

# 2022

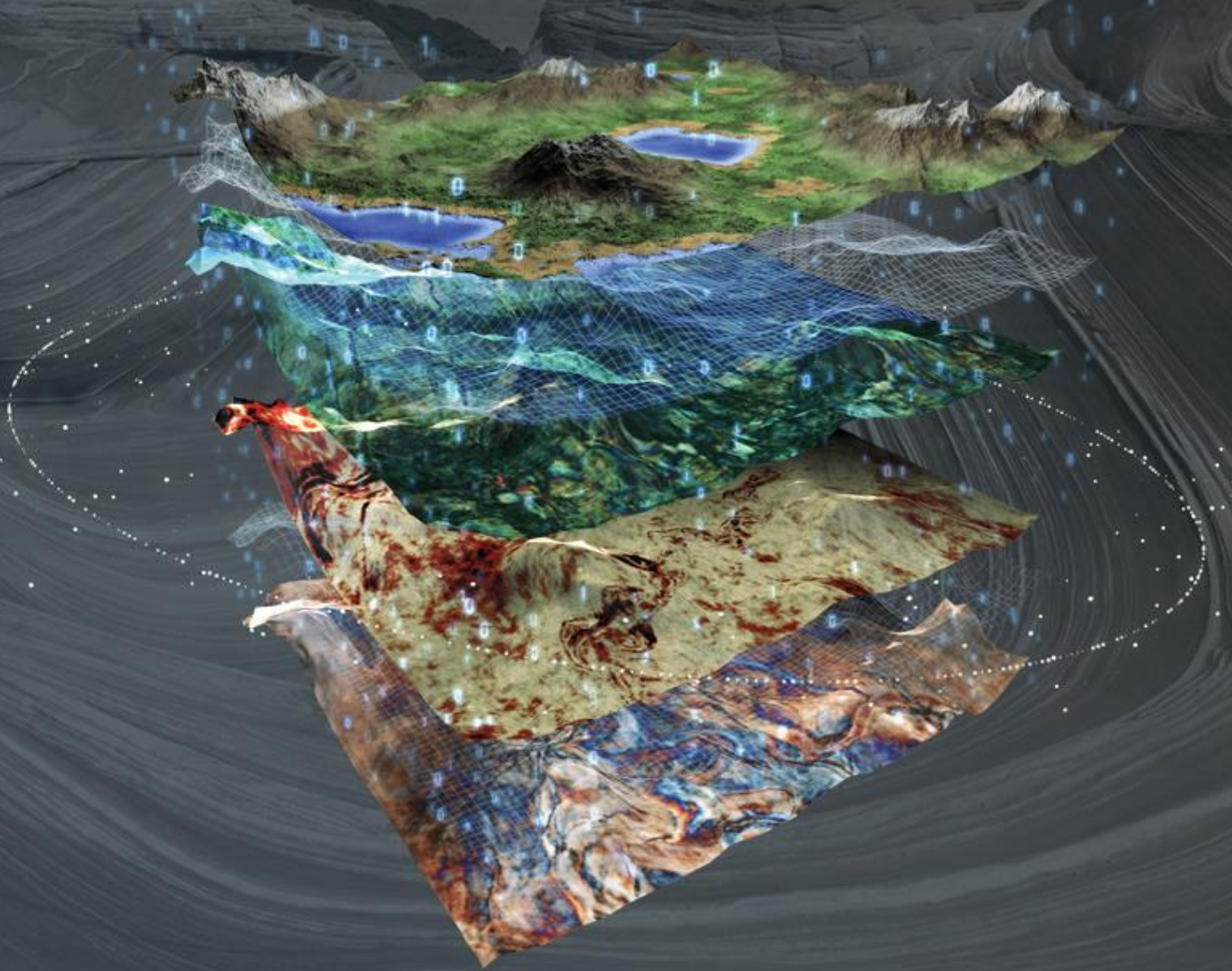
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# PALEOSCAN™

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Integrated Seismic Interpretation Software

