RigCLOUD®

The oil and gas industry’s next-generation cloud platform uniquely designed for hosting any software, analytics programs or other applications at the rig site.

NABORS
As the drilling industry continues to embrace automation and advanced analytics at the rig site to increase the safety, reliability and efficiency of operations, there is a need for applications and a technical infrastructure which supports advanced technologies.

The RigCLOUD® platform is the oil and gas industry’s next-generation cloud platform uniquely designed for hosting any software, analytics programs or other applications at the rig site. Its capabilities include high-frequency data collection, data integration, streaming data analytics, hosting of drilling applications, process automation, remote access and remote operations as well as other office systems integration. In summary, the RigCLOUD® platform can provide a single platform for a Company’s current and future drilling applications in a seamless, flexible, independent cloud-based solution.

The RigCLOUD® platform offers service providers to easily host and deploy third-party applications without having to worry about the required capital investment to create an infrastructure to deploy and host at rig sites or to integrate with offsite systems. This seamless and tight integration of various systems and solutions enables the customer to gain optimal value from automated software controls and equipment automation, process automation or advisory automation. Additionally, the RigCLOUD® platform provides open architecture that addresses the challenges of integration with open architecture and security.

The RigCLOUD® platform empowers drilling application developers to quickly deploy their trusted applications that are computing-resource optimized, secure and scalable without worrying about providing hardware and deploying application stacks at the rig site. The RigCLOUD® platform provides on-demand cloud computing platforms on a paid subscription basis with multi-tier pricing options available. With a simplified “pay as you consume” pricing model, RigCLOUD® platform customers can easily adjust capacity as needed.

The RigCLOUD® platform integrates seamlessly with rigs owned by various drilling contractors. In addition to drilling contractors, service companies and other application providers can host their third-party applications in the platform, making them readily accessible at any rig site.

For those specific customers who want to consolidate all their well data in one central location, regardless whose rig or electronic drilling recorder (EDR) provider they are using, they can do so by using a RigCLOUD® Adapter (RCA) to feed data from different EDR providers to the platform at the data center. As such, these customers will continue to receive the benefits of the data analysis, drilling applications and other solutions by all offsite users.
RigCLOUD® Infrastructure and API

Services & API

- Security & Authentication
- Event Detection
- Unified Messaging
- Alarming & Notification
- Advanced Analytics
- Data Acquisition & IoT
- Reporting
- Visualization

Infrastructures

- RigLINE 24/7™
- Cloud
- Edge-DC
- Integration
- Advanced Analytics
- System Health
- Remote Operations Infrastructure

APPLICATIONS

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API & INTEGRATION

- API
- PUBLISH/SUBSCRIBE
- API (CORE BUSINESS/FUNCTIONAL LOGIC)
- SECURITY API
- DATA API (WDI)
- EVENT, DRINK, API (PUBLISHING, SUBSCRIBE, ROUTING)
- MACHINE DATA
- TOURSHEET DATA
- DATA FILES (MACHINE DATA/PLANT.

DATA INTERFACE & PROCESSING

- Data Capture
- Source & Destination Config.
- Tag Configuration
- Formula Management
- Data Calculation
- Alarm Detection

DATA STORAGE

- Machine Data
- Toursheet Data
- Data Files (Machine Data/Plant.
- Media Files
- Machine Output/Manuals/Tutorials

DATA DELIVERY

- Updates
- Real Time Data to DC
- Data Delivery

REMOTE OPERATIONS INFRASTRUCTURE

- Logging & Monitoring
- Administration
- Server/Backup Restore
- System Configuration

EDGE-DC INTEGRATION

- Data Sync
- Advanced Analytics
- System Health