



Realize High Efficiency and Safe Production

Digital Communication Network for Oil&Gas



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Innovating for a Safer World



About Hytera

Hytera Communications Corporation Limited (SZSE: 002583) is a global leading provider of professional and private communications equipment and solutions, founded in 1993 and headquartered in Shenzhen, China. With voice, video & data, we offer faster, safer, reliable communication solutions for mission and business critical users, and facilitate them to achieve more in daily operations and emergency response, to improve organizational efficiency and make the world safer.

Hytera is committed to innovation and provides user-orientated critical communication products. Fully understanding the communication challenges the industrial users are facing in Public Safety, Energy, Transportation, Utilities, Commercial and other industry verticals, Hytera continuously invests in technology development and application innovation, and is committed to promoting most open communication standards from narrowband to broadband, including TETRA, DMR, PDT and LTE.

Across multiple technologies and standards, Hytera provides feature-rich, multi-media broadband applications, while ensuring reliable mission critical voice communications through narrowband technologies, to help customers be their best by improving their situational awareness, fostering multi-agent collaboration, and enhancing decision making process.

Hytera has more than 100 offices worldwide and more than 40% of our workforce is engaged in engineering, research and development. There are 10 global R&D centers located in Shenzhen, Dongguan, Harbin, Hebi and Nanjing in China, Bad Munder in Germany, Cambridge in the UK, Zaragoza in Spain, and Vancouver and Toronto in Canada. The R&D centers collaborate to keep Hytera at the forefront of the communications industry and are dedicated to developing leading technologies into solutions that our customers can count on to meet their real time communications challenges. With its extensive network of dealers and partners, Hytera is proudly serving customers in over 120 countries and regions around the world.

Hytera is committed to delivering reliable products with a high standard of quality. Hytera's smart factory in Shenzhen incorporates intelligent warehousing and logistics systems. Another important part of the global supply chain is the manufacturing center in Zaragoza, Spain, which focuses on customizing our products to meet the specific needs of our European and American customers.

Hytera also incorporates many leading sub-brands within the industry. Teltronic, headquartered in Zaragoza, Spain, is famous for developing TETRA systems in the rail transit industry; Norsat, headquartered in Vancouver, Canada, is the world's leading provider of professional satellite communications equipment and solutions; Sinclair, headquartered in Toronto, Canada, is the world's leading smart antenna brand; and HYT provides a brand of analog products under the Hytera umbrella.



The Oil&Gas industry faces some technological and operational challenges, and as we know, digital technology will be used as a tool to improve productivity, reduce costs, and to provide deeper and more useful analytics enabling businesses to make better, faster and more effective decisions.

As a leading solution provider in PMR market, Hytera propose and integrate different solution to offer reliable, secure voice and data for the communication network.



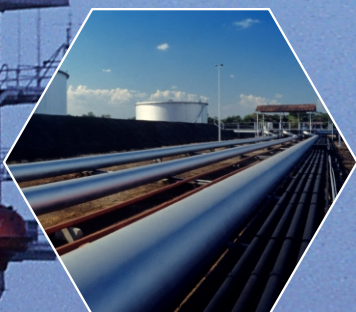
Exploration

- **Advanced Telecom Solution**
- **Fast Deployment Solution**



Production

- **Digital Oilfield Solution**
- **Mobile Office Solution**



Pipeline

- **Digital Pipeline Solution**
- **Intrinsically Safe Solution**



Refinery

- **Intelligent Communication**
- **Smart Work Order System**
- **Intelligent Indoor Positioning**



Oil Transportation

- **Unified Management Solution**
- **Online Monitoring Solution**

Exploration - Advanced Communication



Advanced Telecom

Hytera advanced voice and data service, including video as required, let you know all the real time working situation and GPS information of your teams.

Intercommunication between different systems such as satellite phone, CCTV, PSTN, on site network with command control center and public networks in HQ would be smooth and reliable.

Fast Deployment

Smooth communication between front line and control center can always be set up instantly with Hytera communication solutions, no matter they are in wild desert or distant ocean. All the equipment are easy for transportation and taking along to keep your team connected anytime and anywhere.

