



Ensign creates cloud-based data historian for enterprise-wide decision-making.

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Uptake Fusion helped Ensign Drilling Inc. get more value from its operational data by leveraging the cloud to make information more readily available across the organization.

BACKGROUND

Ensign Drilling is a global leader in the energy sector with drilling and servicing wells within the North American and international markets. They are one of the largest drillers in Canada, providing drilling services for customers in the oil, gas, and geothermal sectors. With revenues of approximately \$2.4B, Ensign offers powerful solutions through their expertise and a well-rounded offering of land-based services.

CHALLENGES

Ensign used Kymera Systems for the development, roll-out, and support of Ensign's drilling rig data historian. Ensign deployed it to their rigs worldwide with all data being collected and managed by an on-premise enterprise historian. Kymera Systems built a solid foundation, with Inductive Automation's Ignition SCADA solution. As Ensign grew, there was an increase in both the amount of data sources and the velocity of incoming data from each source. There was a need to increase the availability and performance of the historian.

Ensign wanted to get more value from their operational data by leveraging the cloud to make data and analytics more available for growth and scale. This would enable users to make faster, better operations decisions. Ensign also sought to improve machine health monitoring reports, performance reports, and their advanced alerting system to accelerate access to key operational information. They were looking for a cloud-based solution with options to adapt, scale, and improve. Ensign searched for cloud-based IIoT technologies that are more suited for streaming data analytics.

SOLUTIONS

Uptake Fusion supplemented Ensign's existing Enterprise Historian operation data in a secure and reliable manner. Uptake's team of engineers, consultants, and software developers enabled Ensign to install the Uptake Ignition Connector on drilling rigs incorporating Inductive Automation's Ignition operating history into the Cloud Historian.



Uptake’s components that were implemented include:

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Uptake has accelerated Ensign’s digital transformation with its Uptake solution. Fusion supplemented Ensign’s existing enterprise historian operation data in a secure and reliable manner... The solution has improved access to data and enabled better and faster decision-making for Ensign.

Sean Halloran

*Vice President, Wellsite Technology
Ensign*

Connectors

Provides data connectivity to different endpoints for historical, instantaneous, and metadata

Elevate™

Extracts data from on-premise operational systems and moves it to the cloud

Fusion™

Manages real-time and historical operational data in the cloud - first-native cloud data historian

Lenses™

Organizes data for use by different stakeholders. Provide access in an open format for visualization, analytics, orchestration, and reporting data consumers

APPLICATIONS

Over the last few years, Kymera Systems leveraged Ignition and helped Ensign with the development, roll-out, and support of its data historian for drilling rigs. As Ensign grew, there was a need to work with a lot more data, and the necessity to increase the availability and performance of the historian.

Ensign turned to Uptake to implement a cloud-based historian. The goal was to utilize IIoT to help adapt, scale, and improve operations. Uptake worked with Ensign to install the Uptake Ignition Connector on drilling rigs, incorporating Ignition’s operating history into the cloud historian. Fusion supplemented Ensign’s existing historian, which allowed data to be easily moved and managed. The solution has improved access to data and enabled better, faster decision-making for Ensign.

BENEFITS

Fusion improved Ensign’s rig drilling service delivery with data centralization in the cloud. With the implementation of the cloud historian and the Ignition connector, Ensign was able to:

- **Improve productivity and get more value from their operational data by leveraging an efficient cloud-based historian**
- **Enable the use of ML algorithms for data classification and reporting automation**