



Oil and Gas

High-Performance
Network Infrastructure:
Solutions for the
Oil and Gas Industry

Oil and gas networks: The challenges keep growing along with global demand



Picture your global organization:

- Engineering, Procurement and Construction (EPC)
- Exploration and drilling, onshore and off
- Plants and refineries
- Operations and point of sale

From upstream to downstream, your company deals with non-stop challenges like these:

- The world's harshest, most hostile environments
- Constantly changing regional policies, laws and regulations
- Global geopolitical trends and forces
- High costs of exploration, assets and equipment, and skilled resources
- The drive to manage operating costs in a volatile market
- Need to quickly analyze large quantities of complex data
- Stringent safety and security standards

Where do you need high-performance communications and connectivity?

What could be jeopardized if even a single point of contact is down – even for a minute or two?

How are you addressing the everyday needs that require an extraordinary network?

With today's high stakes and time-sensitive demands, oil and gas companies like yours know that high-performance network infrastructures are critical to meeting their ambitious goals. CommScope can help you deliver upstream and downstream.

Your broadband, wireless and enterprise infrastructure:

Only CommScope delivers it all

We understand your industry and your mission-critical environment. You can count on us for infrastructure solutions for communication networks that enable you to do what you do best. Our wired and wireless solutions are designed to meet and exceed standards for current and future applications. And you can trust CommScope network support for performance, quality and dependability.

You can depend on one of the industry's widest and most comprehensive product portfolios. Through the Andrew® Solutions brand, we are a global leader in radio frequency subsystem solutions for wireless networks. Our SYSTIMAX® and Uniprise® brands provide a complete, end-to-end physical layer solution that includes cables and connectivity, enclosures, intelligent software and network design services tailored for your environment. No matter where you or your assets may be located, we deliver the right copper, fiber, intelligence and wireless solutions to meet your global needs in the oil and gas industries.

How CommScope helped Santos optimize its corporate network

To keep up with the fast-paced global environment, Santos – one of Australia’s largest domestic gas producers – equipped its new purpose-built headquarters with CommScope solutions. With global operations spanning places like Indonesia, Vietnam, India and Egypt, both on and offshore, Santos needed to support end-to-end 1Gb/s connections to 5,000 outlets with the scope to upgrade to 10Gb/s transmission speeds in the future. At the same time, the network had to run reliably with minimum downtime and operating costs.

“ We wanted a cabling infrastructure with performance that could comfortably support network-intensive oil and gas industry applications – both now and in the future,” said Garry Rowe, Team Leader, IT Operations at Santos. “The applications supported by cabling, including VoIP telephony, can generate high peaks in network traffic. So we needed infrastructure that helps ensure fast response from all our systems when the network is very heavily loaded.”

With features like a 20-year product warranty, high-speed performance and network design services, CommScope and its breadth of solutions were the clear choice for Santos’ oil and gas network needs.

We support your site selection sectors for better ROI with expert Pre-FEED and FEED support

Site selection is vital to the design and construction phases of building greenfield plants and refineries. Stakeholders depend on Pre-FEED and FEED (Front-end Engineering Design) studies and services to help ensure that project expenditures will generate returns on investment. CommScope supports both the upstream and downstream sectors with services and solutions to help meet site selection goals.

Our Global Services Team goes beyond what you might expect from a communications infrastructure provider, delivering a suite of services that support design and construction growth. Our engineers and design specialists support EPC engineering teams and integrators in creating conceptual designs, timelines and budgets during the early phases of the construction project cycle, as well as providing logistical support for telecom products and indoor telecom engineering design for low-voltage systems.



PROJECT MANAGEMENT

WEBTRAK

- WebTrak provides written documentation of CommScope copper and fiber optic cable performance, allowing you to conveniently track a reel of cable and verify performance after shipment.
- Online test reports are available for all SYSTMIX and Uniprise copper and fiber cables.
- Easy 24/7 access via www.commscope.com

FAT/IFAT

In coordination with the stringent requirements set forth during the Factory Authorized Testing as defined by the Testing Methodology documents of an EPC, CommScope offers many programs around the globe to support the FAT and IFAT functions.

PROJECT SUPPORT

- Voice/data cabling
- Fire alarm
- Intrusion
- Access control
- CCTV
- Auxiliary systems
- Controls and instrumentation
- Distributed Antenna Systems (DAS)
- VSAT
- Wireless
- Paging systems

Get the products you need for the latest, real-time oil and gas applications

Our high-performance network infrastructure solutions allow for real-time streaming of well data and video monitoring without placing additional strain on network bandwidth. For in-building and onsite communications, our distributed antenna systems (DAS) and VSAT solutions enhance radio frequency and wireless coverage throughout plants and refineries. Our wired and wireless solutions bring unparalleled performance to security systems, access control, CCTV and instrumentation to ensure your operations run smoothly wherever, whenever.

