



Connect 2019.4.2

Plug-in for the Petrel* Platform



GVERSE® Connect

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Data interoperability is critical in accurately characterizing reservoirs and maximizing productivity of the entire asset team. GVERSE Connect was developed to address the need for data interoperability between the Petrel® E&P software platform and GeoGraphix®, ultimately letting users solve complex business problems efficiently by providing application choice. GVERSE Connect transfers well, seismic and map data to maintain an integrated interpretation environment, enabling efficient data exchange between two industry-leading E&P technologies and giving geoscientists the ability to use “best-of-breed” applications without data migration issues and related delays.

Data can be transferred to an empty project (in either vendor’s system) or into an existing project, and the transfer rules are configurable according to the data management policies of the organization.

Bidirectional data transfer for the following data types is supported:

- Well data - which includes headers, directional surveys, well tops, log curves, velocity surveys and faults.
- Horizons and faults marked on 2D and 3D volumes.
- 2D and 3D seismic data.
- XYZ surfaces generated in either application.

The plugin uses Ocean* software development framework to bridge the applications.

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*Mark of Schlumberger

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Benefits

Using this plug-in, data can be transferred to an empty project (in either vendor's system) or to an existing project that the user would like to append or update. The transfer rules are configurable to allow necessary adjustments according to the data management policies of the organization.

- **Increased User Productivity:** For organizations that using both Petrel and GeoGraphix, the data transfer time will be exponentially faster than using manual data transfer methods.
- **Optimized Reservoir Characterization:** By combining the strengths of both software solutions into one interpretation, an optimized reservoir characterization can be produced.
- **Reduced Costs:** GeoGraphix provides an affordable, comprehensive and performant solution for daily interpretation needs and compliments Petrel for reservoir modeling. Rightsizing the software solution, while enabling full data interoperability, provides an opportunity to dramatically reduce licensing costs and associated annual maintenance and support fees.
- **Quick Adoptability:** Easy and fast transfer of Petrel well data into GeoGraphix enables the user to take advantage of GeoGraphix's geophysical, geological, petrophysical and map production capabilities, for faster, efficient and more accurate interpretation.

Key Features

- Transfer for well headers, formation and fault picks, deviation surveys, velocity surveys (time-depth tables) and log curves between GeoGraphix & Petrel
- Well filters and support for GeoGraphix AOIs limit data transfer to required wells and spatial extents.
- Data filters on top of well filters and AOIs only move what you need. Specify the formations, faults and log curves to transfer. Choose sources and stratigraphic columns for reading or writing picks.
- Match deviation surveys with exposure to three calculation methods.
- Single-click transfer of horizon, fault, surfaces and seismic data.
- Move color palettes to exactly recreate seismic and surface visuals.
- Read or write seismic interpretation data directly to/from any GVERSE Geophysics interpretation.
- Fully configurable conflict resolution rules cater to all transfer scenarios.
- Detailed logs for all transfer activity provide comprehensive auditing and reporting of transfer failures to take corrective action as required.

Discover your efficiency with GeoGraphix:

- **Integrated solution:** GeoGraphix is an integrated geoscience interpretation system that supports large multidiscipline work groups simultaneously in the same project. Using the GeoGraphix for Petrel plugin enables Petrel users to transfer smaller GeoGraphix datasets into their Petrel projects for efficient reservoir modeling.
- **Powerful, multi-well petrophysical analysis and modeling** within GeoGraphix can be applied to Petrel well data from individual wells to multi-well, multi-zone projects.

- **Leading edge mapping:** Leverage advanced GeoGraphix mapping and GIS capabilities. In a few easy steps, Petrel surfaces are transferred into GeoGraphix to produce presentation quality maps.
- **Field/Well Planning:** Take advantage of the field and well planning capabilities in GeoGraphix for planning horizontals in unconventional plays.

Requirements

Software

The software that must be installed on the system running the plug-in are as follows:

- GeoGraphix Discovery 2019.4.2
- Petrel 2019.x, 2020.x
- LMKR License Management Tool 2019.3 for Connect license
- The LMKR License Management Tool (LMT) must be installed to configure the Connect license.
- Microsoft® Visual C++ Runtime 2013
- Adobe Reader for selected help files (optional)

Hardware

The hardware requirements for the plug-in are the same as the Petrel hardware requirements.

Operating System

To run the plug-in, you need one of the following operating systems installed on your system:

- Windows® 7 Professional x64
- Windows® 10 Professional x64
- Windows® 7 Enterprise x64
- Windows® 10 Enterprise x64
- Windows® 7 Ultimate x64

Note: It is recommended to use the latest Microsoft® service packs and security patches.

Licenses

The following licenses are required to run the plug-in:

- GeoGraphix license version 2019.4
- Petrel 2019.x, 2020.x
- GVERSE Connect 2019.4 license

The following product/feature licenses are required to import/export the IsoMap surfaces, and horizons and faults:

- IsoMap license for surfaces
- GVERSE Geophysics license for horizons and faults

Note: Refer to the GVERSE GeoGraphix Customer Support Portal (<https://gverse.com/support/>) for up-to-date information on the requirements.