



CUSTOM-BUILT COMMUNICATION SOLUTIONS FOR THE OIL AND GAS INDUSTRY



Tough solutions for tough environments

The oil and gas industries operate in some of the world's most challenging environments, both onshore and offshore. Any disruption to production and distribution operations is extremely costly and must be dealt with quickly and efficiently. Robust, adaptable and intrinsically safe voice and data communication solutions are essential to keep oil and gas operations running smoothly. CASSIDIAN® solutions have the answer.

Oil and gas operators face a range of potential threats that could disrupt operations at any time, ranging from bad weather and accidents to equipment failure and even sabotage. Companies rely on effective communication to manage both day-to-day operations and emergency situations.

Communication systems must be robust and intrinsically safe, with excellent voice quality to ensure that vital messages get through. The systems must also be versatile, reliable and available at all times.

Oil and gas operators can get an ideal response to all these challenges from Cassidian's radio communication solutions.

Investing in radio communications can improve efficiency and security, which delivers a broad range of cost savings. By combining these benefits with an optimised system architecture and transmission technologies, Cassidian delivers a proven low total cost of ownership throughout the lifetime of the solutions.



Adaptable voice

Professionals typically need group voice communication to disperse information rapidly to everyone who needs it. Cassidian's radio communication solutions can support any organisational structure, including providing virtual private networks (VPNs) for user groups who need to operate securely. An authorised user can easily reorganise the groups to enable anyone connected to the system, whether fixed or mobile, to work together when needed.

Normal one-to-one voice calling is also available.

Radio communications from Cassidian offer a comprehensive range of features, including:

- Emergency calls
- Direct mode operation
- Dynamic groups
- Priority setting and pre-emption
- Group scanning
- Ambient listening
- Status messaging and short data services (text messaging)
- Data communication, including IP and high speed data
- Encryption
- Integration to command and control systems

Versatile data

Radio communications from Cassidian support text messaging and status messaging without any additional equipment. This gives everyone instant access to the latest alerts and safety information using group messaging.

Furthermore, connecting the radio system to existing IT systems brings many new opportunities to work more efficiently. For example, positioning applications give supervisors better situational awareness, while the ability to query databases remotely gives radio users rapid access to information without involving anyone else. Typical oil and gas facilities already pass instrumentation and supervisory control systems. Bringing the radio system into the loop extends data access to include wireless locations and mobile users.



Flexible ownership models

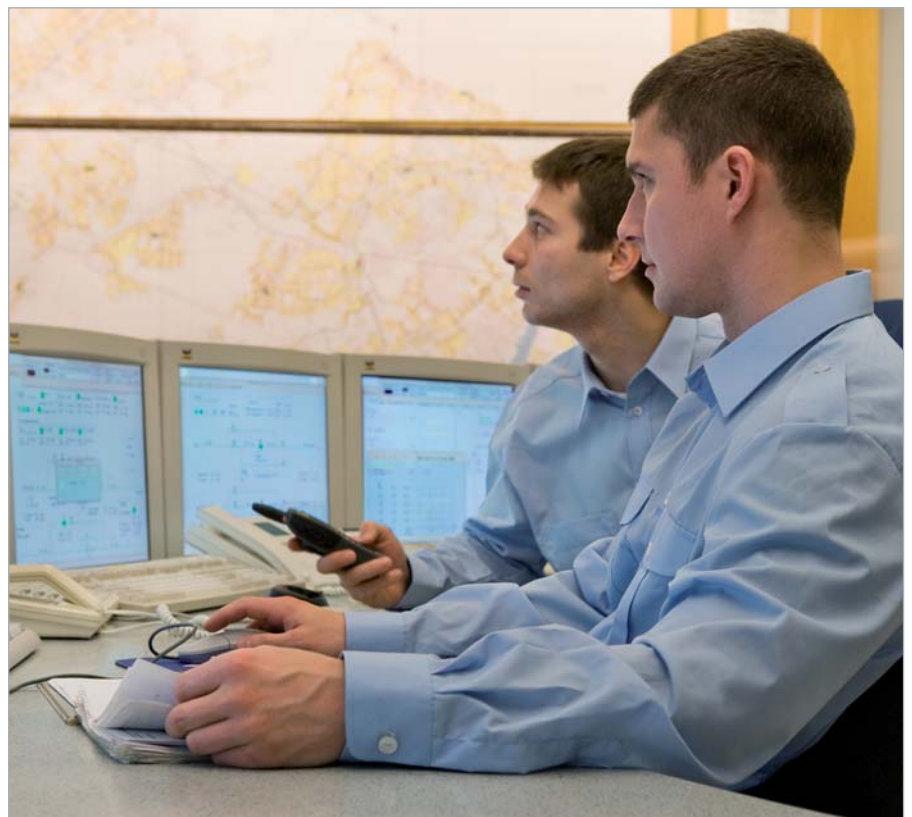
Some users may want to spread the cost by sharing their tailor-made radio communication system with other organisations, such as transport or security companies in the same area. Another possibility is to set up a VPN on the existing radio system. For example, the biggest oil company in Finland is using the public safety network, as well as that of municipal utility, Helsinki Energy.



Opt for the right tools

Cassidian's radio portfolio includes a range of fully-featured, intrinsically safe Ex radio terminals for mobile, vehicle and fixed use. The terminals support open standards, and in addition, they are designed particularly to capitalise on the features available in Cassidian's radio systems.

Our mission-critical terminals meet the toughest demands in the oil and gas industry, as proven by their excellent track record in these and other professional applications, including the emergency services.



Trusted solutions from a reliable supplier

Supporting Pan American Energy's efficiency drive

In Argentina, Pan American Energy (PAE) has chosen a TETRA radio system provided by Cassidian. The aim of the new system is to improve efficiency, as well as supporting the company's health, safety and environmental protection strategies.

PAE lists several advantages for its new communication solution:

- Its flexibility enables PAE to support different organisational configurations when working with contractors and subcontractors
- Comprehensive management systems enable PAE to supervise the users, system and system components, while the automatic generation of statistical reports supports efficiency improvements
- Rapid, accurate messaging boosts situational awareness
- The system is purpose built for emergency response situations. A "military" style organisational model kicks in when managing emergencies
- Direct Mode Operation, in which terminals communicate with each other without network coverage, is an important tool for wide scale evacuations. It is also useful in areas where network coverage is uncertain.

Other oil and gas operators who have chosen Cassidian:

- Saudi Aramco (Saudi Arabia)
- Tomskneft (Russia)
- Surgutneftegas (Russia)
- Steag (Evonic), Germany
- VSTO pipeline project managed by Transneftsoy.

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