Benefits

•Fast Deployment and Easy Transportation

All the equipments are small and light , so they can be fast deployed and removed easily.

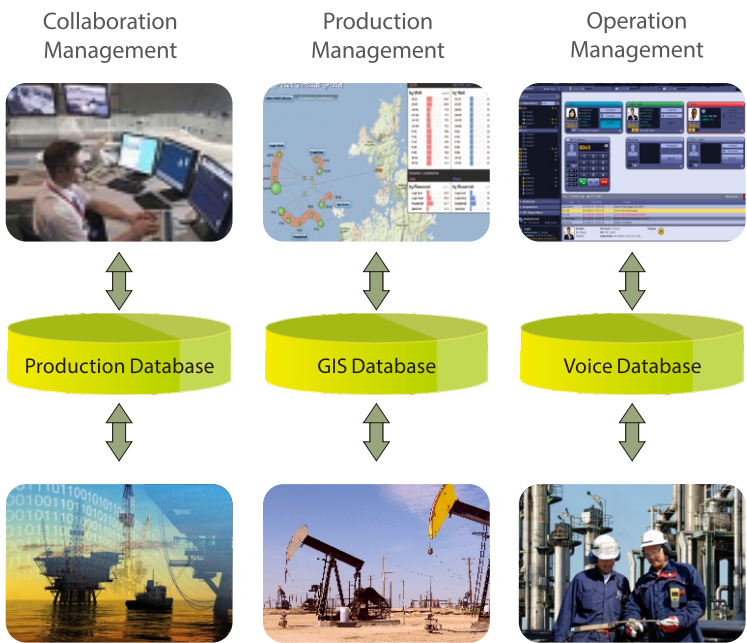
•Tough Radios for Tough Jobs

They meet demanding standards: U.S. Military Standards 810 G and H which is the highest American military standard, IP68 for submergibility in water.

•Enhanced Safety as You Need

ATEX/IEEx/FM/CSA/UL913 intrinsic safety certified radios with the features of GPS, man down, emergency call and lone work.

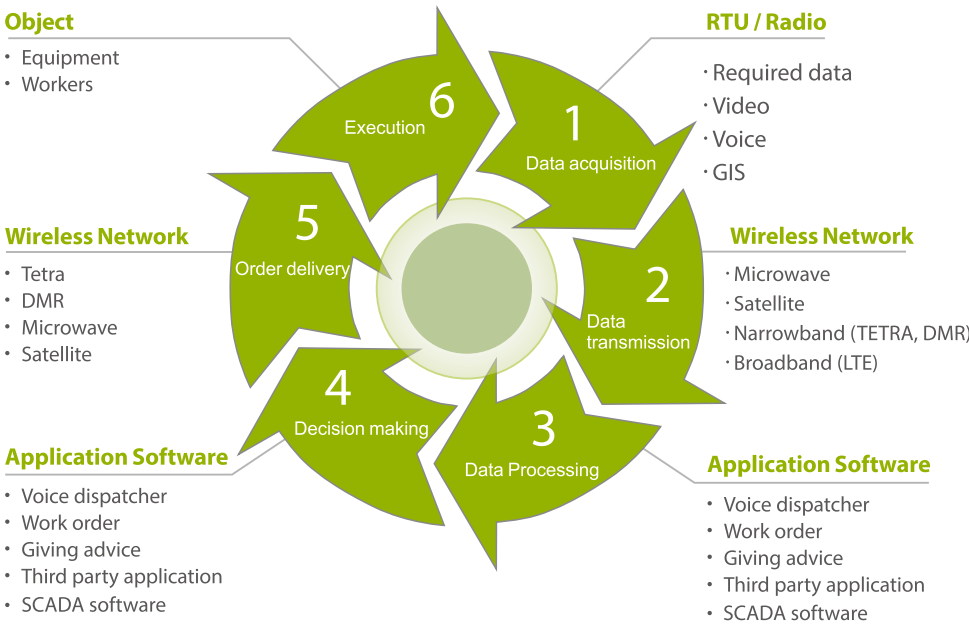
Production - Digital Oilfield



Digital Oilfield is one where operators, partners, and service companies seek to take advantage of improved data and knowledge management, enhanced analytical tools, real-time systems, and more efficient business processes.

