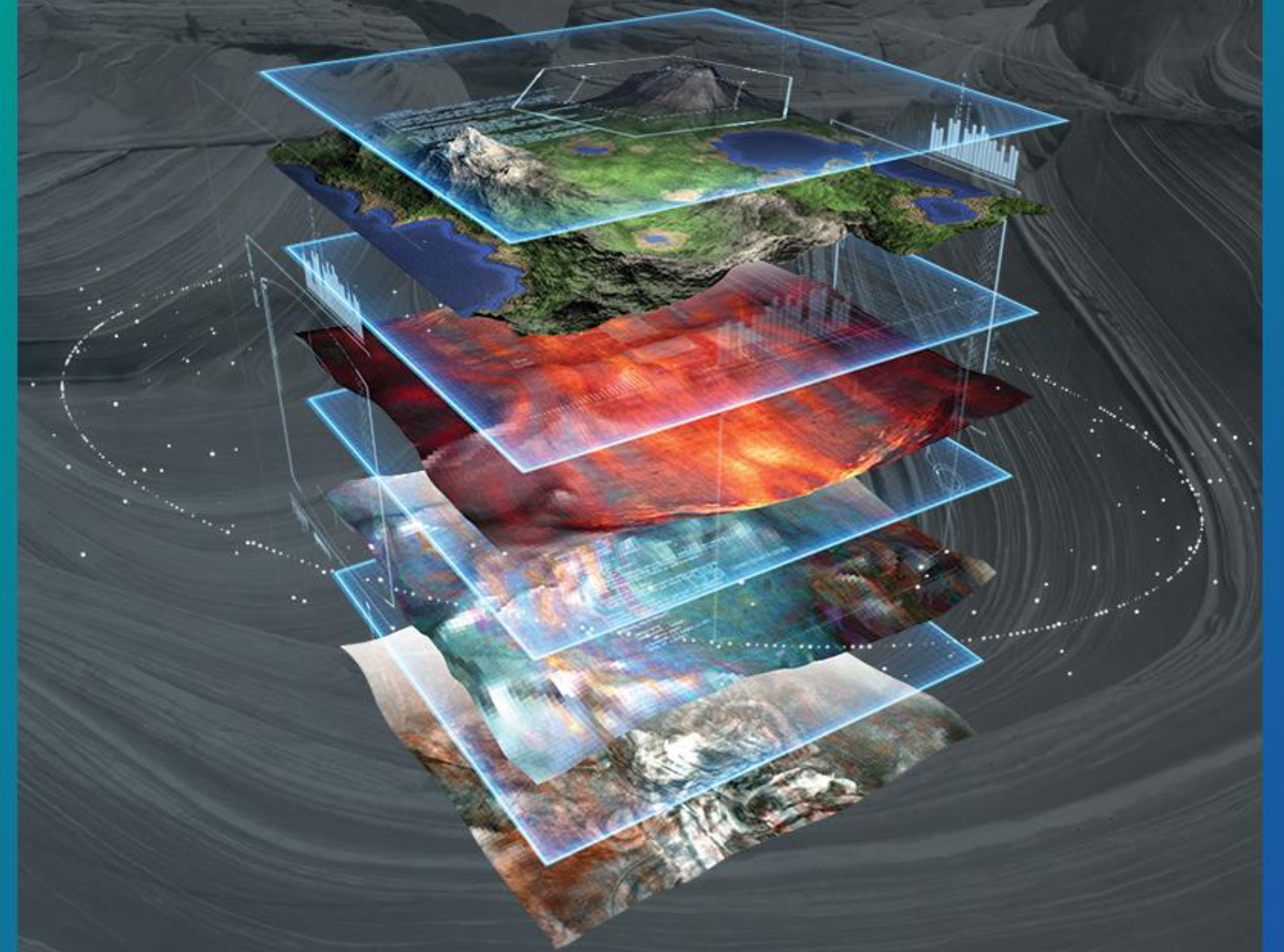
2021

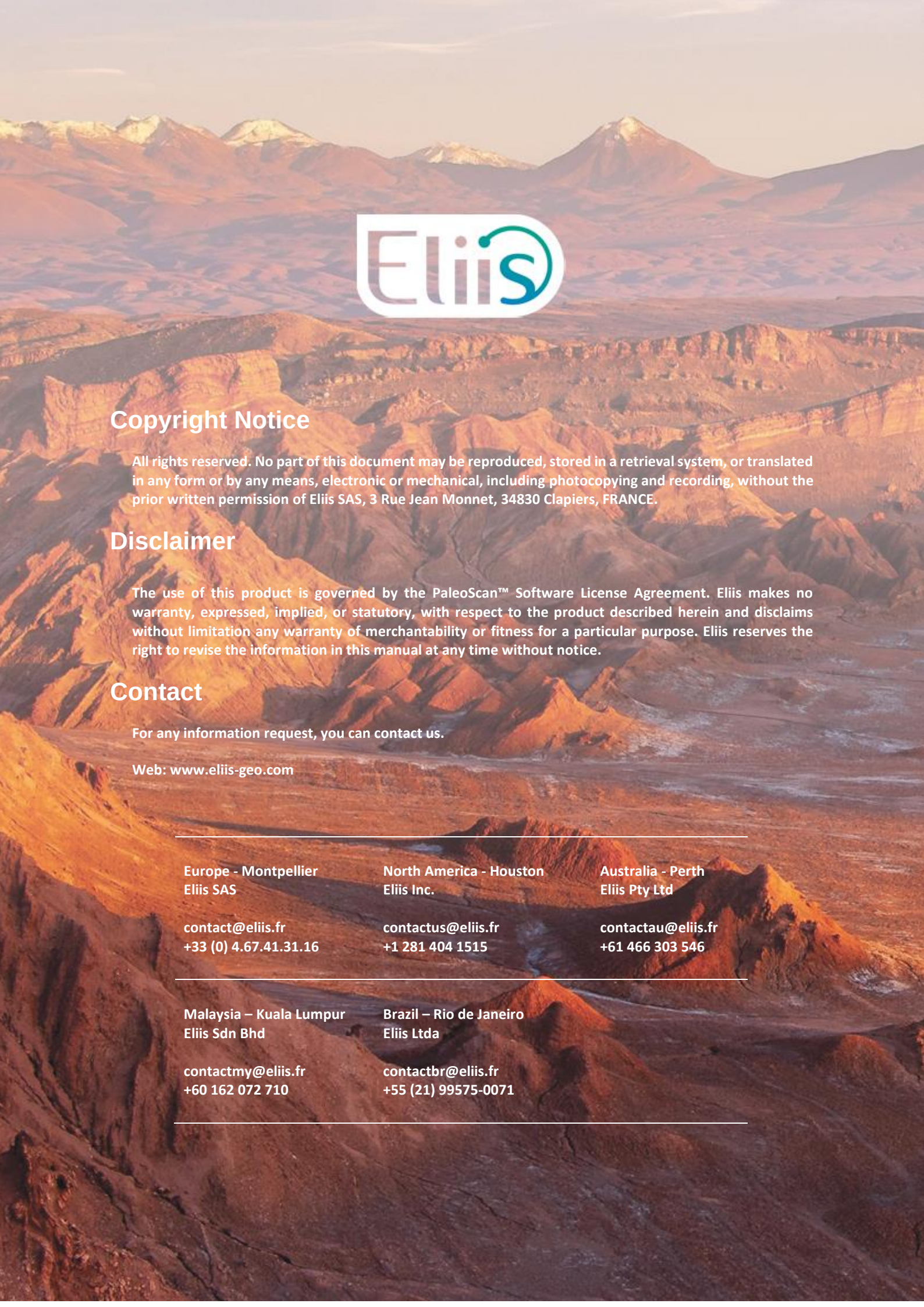
PALEOSCAN™

RELEASE NOTES

2021.2.0



Integrated Seismic Interpretation Software



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PaleoScan™ 2021.2.0

PaleoScan™ is a new generation of 3D seismic interpretation software, where geoscientists build a geological model while interpreting seismic volumes. With this new release, Eliis continues to innovate in seismic interpretation and brings more tools to interpret larger seismic datasets, with added speed and precision.

The 2021.2.0 version includes all updates counted in the last version and features, new and improved tools, for a better support of data constraints.

- The **new AVO attributes** are available (R squared, Synthetic Angle Stack, Envelope Far Near Far),
- The **Envelope Derivative 1st & 2nd** have been added to the attributes related to Volume, 2D Line, Horizon and Horizon Stack Attributes - Real time for Volumes and 2D Line,
- The **Amplitude Balancing** tool is available in Volume module list,
- The **Polarity attribute** was enriched with the display of real values,
- The **new Smoothing** options are available,
- The **Optimization** on different tools is available
- The **Visualization and Interface** of different parts are available
- The **OpenWorks®** Data Link is improved in this version.

