

Oilfield Communications Market – Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Service (Professional Service, Managed Service), By Communication Network (Cellular Communication Network, VSAT Communication Network, Fiber Optic-based Communication Network, Microwave Communication Network and Tetra Communication Network), By Field Site (Onsite Communication and Offshore Communication), By Solution (M2M Communication, Asset Performance Communication, Unified Communication, VoIP Solutions, Video Conferencing, Pipeline Supervisory Control and Data Acquisition, Fleet Management Communication, Oilfield to Control Center Data Communication, Wi-Fi Hotspot), By Region, Competition

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Abstracts

Global Oilfield Communications Market is growing rapidly owing to the increasing demand for cloud-based services in oilfield infrastructure. Cloud capability has become one of the significant factors offering cutting edge services for better efficiency, scalability, and customers' experience. Many enterprises are adopting oilfield communication technology as a cost-effective solution to bolster business operations

and supply-chain productivity. The high usage of energy coupled with increasing offshore oil production and ultra-deep water drilling discoveries are enabling the oilfield communications market. Moreover, the growth of the market is also on account of the increasing demand to reduce operational costs and rising investments in enhancing network infrastructure across the globe during the forecast period. Technology has become the key enabler of excellence and businesses are gradually changing the business process with the integration of 5G infrastructure as digitalization emerges, which is expected to boost the global oilfield communications market during the forecast period.

Oilfield communications refers to the technology used to gather information and data from onshore and offshore facilities and transmit it through communication networks. It helps with data manipulation, transmitting data between programs, eliciting responses and transaction processing. Technology integrates and transforms oilfield operations by bridging the gap between supply and demand. Oilfield communications businesses streamline the workflows, by enabling organizations to be more flexible, profitable, and responsive.

Network communication plays a vital part in this process while the reliable and fast network empowers oil & gas companies for streamlining business operations and to discover new remote offshore and onshore oilfields. Modern communications technology such as satellites, cellular networks and fiber optics have further streamlined mission-critical communications. With the integration of effective and reliable communication technologies, offshore workers can easily share oil drilling data with an onshore team. Oilfield communications are utilized to increase the efficiency of equipment, enhance infrastructure operations, and keep employees safe. Oilfield communication networks such as VSAT, fiber optic platform, cellular and microwave communication network are enabling businesses to automate more sophisticated data sharing, data security, and application performance management.

Increasing Investment in Enhancing Network Infrastructure

The exponential growth and the massive adoption of advanced technologies such as machine learning, artificial intelligence, cognitive intelligence, cloud is driving the oilfield communication market globally as due to the increasing investment in enhancing network infrastructure. As steadfast communication is required for supporting mission critical operations in the oilfields which requires reliable hardware. Over the years, many countries including GCC have invested heavily in improving their telecommunication infrastructure. Enterprises are rapidly combining Artificial Intelligence (AI) and cognitive

technologies with automation to extend the horizons of business processes. The infrastructure supports enhancement of health and safety policies, resource management, network connectivity and welfare of the crew. These benefits are leading to an increase in investment toward network communication to meet their ambitious digital transformation plans that are creating the demand for oilfield communications solution and has anticipated the growth of oilfield communications in the market.

Increasing Adoption of Cloud-based Services in Oil & Gas Industry

The increasing adoption for modern cloud-based technologies in the oil & gas companies are driving the growth of global oilfield communication market across the world as the cloud services offer improved real-time data, greater flexibility in infrastructure costs and adaptability to scale the data management and storage. Cloud-based technology such as computing services have become an attractive option to maintain and monitor production units, wells, and oilfields. The enterprises are transitioning and utilizing edge and cloud services to digitalize their assets, decentralize data processing and implementing SaaS solutions for operations. Cloud solutions have the potential to revolutionize with cutting-edge breakthrough technology, many new and exciting opportunities are being created for the oilfields. For instance, in March 2021, Notable Health, a leading provider of intelligent automation solutions for healthcare, partnered with the North Kansas City Hospital (NKCH) to accelerate the distribution of COVID-19 vaccines to Missouri-based residents. Moreover, the high computing power delivered via cloud platforms supports the adoption of other technologies such as the intelligent management of physical assets, which facilitates greater operational efficiency are enabling the massive use of cloud-based service capabilities in the energy sector. Thus, this increasing adoption for modern cloud-based technologies in the oil & gas industry is expected to drive the demand for oilfield communications in the market.

Growing Demand from Oil and Gas Operators to Scale the Production of Mature Oilfields and Reservoirs

The ever-changing consumer demand has enabled the rising need from oil & gas operators to scale the production of mature oilfields across various regions. Many enterprises are establishing new oil production plants in many areas as companies are investing heavily in exploring new oil fields, particularly in Asia Pacific. Additionally, the major oil exploration enterprises that are establishing their operations in harsh and remote areas are demanding the oilfield communications solution to advance their technologies in response to the increasing demand for high bandwidth communication.

The global population is increasing which has raised the demand for energy consumption. For instance, in 2023, according to the Energy Information Administration (EIA), a US Department of Energy statistical agency, the global consumption of petroleum and liquid fuels is predicted to be 100.48 million b/d, an increase of 1.1 million b/d from 2022. The establishment of oil fields production has enabled the awareness of security and production efficiency. The offshore oilfield communication interoperability platform helps reduce the risk of downtime by integrating and transporting real-time voice and data securely over any network with connectivity. Thus, the growing demand of oil production to accommodate consumer demands are propelling the growth of oilfield communications market during the forecast period.

Market Segmentation

The oilfield communications market is segmented on the service, communication network, field site, solution, and region. On the basis of service, the market is bifurcated into professional service and managed service. Based on communication networks, the market is segmented into cellular communication network, VSAT communication network, fibre optic-based communication network, microwave communication network and tetra communication network. Based on the field site, the market is bifurcated into onshore communications and offshore communications. The solution segment is further categorized into M2M communication, asset performance communication, unified communication, VoIP solutions, video conferencing, pipeline supervisory control and data acquisition, fleet management communication, oilfield to control center data communication, and Wi-Fi hotspot.

Market Player

Major market players in the global oilfield communications market are Siemens AG, Huawei Technologies Co. Ltd, Baker Hughes Incorporated, Inmarsat PLC, Speedcast International Limited, ABB Ltd, RigNet Inc., Alcatel-Lucent International, Tait Communication, and ALE International.

Report Scope:

In this report, the global oilfield communications market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Oilfield Communications Market, By Service

Professional Service

Managed Service

Oilfield Communications Market, By Communication Network

Cellular Communication Network

VSAT Communication Network

Fibre Optic-based Communication Network

Microwave Communication Network

Tetra Communication Network

Oilfield Communications Market, By Field Site

Onshore Communication

Offshore Communication

Oilfield Communications Market, By Solution

M2M Communication

Asset Performance Communication

Unified Communication

VoIP Solutions

Video Conferencing

Pipeline Supervisory Control and Data Acquisition

Fleet Management Communication

Oilfield to Control Centre Data Communication

Wi-Fi hotspot

Oilfield Communications Market, By Region:

North America

United States

Canada

Mexico

Asia-Pacific

China

Japan

South Korea

India

Singapore

Malaysia

Europe

United Kingdom

Germany

France

Italy

Spain

South America

Brazil

Argentina

Colombia

Middle East

UAE

Saudi Arabia

South Africa

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the global oilfield communications market.

Available Customizations:

With the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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