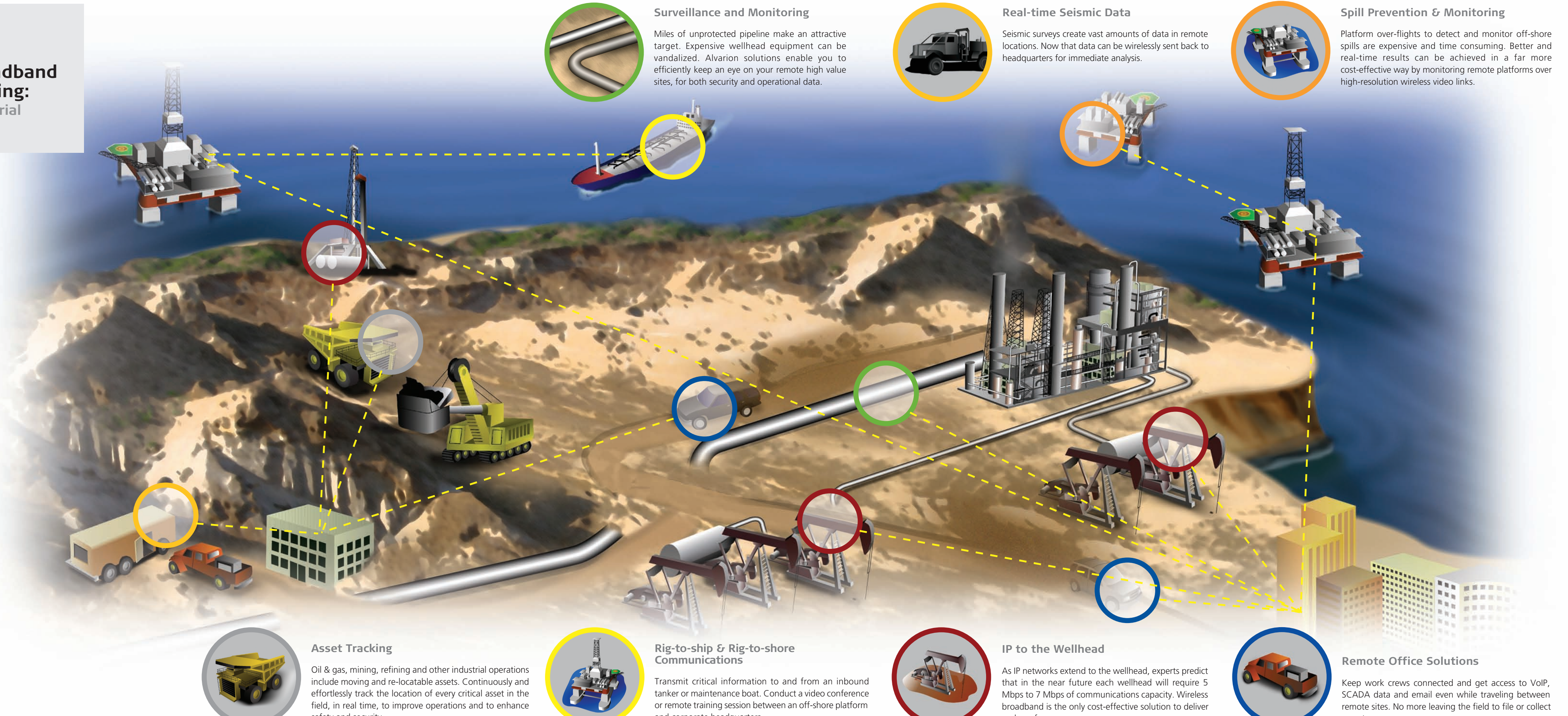


Few markets have more to gain from reliable, high-capacity wireless broadband solutions that cover dozens or even hundreds of square miles than the oil & gas industry. Reduced lifting costs, remote video surveillance, VoIP and even multi-megabit mobile access over water or on wheels can be delivered under a single solution. But the big benefits can only be realized using solutions that are specifically designed for the harsh oil & gas environment.

Oil, Gas & Industrial Applications



**Alvarion's Broadband
Wireless Offering:**
Oil, Gas and Industrial
Communications



Surveillance and Monitoring

Miles of unprotected pipeline make an attractive target. Expensive wellhead equipment can be vandalized. Alvarion solutions enable you to efficiently keep an eye on your remote high value sites, for both security and operational data.

Real-time Seismic Data

Seismic surveys create vast amounts of data in remote locations. Now that data can be wirelessly sent back to headquarters for immediate analysis.

Spill Prevention & Monitoring

Platform over-flights to detect and monitor off-shore spills are expensive and time consuming. Better and real-time results can be achieved in a far more cost-effective way by monitoring remote platforms over high-resolution wireless video links.

Asset Tracking

Oil & gas, mining, refining and other industrial operations include moving and re-locatable assets. Continuously and effortlessly track the location of every critical asset in the field, in real time, to improve operations and to enhance safety and security.

**Rig-to-ship & Rig-to-shore
Communications**

Transmit critical information to and from an inbound tanker or maintenance boat. Conduct a video conference or remote training session between an off-shore platform and corporate headquarters.