2022.2.0



RELEASE NOTES







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# PaleoScan™ 2022.2.0

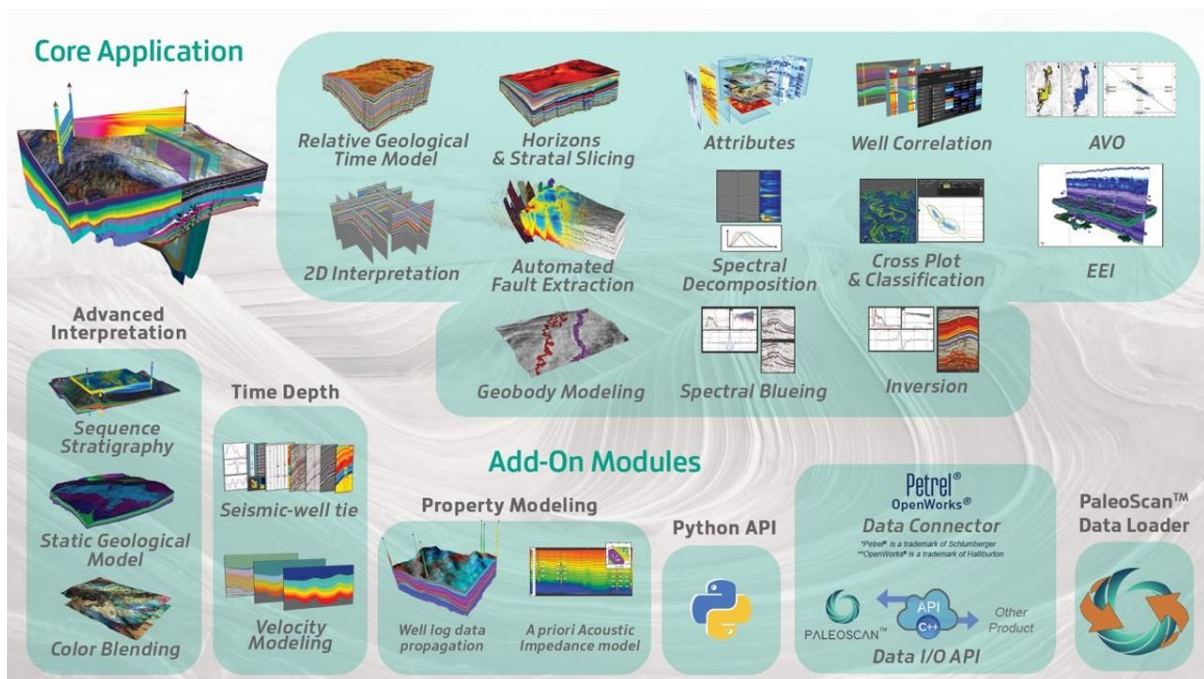
PaleoScan™ is a new generation of seismic interpretation software, where geoscientists build a geological model while interpreting seismic volumes.

In this intermediate release, the main developments are focused on the **Model-Grid** part of the application. A **higher spatial and vertical resolution** is now available for the 2D and 3D Model-Grid thanks to innovative functionalities. The use of the Model-Grid tools is facilitated by an **upgrade of the Horizon List interface**.

Another key feature of this release is the access to **wellhead management** through the **integration of key well data** that can be managed from a single interface (Well Data Manager).

Finally, in the continuity of the work started a few months ago, Paleoscan™ is now opened to external data through the **integration of VDS™ Bluware FAST™ for volume streaming**. The extremely efficient VDS compressions' capabilities drastically **reduce storage capacity** and **minimize data silos** without any loss in the application's interactivity.

This document lists all the new features and upgrades implemented in Paleoscan™ 2022.2.0. A detailed description of each tool can be found in the "User Guide" or on the web site ([www.eliis-geo.com](http://www.eliis-geo.com)).



# New Features & Improvements

## Data management

Feature	Description
<b>FAST™ streaming Local VDS</b>	New VDS FAST™ option added to stream VDS files stored locally.
<b>FAST™ streaming Remote VDS</b>	New VDS FAST™ option added to stream VDS files stored on the Cloud.
<b>VDS volume import</b>	New option to import VDS volume in PaleoScan™ using OpenVDS API.
<b>VDS volume export</b>	New option to export volume as VDS file from PaleoScan™ using OpenVDS API.
<b>Well Import</b>	Update (add or replace data) of Well Database is handled at the import (for Wellhead data of type ascii, shapefile and LAS): conflict management enhanced for Well ID (UWI), Well Status and Well Spatial Unit with info logged in Message Window.

