What's New in Avocet 2014

Increase productivity with the Avocet production operations platform

KEY FEATURES

PRODUCTION VISUALIZATION
- High-quality visualization designer
- Web and desktop enabled
- Real-time and historical data display via OPC-UA
- Template support

HIGH-FREQUENCY DATA INFRASTRUCTURE
- High-frequency data storage and loading
- Synchronization with a corporate data historian
- High-frequency calculations and cleansing
- Alarms and notifications

SIMPLIFIED DEPLOYMENT
- Avocet* installation wizard
- Standard or extended installation options
- Configurable for Web and desktop

SOLUTIONS
- Set of solutions for specific production challenges
- Customize solution framework
- Extensible solution base

Increased workflow productivity

The 2014 release of the Avocet production operations software platform delivers an enhanced user experience aimed at boosting productivity. The visualization technology combined with the storage and loading of high-frequency data enables users to efficiently collaborate in monitoring and response planning to meet their production targets.

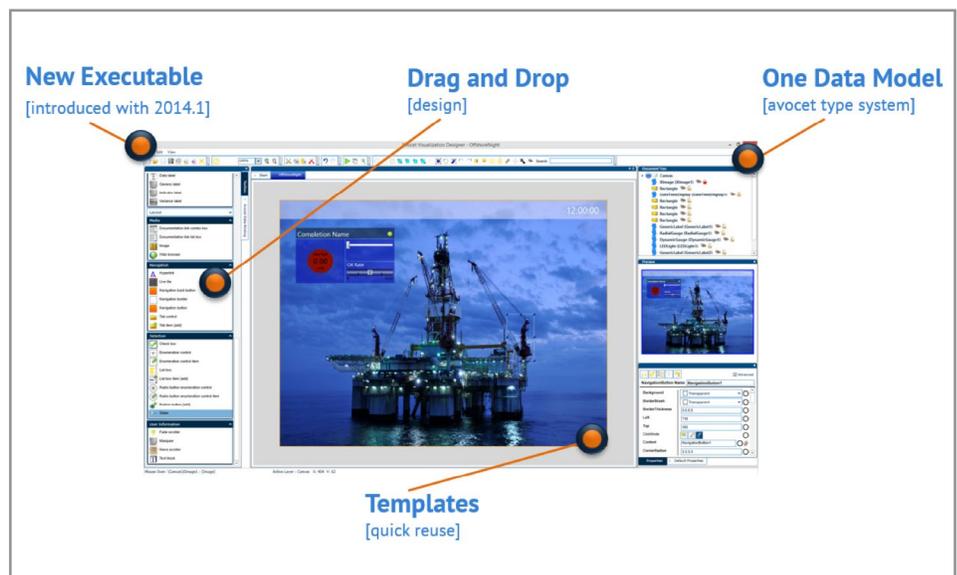### See a picture of operations in a single, shared environment

The Avocet platform's integration capability connects global and remote operations for a broad range of disciplines from field staff and production and reservoir engineers, to production accountants and administrators. Offering high-quality web and desktop visualizations of different sources of oilfield data, measurements, and models, the Avocet platform enables all users to see asset performance in a single environment, regardless of asset type or location.

Understand the impact of changing production conditions

The Avocet platform brings together data and measurements acquired in production operations with reservoir simulation models, production engineering simulators, and analytical applications to provide direct technical insight into the reasons for production interruptions and shortfalls. The Avocet platform integrates with OFM* well and reservoir analysis software to deliver an easy flow of data to the Petrel* E&P software platform for tasks like reservoir simulation history matching in the ECLIPSE* industry-reference reservoir simulator.
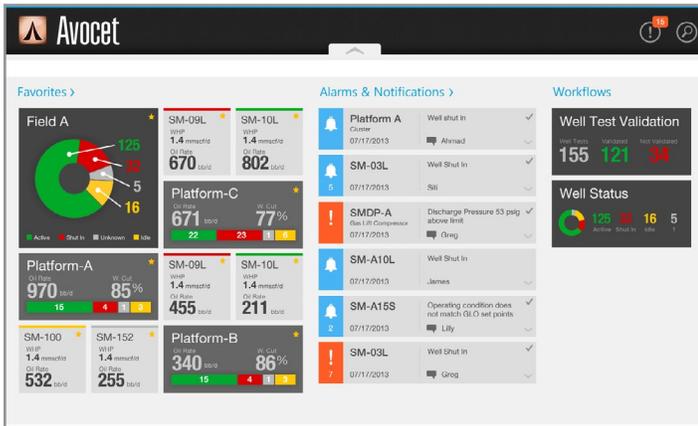
Take the right action at the right time

