

CIOReview

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OIL & GAS EDITION

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20 Most Promising Oil and Gas Solution Providers - 2019

The oil and gas companies are facing significant difficulties in terms of continuous price volatility and inflationary costs on wages and raw materials and the increasingly stringent environmental standards. To sustain their supply of crude oil or gas, these companies are not only looking to extend the life of mature sites but also seeking new sources for transportation and refinement. They aim to ensure reliability of their plants by eliminating any chances of unplanned shutdowns and increasing the throughput with secure industrial assets. To navigate through this fast-evolving environment, the oil and gas sector should embrace emerging technologies for increased productivity, safer operations, improved operational efficiency, better safety, and cost savings.

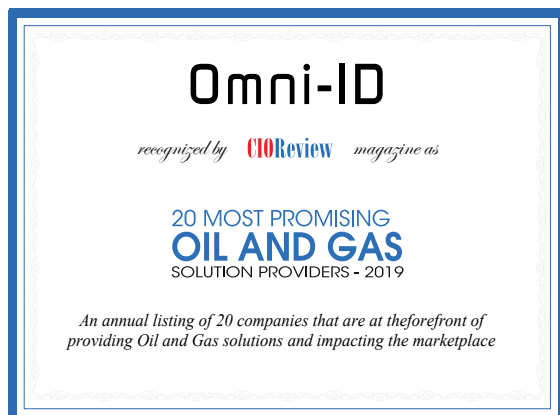
The industry is leveraging innovative technologies like IoT, edge computing, and the cloud to achieve growth. At present, many oil and gas companies are moving to cloud-based platforms to host their business applications and leverage artificial intelligence (AI)-based applications for greater process control and improved self-

service. They are also using blockchain technology in areas such as supply chain, logistics, trading, joint ventures, and production accounting to enable successful digital transformation and redefine data governance.

Further, asset performance management and “digital twin” initiatives are driving the development of innovative new solutions for managing critical assets across the upstream and downstream operations. Although the significant technological innovations in the oil and gas market help businesses boost prosperity in their long-term growth and innovation agendas, CIOs find it difficult to choose the right partner among a plethora of vendors in the market.

To help CIOs navigate through the list of oil and gas solution providers, our distinguished selection panel, comprising CEOs, CIOs and VCs, industry analysts and the editorial board of CIOReview narrowed the 20 most promising oil and gas solution providers 2019 that exhibit competence in offering efficient solutions.

We present to you CIOReview’s “20 Most Promising Oil and Gas Solution Providers - 2019.”



Company:
Omni-ID

Description:

A RFID technology leader and Pioneer providing the oil & gas industry IoT-based asset tracking, compliance, and material flow management solutions. Omni-ID's versatile portfolio of award-winning products provides a complete range of tags with unprecedented accuracy in any environment

Key Person:
Tony Kington
President & CEO

Website:
omni-id.com

Omni-ID

Rugged, Reliable Asset Tracking from Beginning to End

Imagine an inspector who works at a 2-acre oil & gas extraction field. As part of his morning task, the inspector is due to check the status of more than 10,000 equipment assets. Since these assets need to be serviced or replaced quarterly or bi-annually, the inspector must have the means to both track and anticipate the location and movement of every last piece of equipment. It's a matter of safety—if a 20,000 lb. pressure valve isn't replaced when it should be, the extraction field is exposed to the risk of a catastrophic accident. How would the inspector track the health levels of so many equipment



Tony Kington

validation—we are geared up to serve the oil & gas industry with customized solutions,” explains Tony Kington, CEO, Omni-ID. Whether it's by facilitating seamless hydrofracking compliance for info-sharing between oil field owners and specialists or designing RFID tags to fit every valve, joint, swedge, or tubular pipe, Omni-ID's solutions are reducing labor and improving safety for its clients.

In its drive to bring innovations to serve the oil & gas industry, Omni-ID is on the brink of launching a new suite of products that utilize the Lower Frequency RFID protocol. With an in-built GPS unit combined with sensors, the new RFID technology will cover read distances for up to 6 miles. “This technology will allow

“The objective is to provide Oil & Gas companies a flexible product that allows them to accurately locate assets over a large area, for a minimum infrastructure cost

assets? The answer would be embedding the equipment on the field with radio-frequency identification (RFID) tags that “check in” with an app on the inspector's handheld device. However, regular market vendor RFID tags won't suffice in the face of extreme conditions. The oil & gas industry needs rugged RFID hardware that can survive the rigors of harsh drilling environments, track compliance requirements, and integrate with an existing ERP system.

Omni-ID, a pioneer in the application of IoT technology in the oil & gas sector, specializes in creating customized RFID tags that can withstand a significant amount of mechanical wear and tear. Having developed patented technologies for on-metal tagging to enhance asset tracking, inventory management, and material flow management, Omni-ID has emerged as the go-to RFID solution for oil & gas companies. “At every layer of our operations—from engineering to manufacturing, and product

validation—GPS locations of assets to be read and reported back to a central system over a range of five miles by a single read point,” says Kington. Based on a low-power wide-area network (LPWAN), the product will incorporate a lower chip for communication, to effectively reduce infrastructure costs. The product can be integrated into any mass-market asset management or ERP system. “The objective is to provide oil & gas companies a flexible product that allows them to accurately locate assets over a large area, for a minimum infrastructure cost,” adds Kington.

Besides the low-frequency RFID, Omni-ID will be introducing a new line of Bluetooth Low Energy (BLE) devices that will have read characteristics for up to 100 meters. Since Bluetooth technology is prevalent among a myriad of devices, the product has the potential of reaching scores of new applications where RFID tracking could not be utilized. In addition, Omni-ID already has a broad portfolio of passive UHF RFID products that possess the read capability of up to 30 feet.

Driving ahead, Omni-ID was recently acknowledged at the RFID Journal LIVE Show with awards for products designed specifically for—the Delhi Mumbai Industrial Corridor (DMIC) and the Prysmian Group. Both demonstrated the true value that RFID Technology delivers to their industry. “As the original patent holders for on-metal RFID tagging, innovation is part of our DNA. We will continue bringing the best in IoT hardware to the industrial market,” concludes Kington. **CR**