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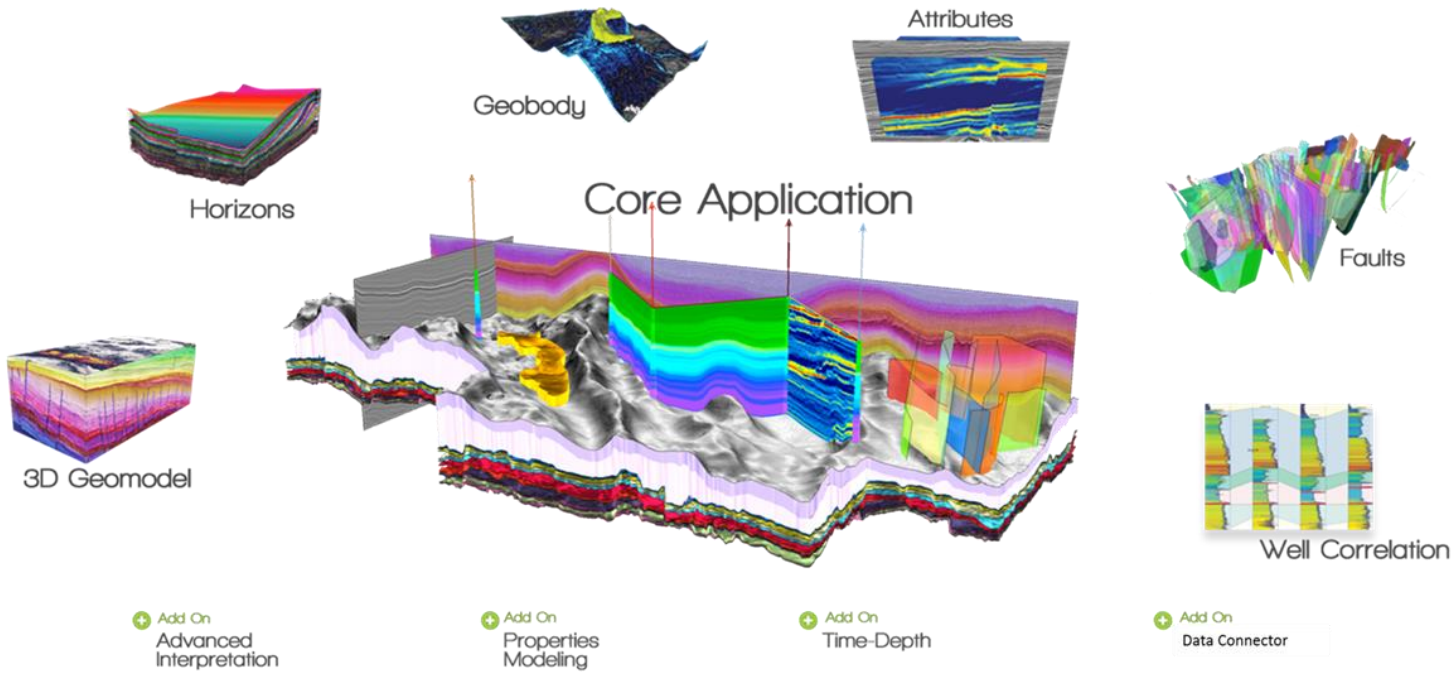
This document lists all the new features and upgrades implemented in PaleoScan™ 2021.2.0. A detailed description of each tool can be found in the "User Guide" or on the web site (www.eliis-geo.com).



New Features & Improvement

Platform

Feature	Description
Physical memory	Optimization of the physical memory usage to overcome computation.
Unit/CRS Editor	Interface optimization of the Units/CRS editor: sorting and filtering options added.
Export folder	Possibility to save several objects in a specific export folder path to avoid specifying it for each export.
Toolbar	Adjustment of the default Module Toolbar location in the main toolbar to make it more visible.
Settings	Ability to change the Application Style in realtime without needs to restart PaleoScan™ from the Windows Settings.

