

Mosaic

See, Share and Understand Operational Data

Mosaic makes it easy for oil and gas professionals to discover and make sense of the data that matters most for operation and maintenance. It helps them save time to action by making equipment health data and operational insights available all in one place.

With Mosaic, there is no need for complicated roll-out projects; it builds upon your existing IT infrastructure to provide a view into the current status of your process.

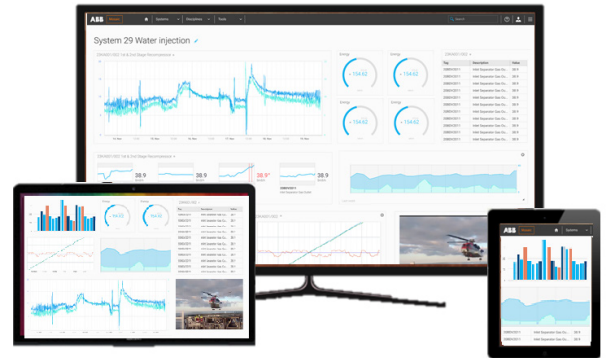
The Solution

Mosaic is a modern web application, which makes real-time data from the production plant easily available to users at the office network. It enables decision makers to make effective use of this information, by giving them the opportunity to:

- Get a quick overview of the equipment health and operational status
- Combine and compare condition data, alarm and events and process data all in one view
- Quickly set up their own views to troubleshoot potential issues.
- Comment on problems or opportunities detected, and share this information with others.

Benefits

Oil and gas professional spend too much time searching for data in information silos or proprietary tools. Mosaic saves time to action for your decision makers by key information all in one place. Users can combine information such as condition monitoring alerts, process data trends and CCTV feeds to get an overview of the current status, and development over time, for critical equipment at the plant. The visualization components in Mosaic are designed specifically to support monitoring of oil and gas related data, to better support the users make sense of data, and reduce the time from data to decision and action.



Achieving operational excellence depends highly your organization's capability to learn and improve. Mosaic differs from other operation intelligence solutions on the market as it integrates with, and builds on, your existing IT infrastructure. It also allows you to modify how information is presented, add new data sources or functionality without the need to call an IT expert.

We believe the technology you use at work can, and should, be as attractive and easy to use as the tools you use in your private life. Mosaic is therefore created with a strong emphasis on providing a positive user experience and with special attention to on the needs of the oil and gas professional.

Mosaic allows you to do remote monitoring of critical information. By reducing the number of users accessing the process automation system on your control network, thus increasing the security of your installation.

Features

Mosaic enables you to do real-time monitoring of your process from the office network. Users can browse in pre-defined dashboards providing high-level overviews or navigate to detailed information on equipment specific dashboards. For more in-depth analysis, users are provided with navigation links to expert tools providing detailed information for analysis and diagnostics.

Users can easily create or modify dashboards in minutes. Dashboards can be shared with others, or be for personal use. Mosaic comes with a set of pre-defined widgets in the Mosaic widget library, including trend line chart, KPI visualizations and equipment status indicators. Additional widgets can be easily be integrated, and customized widgets can be created by use of the Mosaic API. The API also supports creation of custom data sources. Mosaic can integrate data from any OPC Historian out-of-the-box. The Mosaic Developer Guide and user forum aims to make the addition of new widgets and data sources to Mosaic as easy as possible.

Mosaic support interactive exploration of the information presented by allowing the users to make view-mode adjustments to data presented, such as zooming in trends, changing the period or filtering data in tables.

Users can share live dashboards with anyone within their company intranet. Users can also add and share annotations to interesting observations in trend charts. By allowing users to add and share annotations, Mosaic provides low-threshold functionality to capture knowledge and support collaboration

Technology

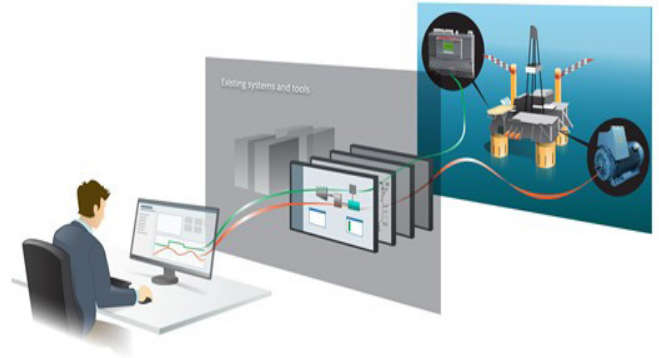
Mosaic is a modern web application, developed by use of modern software development platform and architecture. The user interface is a pure web interface, and all functionality in the application is accessible from modern web browsers. The application use the advantages given by the use of HTML 5 and CSS 3 to achieve the look-and-feel of a modern web based application

The design in both backend and frontend is loosely coupled and easily interchangeable. Modules are easy to include or exclude from an application environment, which means that Mosaic can live on its own or in a 3rd party software framework such as Microsoft SharePoint.

The application handles several sources of data and is able to change data sources seamlessly. It uses a software-oriented architecture to enable loose coupling and federation of data where practical to avoid unnecessary complexity.

To make the most out of the possibilities provided by Mosaic, the underlying applications and systems must be able to share data and information. By relying on OPC standard for generic process data, Mosaic is ready to connect to any system complying with this standard. For other systems exposing their data as a web service, it requires little effort to integrate this data as a new data source in Mosaic. When created, the data is readily available to the graphical widgets in Mosaic. The data source can be developed using the Mosaic Developer Guide and uploaded to Mosaic.

Mosaic is designed to be distributed, ready for clustering and suited for handling of concurrent users. This enables the flexibility needed to ensure good response times regardless of the number of users, or the number of integrated data-sources.



Related modules

Mosaic comes with a number of powerful add-on modules, including:

- Templates and widget libraries for condition monitoring of rotating equipment, electro and instrument monitoring.
- Data adaptors for alarm and event data
- Dashboard and data export for online monitoring of on/off valves.

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