All the required data, including video, voice, GPS, patrol information, SCADA and IoT data, are collected by terminals and transferred to application server through network layer. So our solution can let you know all the conditions of frontline and help you in data processing and decision making. To ensure the order from control center is fully executed, our closed loop management system will be very effective.

Hytera dual mode terminal with industry APP would bring great convenience for the front operator as to support voice and data with less device.



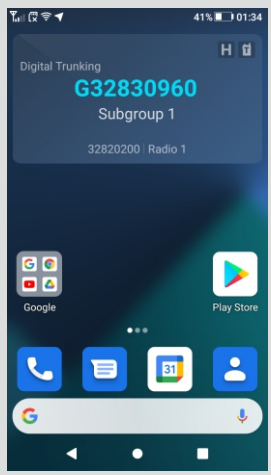
Benefits

- **Multiple applications to support rapid decision-making**
With Hytera solutions, third party buffers and sensors can be integrated to enrich management application for our customer.
- **Audio, video and data recording**
All the voice, video and data information including GPS, SMS, time of power on and off can be recorded and stored in server for possible future investigation.
- **Flexible networking solution**
Different solutions could be integrated and proposed to customer based on Hytera rich product range, including narrowband, broadband, satellite, P-IoT, command and control center and other applications.

Transportation - Digital Pipeline

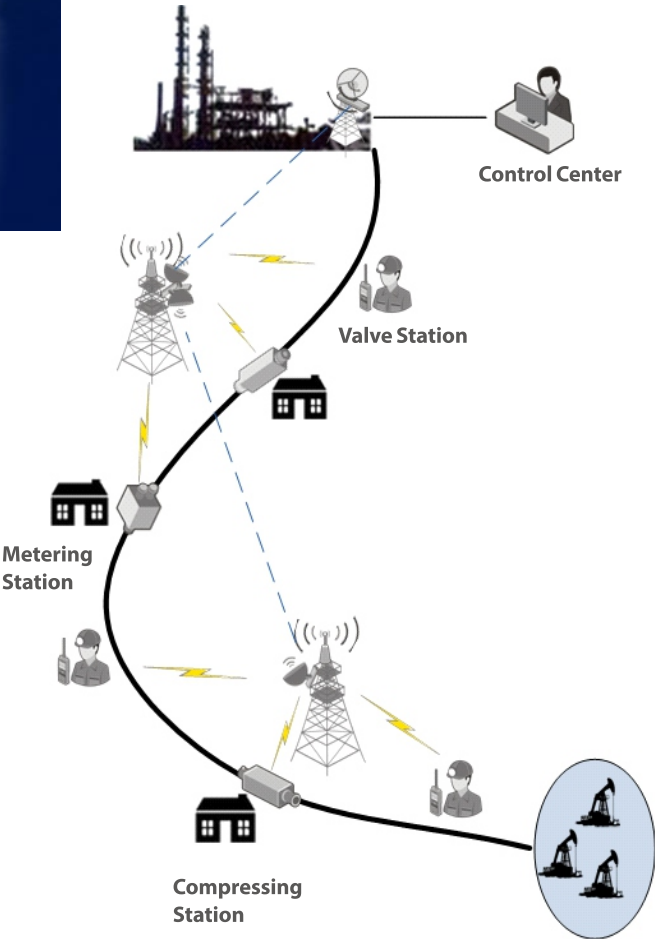
Digital pipeline solution makes your extremely long pipeline short on the sensory. And you can realize improvements in integrity, safety, compliance and operational efficiency.

Hytera wireless radio solution can not only provide voice and video service for your teams, patrol information, SCADA and IoT data service for the monitoring center, but also the mobile office application for the inspection teams and could integrate all networks in one platform with unified command control solution. And the emergency network would provide more adequate protection from the team with flexible deployment.



Benefits

- **Know it entirely**
Make it possible to know what's happening throughout of the pipeline anytime and anywhere
- **Operate it easily**
Make the pipeline controllable and ensure the most efficient way of on site collaboration
- **Protect it well**
Establish first responder capability to effectively respond to emergencies.