Fiber & Copper Connectivity

- Network connectivity (voice/data)
- Life Safety Systems
 - Sensors and monitors
 - Controls and automation
 - Parameter fence solutions
 - Fire alarm backbone
 - CCTV

Network Support

- Streaming well data
- Video monitoring

Wireless Solutions

- Site network connectivity
- Microwave
 - 2-way radio
 - Communications coverage throughout plants and refineries
- DAS - Distributed Antenna Systems

CommScope Offers The Right Solution For Liquefied Natural Gas Plants

Upstream Pipeline Fiber, Downstream Plant, Temporary and Permanent Telecoms, Construction Camps, Administration Buildings



at home

It's a high-bandwidth world. Network operators face an escalating demand for digital voice, high-speed data, and high-definition video, as well as new technologies like fiber to the home and 3D TV. CommScope provides innovative optical and RF infrastructure solutions that help operators plan, deploy, and maintain services to residential and commercial customers.

- Outside Plant Coaxial and Fiber Optic Cables
- Headend Solutions
- RF Infrastructure Solutions
- Optical Network Solutions

at work

It's an intelligent world. High-speed networking, cloud computing, data center consolidation, and in-building wireless coverage are transforming the way businesses and public entities operate. CommScope solutions empower communication applications in the boardroom, operating room, and classroom...on trains, in airports, and in stadiums...and anywhere people gather for work and play.

- Category 6A and 6 Solutions
- OM4 Multimode and Single-mode Fiber Solutions
- Pre-terminated and Factory-Tested Solutions
- In-Building Wireless Solutions
- Intelligent Infrastructure Solutions

on the go

It's a wireless world. People want to connect anywhere, anytime, everywhere—all the time—including residents of some countries who are enjoying access to wireless communication for the first time. CommScope solutions span the entire RF landscape, helping wireless carriers manage increasing cell site complexity and optimize network planning, capacity, coverage, and performance.

- GeoLocation Solutions
- OneBase Insite® Connect
- Hydrogen Fuel Cell Cabinets
- Base Station Antennas
- End User Solutions such as network interface device, PON compatible micronode and battery backup
- Site Solutions such as RF Conditioning, Air Interface Backhaul, Energy Conservation, Transmission Line System
- Antenna systems for UHF/VHF, CDMA, GSM, 3G and WiMax

More ways you can count on CommScope products – first time, every time

When you deploy CommScope solutions, you join customers around the world in enjoying a wide range of support, including:

- **20-year Extended Product Warranty and Applications Assurance**

Because we have such high standards for performance and reliability, you can count on our unique, comprehensive coverage for a wide range of applications, including voice, data, video and automation systems.

- **The strength of a global provider**

CommScope's true, one-of-a-kind global offering addresses the unique network infrastructure needs and business requirements for oil and gas customers. Our global, regional and local support teams can assist you with product samples, cut sheets and design considerations. When network reliability is critical and downtime is not an option, global companies trust CommScope for its dedication to performance, quality and dependability. Technology leadership drives our product performance, and our commitment to a high-quality installation ensures that your oil and gas communications infrastructure is exceptionally reliable from day one and into the future.

- **CommScope Certified BusinessPartners**

Our solutions are sold in more than 130 countries worldwide and are supported through our global network of trained and certified BusinessPartners. No matter where you are located, CommScope delivers the right solution, with consistent, one-source product quality driven by technology leadership and our commitment to R&D investment.

Learn more about our oil and gas network infrastructure technology

Your broadband, wireless and enterprise infrastructure:

Only CommScope can deliver it all.

Visit us at www.commscope.com or contact your local CommScope representative or BusinessPartner.

CommScope solutions keep you connected upstream and downstream

Fiber and Copper Connectivity

- Single-mode and multimode
- Unshielded-twisted pair (UTP) and foil-twisted pair (FTP)
- Categories 5E, 6 and 6A
- Exceeding OM3 and OM4 standards
- Intelligence and Intelligence-Ready patching solutions
- Pre-terminated and factory-tested

Wireless Solutions

- Antenna Systems for UHF/VHF, CDMA, GSM, 3G and WiMAX
- In-building wireless antennas
- Transmission line systems
- VSAT solutions

Network Management

- Server and network cabinets
- Overhead racks
- Cable management

We're proud to be a part of your network's story.

Here at CommScope, we embrace our role as a trusted resource, partner and facilitator. We create the infrastructure that connects the world and evolves with every advance in technology. By investing all of our capabilities, resources, relationships, and products into your toughest challenges, we continue our long history of solving problems together – paving the way for new ideas and fresh ways of thinking. We're a trusted resource and partner around the world because we're invested in you: your people, your networks, your success. It inspires us to build relationships and infrastructure...connect people and technologies across protocols, oceans, and time zones...and share what we learn along the way. We'll never stop connecting and evolving the business of life at home, at work, and on the go. This is our promise to you. This is CommScope.



www.commscope.com

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