## Wells

Feature	Description
<b>Well Set</b>	New Well Set object added to organize the wells from the Project Browser. Well Sets can be created at import, from the project browser either by a context menu option or drag and drop and with closed polygons selection in all 2D viewers. On most tools that require multiple wells input, well set can now be used by a simple drag and drop from the Project Browser to fill the well selection input with all wells from the well set.
<b>Well Data Manager</b>	Well Data Manager is a non-modal window for viewing and editing wellhead data. Unlike the Well/Log Table dialog, this tool provides capability to view and edit many wellhead data at the same time.
<b>Wellhead data</b>	Well ID (UWI), Original Spatial Unit, Well Status and Well Color are handled in the PaleoScan™ application.
	Status is defined on wells (at the import, with a cross-reference mechanism and/or in the 'Well/Log Table' and 'Well Data Manager') with associated symbols for 2D viewers and tools.
	A sorting by name or status is available for the wells in the Project Browser.

## Model–Grid

Feature	Description
<b>New Polarity option</b>	New polarity parameter was added to compute Peak, Trough, Zero Crossing and Inflection Point and increase the vertical resolution.
<b>Patch Size</b>	Patch size lower limit has been set to 1 to allow better interpretation of complex geometries.
<b>Horizon List</b>	<p>Improved Horizon List associated to the 2D and 3D Model-Grid interpretations:</p> <ul style="list-style-type: none"> <li>• New pop-out option implemented to extract the Horizon list from PaleoScan™,</li> <li>• New interface to display Horizon list filtering options in a ribbon,</li> <li>• New icons update,</li> <li>• Maximum number of displayed horizons has been increased,</li> <li>• Filtering area can be done with minimum and maximum values,</li> <li>• Histogram added in the filtering ribbon to show the range area of the filtered horizons,</li> <li>• Enabling horizons multi-selection from the horizon list with link to the context menu options,</li> <li>• Horizon under editing highlighted in the Horizon List,</li> <li>• New column added to show Last edition date for the horizons,</li> <li>• New Auto-update option to automatically update horizon list while horizon editing,</li> <li>• New option in the context menu of the Horizon list to create Horizon Stacks from Horizons.</li> </ul>

# Maintenance

Feature	Description
<b>Project Opening</b>	Project management on remote drive improved to avoid data corruption.
<b>Project</b>	More reliable way of saving XML files in PaleoScan™ project.
<b>Units</b>	Conversion factor for PaleoScan™ units is fixed.
<b>Settings</b>	Icon display on Dark mode is improved.
	Application Style selection re-enabled at the start of the application.
<b>Interface</b>	Display of the wells list in the pull-down menu is improved for the following dialogs: Well/Log Table, Composite log creation, Extended Elastic Impedance workflow, Well Marker QC, Wavelet creation, Log Set Merging, Sonic Calibration, Seismic Well Tie.
<b>FAST™ streaming</b>	FAST™ streaming window is more stable and does not freeze when FAST™ service is down.
<b>Horizon Import</b>	fix instability when importing and overwriting 2D horizons.
<b>Wellhead Import</b>	Wellhead import interface improved.
	Functionality of Log import with CRS is fixed. Management of errors and warnings at import of well data is improved.
	Bug fixed on the management of the Well trajectory unit at the import.
	Stability improved for LAS import.
<b>Volume</b>	Coordinate Editor preview pane is fixed and allows to display and locate all coordinate points.
	Error message referring to intersection is fixed when using Volume Extraction tool.
	Refresh of properties avoided when scrolling in 2D viewer.
<b>2D Horizon Stack</b>	Fix crash during creation from 2D Horizons.
<b>2D/3D Horizon Stack</b>	Special characters such as + sign is now allowed for 2D and 3D Horizon Stack naming.

<b>2D Horizon</b>	Fix decimation during export.
	Bug fixed on the export of large 2D horizon.
	Speedup dialog opening during export.
<b>2D/3D Horizon</b>	Ghost usage for horizon picking is more stable.
	Fix crash when dragging horizon to viewer.
	Fix assignment of contouring step in Horizon viewer properties
<b>2D Attribute</b>	Fix color bar assigned to created line
	Fix missing refresh of the project browser after object creation
<b>3D Attribute</b>	Fix structure oriented smooth preview
<b>2D Line</b>	Fix crash on transfer of 2D Line from Petrel® to PaleoScan™.
	Fix crash while removing object from 3D viewer.
	Stability improved on the overall 2D workflow.
<b>2D Line set</b>	Fix a bug on duplication of 2D Line set after 2D Model-Grid creation.
	Improve title of intersection viewer.
	Fix navigation between lines during creation of a 2D Line Set.
<b>Model-Grid</b>	Fix crash when using undo/redo operation on the Model-Grid.
	Fix crash when opening the Model-Grid Constraint window.
	Fix a crash while using corrupted horizon to constraint a Model-Grid.
	Improved patch creation for Inflexion Points polarity computation.
	Option "Respect Locked Path" is now a checkbox.
<b>3D Model-Grid</b>	Fix crash due to lack of allocated memory for the Model-grid computation on a large dataset.
<b>2D Model-Grid</b>	Fix crash on the Model-grid computation on a large 2D Line Set.