Refinery - Intelligent Management



Intelligent Communication Platform

Intelligent communication platform enable PSTN, broadcasting, SCADA and PMR network intercommunication between public network, broadcasting, PMR network smooth and reliable.

Video surveillance, RFID tags used in patrol solution and remote sensors play very important roles in refinery, Hytera intelligent communication platform can be used to wirelessly enable these monitoring devices for safer production and higher working efficiency.

Benefits

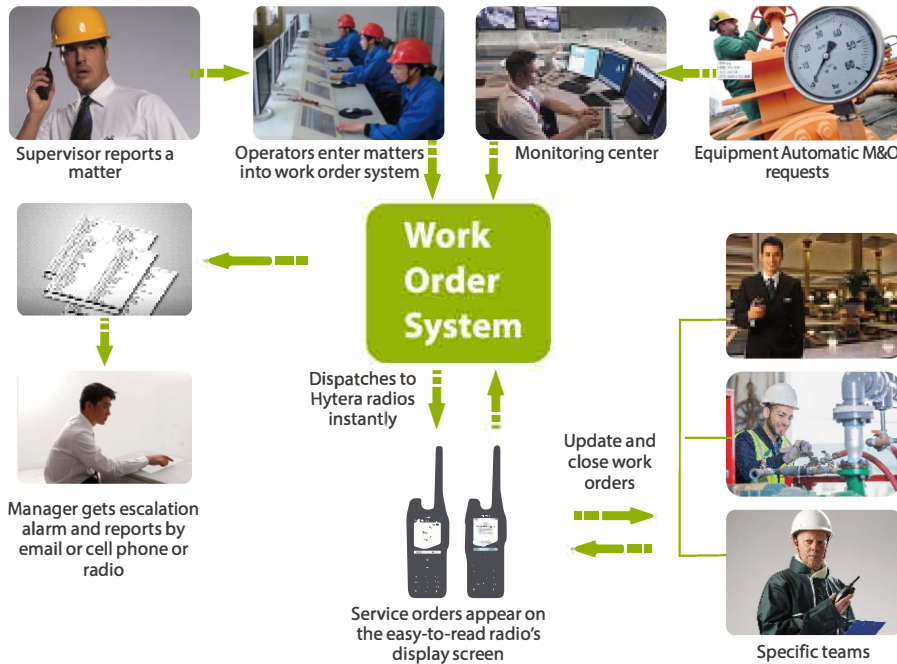
- **Integrated communication platform**
Ensure communication between different networks possible and convenient.
- **Making communication always easy**
With multiple and flexible coverage solutions, there is no blind area including Electromagnetic shielding infrastructure and basement.

Smart Work Order System

Every day, thousands of information come up from various sources such as production equipment, monitoring devices, assets and supervisors. That how to handle so much information efficiently is always borne in mind of mangers. To achieve this, Hytera developed this smart work order system to process the information and dispatch work automatically. It would be more efficient with Hytera dual mode terminal with industry APP application.

Benefits

- **Improved efficiency**
Employees are connected to the information they need through one radio.
- **Increased productivity**
To provide your teams with the most timely, accurate and effective massages.
- **Faster response**
Your teams can better coordinate and response to their missions and incidents.



Oil Transportation - Management In One Platform



Unified Management Solution

Based on one platform, unified dispatch is able to coordinate the resources more efficiently for all transportation oil tanker.

Online Monitoring Solution

Integrated with GPS information and some other industry application, the oil tanker could be monitored anytime and anywhere to improve the management ability and safety control ability for customer.

Intrinsically Safe Solution



In oil and gas industry from upstream to downstream, safety is on the top of everything, which is based on ATEX, IECEx, FM and UL913 principle of restricting the electrical energy in hazardous areas. All the radios, audio accessories and third party sensors that integrated within Hytera's solutions are Intrinsically Safe (IS) certified to meet the basic IS requirement of a system.



Safe (IS) Terminals

*For more Intrinsically Safe (IS) terminals, please check with our local partner or visit our website <http://www.hytera.com>