IP to the Wellhead

As IP networks extend to the wellhead, experts predict that in the near future each wellhead will require 5 Mbps to 7 Mbps of communications capacity. Wireless broadband is the only cost-effective solution to deliver such performance.

Remote Office Solutions

Keep work crews connected and get access to VoIP, SCADA data and email even while traveling between remote sites. No more leaving the field to file or collect reports.

Communications Infrastructure in the Oil Field: Wireless is the Way

The oil patch is a dynamic place where things constantly change, the environment is unforgiving and the locations are often remote. It is a place where function is everything, and everything has a purpose. That purpose is to squeeze out every possible drop of productivity. In the modern oil field effective communications networks are key to enabling and maximizing efficiencies and driving down overall lifting costs. Today, the best communications infrastructure technology for the oil & gas industry is wireless broadband.

Unlike traditional point-to-point microwave, wireless broadband or “WiMAX” refers to wireless cells many miles in diameter, each enabling anyone or anything within the footprint to be connected. This “multipoint” method of access is very economical and provides extremely reliable links and excellent redundancy options to ensure that you remain connected. Solutions from Alvarion can provide over 120 Mbps of capacity in each such cell – enough to support many concurrent applications across the operational region.

Alvarion in the Oil Field: As Rugged as the People, Places, and Machines it Must Connect

Alvarion is the global wireless broadband and WiMAX leader and is legendary for its rugged gear. Whether the need is a televised expedition to the summit of Mt. Everest, scientific weather research up in the ionosphere or the remote operation of mining cars deep underground, Alvarion has been building broadband wireless networks in harsh environments for over a decade.

Alvarion manufacturing is ISO certified and its products undergo rigorous environmental testing to include salt spray, water immersion, and dust intrusion. Alvarion’s award winning products enjoy a mean time between failure (MTBF) of over 11 years. All of which explains why from the Gulf of Mexico to the oil fields of Venezuela to the Yellow River delta in China, Alvarion’s WiMAX and wireless broadband access solutions are deployed by many of the leading oil & gas companies.

Alvarion’s oil & gas solutions offer unequalled coverage and capacity – to over 300 square miles and over 120 Mbps throughput per cell, supporting frequencies 800 MHz to 28 GHz and address the major bands of every global region and regulatory authority. And by offering both licensed and unlicensed solutions, regardless of where in the world your field is located, Alvarion has a wireless solution to suit your needs.

With built-in hardware based AES encryption, virus protection features, advanced VLAN support, you always know that your network is secure. And with Alvarion’s advanced technology offering over 250 simultaneous VoIP calls per sector, real-time prioritization of multimedia packets like video and QoS mechanisms, you can be confident your network will support the diverse mission critical applications you need to provide.



**Keep an Eye on
Critical Remote Assets**

Headquarters

International Corporate
Headquarters
Tel: +972.3.645.6262
Email: corporate-sales@alvarion.com

North America Headquarters
Tel: +1.650.314.2500
Email: n.america-sales@alvarion.com

Sales Contacts

Latin America & Caribbean
Email: lasales@alvarion.com

Australia
Email: australia-sales@alvarion.com

Brazil
Email: brazil-sales@alvarion.com

China
Email: china-sales@alvarion.com

Czech Republic
Email: czech-sales@alvarion.com

France
Email: france-sales@alvarion.com

Germany
Email: germany-sales@alvarion.com

Hong Kong
Email: hongkong-sales@alvarion.com

Italy
Email: italy-sales@alvarion.com

Ireland
Email: uk-sales@alvarion.com

Japan
Email: japan-sales@alvarion.com

Mexico
Email: mexico-sales@alvarion.com

Nigeria
Email: nigeria-sales@alvarion.com

Philippines
Email: far.east-sales@alvarion.com

Poland
Email: poland-sales@alvarion.com

Romania
Email: romania-sales@alvarion.com

Russia
Email: info@alvarion.ru

Singapore
Email: far.east-sales@alvarion.com

South Africa
Email: africa-sales@alvarion.com

Spain
Email: spain-sales@alvarion.com

U.K.
Email: uk-sales@alvarion.com

Uruguay
Email: uruguay-sales@alvarion.com

For the latest contact information in your area, please visit:

www.alvarion.com/company/locations



About Alvarion

With more than 2 million units deployed in 150 countries, Alvarion is the world's leading provider of innovative wireless network solutions enabling personal broadband services to improve lifestyles and productivity with portable and mobile data, VoIP, video and other applications. Providing systems to carriers, ISPs and private network operators, the company also supplies solutions to extend coverage of GSM and CDMA mobile networks to developing countries and other hard to serve areas.

Leading the WiMAX revolution, Alvarion has the most extensive deployments and proven product portfolio in the industry covering the full range of frequency bands with both fixed and mobile solutions. Alvarion's products enable the delivery of business and residential broadband access, corporate VPNs, toll quality telephony, mobile base station feeding, hotspot coverage extension, community interconnection, public safety communications, and mobile voice and data. Alvarion works with several global OEM providers and more than 200 local partners to support its diverse global customer base in solving their last-mile challenges.



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The following field-proven Alvarion systems are ideal for improving communications and operational efficiency in oil, gas and industrial operations: BreezeACCESS®, BreezeNET®, BreezeMAX™.