Studio E&P Knowledge Environment

A productive, connected, and collaborative environment for your asset team

APPLICATIONS

- Collaboration, knowledge-sharing, and data management within the Petrel* E&P software platform
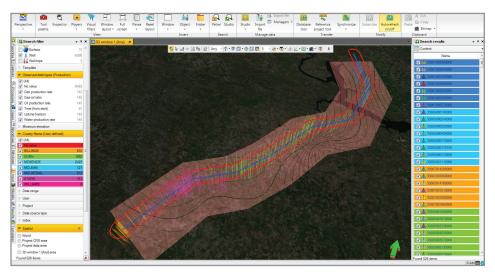
BENEFITS

- Avoid lost time and rework via improved collaboration
- Uncover previous work/interpretation, or critical information via fast searching capabilities across multiple sources in context of your project
- Gain instant updates and learn who made them via automated alerts

FEATURES

- Multiuser, concurrent-access project environment that provides scalability over large data sets and users
- Intuitive data visualization, notification, and synchronization workflows
- Well top versioning
- Improved project synchronization based on predefined filters
- Fast previewing of search results
- Ability to apply square charts to filter categories with numeric value
- Ability to apply native Petrel color table or create custom color tables
- Indexing of Petrel windows, making them searchable
- Ability to find related objects to indexed Petrel windows
- Robust Studio database that supports geophysical and geological interpretation workflows

The Studio* E&P knowledge environment enhances the Petrel E&P software platform, allowing the effective capturing and sharing of knowledge—throughout the life cycle of the field. It also supports integration of all available information, ensuring data quality and significantly improving multidisciplinary collaboration across the asset.

With comprehensive tools for collaboration—as well as data and knowledge access, management, and capture functionality, powered by industry-standard database technologies—the Studio environment provides a multiuser workspace with scalability for large data sets, all in the context of users' domain workflows.

The intuitive Studio environment provides a multiuser workspace.

Find information in the context of your model

The Studio environment enables information across multiple sources to be searched. Users can apply geographical context, filter the results based on data-specific criteria, and graphically preview the results within the project to instantly uncover previous work/interpretation or critical information in their area of interest. The new View Content Display option in Studio 2014 allows results to be listed in a tabular format, showing the names of the object and the thumbnail image, and allowing users to quickly preview search results before loading them into their Petrel project.

The Studio environment also provides the ability to apply square charts to filter categories with numeric values. The search result will be displayed as square maps for visual analysis, in which the size of the squares reflects the attribute values. Additionally, users can apply native Petrel color tables or create custom color tables. These can be applied to discrete filters to color code corresponding search results.

Petrel windows can be searched and retrieved through the search results pane for users to reuse without having to set-up new windows with the same display and settings. Furthermore, with the new related items filter in Studio 2014, users can search all windows that contain a specific object, and all objects being used in a specific window that have been indexed. Users can also filter the values of a filter category to improve the way results are displayed and retrieved.
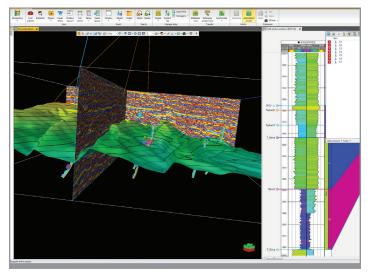
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The Studio environment supports several tiled and dynamic GIS map services, with thumbnail previews of the available updated maps services provided. Visualization and coordinate reference system settings are also available, along with features that make it easy to connect to custom services or services requiring authentication.

Enhance collaboration between asset teams

The Studio environment enhances the way multidisciplinary asset teams work together to explore, characterize, and develop challenging reservoirs. With the Studio environment, users share and publish their interpretations and insights only when they are ready for the team to access and use. They can also sign up for notifications of changes, providing instant awareness of updates made across their project.

New collaboration workflows in Studio 2014 are enabled through the ability to attach related information or knowledge directly to data, and through instant messaging capabilities that allow people to easily connect and communicate with other team members and experts.

Subscribe and receive automatic notifications on new and updated data.

The Studio environment enables asset team members to quickly visualize and search information and data in the context of their 2D or 3D canvases. The Studio database is able to hold information and data across large areas, providing rich search capabilities, as well as the ability to tag data to greatly improve collaboration. Gathering all available data decreases the amount of time required to start doing what matters the most—interpretation.

To support full integration of all geoscience domains, the Studio environment provides full flexibility to respond to any user profile. In a multidisciplinary asset, the geophysicist can add new interpretations and update the key surfaces, then send them to the Studio environment. The team geologist is immediately alerted, can assess the new interpretations, and then decide whether to incorporate them into the project.

With Microsoft Lync integration, team members quickly see the online status of users who have worked on the project data or annotation of interest in their project and immediately start communicating with them.
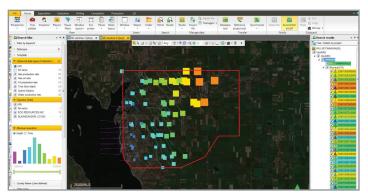
Manage knowledge in context

With the Studio Manager application, data managers have all the administration and core data management tools required to quickly understand the state of the Studio environment. Tools are delivered via applications, giving data managers the ability to ascertain the status of repositories, review recent user activity, identify tasks to be performed, and proactively support team members.

Additionally, Studio Manager provides data-access controls and security for the scalable Studio database, supported by industry standard technology (Oracle and Microsoft SQL Server). The database supports Petrel users who are working in multiple coordinate systems—coordinate and unit conversions are done dynamically as users share the data through the database.

Studio Manager also provides a rich back-end for multiple users to simultaneously interpret and safely share data with each other. The smart synchronization system and locking mechanism detects change conflicts across user changes and prevents data from being overwritten accidentally.

Extend the Studio environment

With the Ocean* software development framework for the Studio environment, users can fully leverage the value of their E&P data. In addition to providing core data access, it enables the creation of new workflows. Custom applications for Studio Manager can be developed to automatically integrate with existing end-user workflows, providing enhanced insight and management into knowledge assets.

Apply square charts to filter categories with numeric value.

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