In addition to the Avocet platform's core solutions, the 2014 release offers a set of solutions for specific production and operational challenges. These solutions can be customized to any particular operational environment and are extensible to provide the comprehensive production functionality that is required for each unique operating setting.

Visualization designer from the 2014 release of the Avocet platform.

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The Avocet platform aggregates and stores all forms of data with an easy-to-navigate, customizable interface on a desktop application, or via the Web.

Next-generation visualization framework

The Avocet platform offers the next generation of production visualization technology which brings together different sources of oilfield data, measurements, and models. The technology seamlessly integrates data from high-frequency sources (data historians) with transactional databases (PDMS) to create high-quality web and desktop visualizations that include interactive images, maps, and controls capable of displaying KPIs, diagnostics, and trends. Real-time and historical data are displayed via OPC-UA.

In addition, the visualization framework features:

- Quick navigation to specific points in the organization hierarchy, such as field-level summary views or well details.
- Centralized control of accessibility, user permissions, and data security.
- Template support to allow the reuse of solutions and to minimize deployment and maintenance efforts.

Simplified deployment and configuration

The deployment and configuration of the Avocet platform is simplified with the introduction of an installation wizard. Using the installation package, users can choose from standard and extended installation options to configure both web and desktop versions of the platform, including all prerequisites.
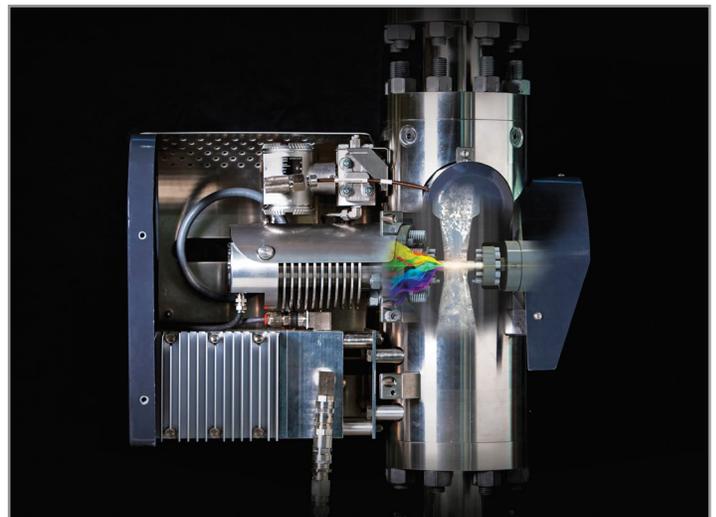
Solutions

A library of packaged solutions is available from volumes management through monitoring and surveillance to asset optimization and flow assurance solutions. A flexible and extensible infrastructure supports custom solutions development either by Schlumberger or client organizations.

High-frequency data infrastructure

The Avocet platform introduces infrastructure that is specially designed to facilitate high-frequency data collection, computation, and alarming. With transparent access to model results, aggregated sensor data, and high-frequency sources, the platform can support:

- Custom calculations that apply equations with specified inputs and outputs.
- Trigger alarms with corresponding email notifications whenever a threshold is exceeded or an event occurs.
- Storage and distribution of high-frequency data, making real-time data available natively within the Avocet platform.
- Ability to configure and synchronize with a corporate historian, which offers better control of alarming, aggregations, notifications, and surveillance.
- Surface field data to report and analyze, ensuring consistency and correctness.
- Basic alarm support with corresponding email notifications.
- Data cleansing to ensure data quality for input to computations.

The Avocet platform seamlessly integrates data from high-frequency sources (data historians) with transactional databases (PDMS) to create visualizations.

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