<b>GeoModel Preview</b>	Issue on the refresh of the GeoModel Preview was fixed when updating Quality parameter.
<b>Fault Editing</b>	Anchor point edition is working and can be edited.
<b>Fault</b>	Forbid special characters in object name and prevent export.
<b>Strati Viewer</b>	Fix crash on Strati Viewer when using Cancel button on Edit/Save Velocity Model tool.
<b>Sequence Stratigraphy</b>	Fix crash while deleting sequence.
<b>Well/Log Table</b>	Minor bug fixed on the default tab displayed in Well/Log Table dialog.
<b>Log Viewer</b>	Bug fixed on the multi-selection of curves in the same track.
	Bug fixed on the persistence of the display settings of the Header Viewer.
<b>Wells</b>	Properties tabs split into display and object properties.
	Well conversion to project CRS is fixed.
	Reduce time load for large number of wellhead when opening or browsing a project. Improved performance at the import and for visualization.
	Well object properties (accessible when well is selected from the Project Browser) is split into Display tab and Object tab.
	Reference Elevation scheme is added in the KB tooltip (available from Well Import dialogs, Well/Log Table and Well Data Manager).
	Wellhead spatial unit is connected to the PaleoScan™ settings for display consistency.
	"Choose Well Set to Apply layout" tool filters only wells containing log set.
	"Create TWT and depth log creation" tool filters only wells containing log set.
<b>Well Marker</b>	"Well QC" tool filters only wells containing marker set.
<b>Velocity Modeling</b>	Bug fixed on the computation of Velocity from Sequence Stratigraphy via Well Log interval.
	The pixel at the start is no more influenced by the Output Step modification for: Domain Conversion, Dix or RMS volume computation.
<b>Wavelet</b>	Fix deterministic wavelet creation with Roy white algorithm.
<b>Seismic Well Tie</b>	"Sonic Calibration" and "Seismic Well Tie" tools filters only wells containing log set.

<b>Properties</b>	Improved object visualization by always showing Display tab parameters instead of Objects.
	Performance improved when updating Properties for Volume Attribute on 2D Line Viewer.
<b>Session</b>	Well ID (UWI), Well Status, Well Color and their corresponding parameters in Properties tab are saved in PaleoScan™ sessions.
<b>Color Bar</b>	Fix issue on the Color Bar when using the Contouring option on the Horizon Stack.
<b>OpenWorks®</b>	Fix issue on incorrect unit transfer for well trajectory during the transfer from OpenWorks® to PaleoScan™. Now if the unit is in feet, it is correctly used in PaleoScan™.

# Licensing

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PaleoScan™ 2022.2.0 can be downloaded from the [Eliis web site](#). A personal user account is required. If you do not have a login and password to access to the Eliis extranet, you can apply for one by completing this [form](#).

Eliis provides you a free 30-day temporary license to evaluate PaleoScan™ 2022. The temporary license will give you full access to the software with all add-on modules.

# Project Compatibility

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The PaleoScan™ platform is compatible with all PaleoScan™ projects.

## **Forward compatibility:**

Projects saved with previous versions of PaleoScan™ can be updated to PaleoScan™ 2022.2.0 when the projects are being loaded:

- At the project opening, an update related to the well database is recommended to take full advantage of the new features,
- At the Model-Grid opening, an update is needed to access and edit to the Model-Grid interpretations.

## **Backward compatibility:**

Projects created with PaleoScan™ 2022.2.0 can also be opened with previous versions. However, some new object properties might not be readable by earlier versions:

- The updated well data can still be used in a previous version of PaleoScan™.
- Once updated in this last version, a Model-Grid is not supported in previous versions of PaleoScan™.

# Hardware Requirements

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PaleoScan™ is a Microsoft Windows® stand-alone software, running on PC equipped with a 64-bit processor with the minimum requirements equivalent to the below mentioned items:

- CPU: 6-Core
- RAM: 16 GB
- Operating System: Windows® 7, 8 or 10 (64-bit)
- Graphic card: 512 MB NVIDIA® / ATI® graphic card
- IDE devices: Hard disk with fast rotational speed (> 7200 rpm)