Import

Feature	Description
SEG-Y Import	List reorganization of the 2D and 3D SEG-Y Import parameters.
SEG-Y Import	Changing default options in the 2D SEG-Y Import tool (Start Time) to make it more consistent.
Well Import	Improvement of the well data import result by clarifying the action performed by PaleoScan™.

Horizon Stack

Feature	Description
Attribute	Reorganization of the seismic attributes list in the Horizon Stack Creation window in alphabetical order, making it easier finding the attribute by group.

Attribute

Feature	Description
2D attribute	Adding two Smoothing attributes generation for 2D Line, 2D Line Set, 2D Line Model and 2D Line Set Model: Box Smooth and Gaussian Smooth.
Envelope derivative	Implementation of two new instantaneous attributes available for computation from Volume, 2D and Horizon: Envelope derivative 1st and Envelope derivative 2nd.
Amplitude balancing	New tool to balance the amplitude of several volumes according to a reference volume.
New AVO Post stack attributes: R squared	In the Volume toolbar, the new attribute R squared is available to improve result QC.
New AVO Post stack attributes: EFNF	In the Volume toolbar, the new attributes Envelope Far Near Far is available. It highlights AVO classes based on the envelope.
New AVO Post stack attributes: Synthetic Angle Stack	In the Volume toolbar, the new attributes Synthetic Angle Stack is available. It helps to QC results by the creation of a volume with a particular angle according to the approximation method.
Polarity	Adding the ability to display the real values of data for the existing Polarity attribute instead of binary values (-1, 0, 1).
Volume Merging	Adding an Amplitude Balancing option in the Volume Merging tool.

Model Grid

Feature	Description
2D Model Grid	Reorganization of the Model-Grid creation interface in order to highlight the Auto Interp option.
Horizon Viewer	Horizon Names displayed for 2D and 3D Model-Grid are now displayed in Horizon Viewer.

Color Bar

Feature	Description
Color Bar	Homogenization of the Color Bar for 2D & 3D Attribute computation (under sampling preview and output).
CPU Consumption	Color bar optimization in order to avoid high CPU consumption.
2D Attribute	In the 2D Attribute computation tool, if a 2D Line Set input has an assigned color bar, same color bar is applied in the associated viewer.
Seismic Relief	Adapting the default color bar associated to the seismic relief attribute to make it conventional.

Properties

Feature	Description
Object Properties	Adding the ability to access the Object Properties for Multi-Z, 3D Horizon, 3D Horizon Stack, Flattened Volume, Flattened Model and Real-time attributes.
2D Viewer	In the Display Properties, adding the Smoothing parameter option (available for 2D Line attributes) to help highlight and improve the visualization of seismic zones in the 2D viewer.
Name display	Adding the option to select the Name display in the map view from Properties, for 2D Line and 2D Line viewer.
GeoTIFF Properties	Ability to access the Object Properties for GeoTIFF was added.

Viewer

Feature	Description
Alpha Blending viewer	Adding a reset parametrization button when doing three channel blending.
Viewer Settings	Improving the behavior between 2D Viewer Axis Properties and Settings for the hide/show scales shortcut (Shift+A).
Session	Improving the Session restoration for the 2D Geo-model viewer by preserving the saved viewers order.

OpenWorks®

Feature	Description
Licensing	New OpenWorks® connector license management: Automatic connection to OpenWorks® license from PaleoScan™.
Licensing	Improve crash management by adding a specific dump file to avoid overwriting PaleoScan™ file.
OpenWorks® Connector	Optimization of the speed process for the OpenWorks® connector on large database.
OpenWorks® SDK	OpenWorks® SDK and DLL are out of the PaleoScan™ installation folder making the software installation faster.

Maintenance

Feature	Description
3D Horizon Stack	Missing objects management into session saving and loading.
Horizon	Fix a bug on Color Bar when saving real time Horizon Stack.
3D Attribute	Fix a bug on AVO attributes with disabled and unselected outputs.
AVO Post-Stack Analysis	Fix a bug on output volume size estimation.
Spectral Decomposition	Fix a bug on Seismic, Spectrogram and Preview Aspect Ratio results.
Volume	Fix a bug on output volumes created in wrong directory while working on remote.
Velocity Modeling	Fix a crash on truncation list menu in New Strati viewer tool.
2D Line	Fix a bug on Color Bar for data mapping model on 2D Line.
2D Line Set	Fix a crash on 2D Line Set from context menu of the project browser.
2D Model-Grid	Fix the issue on 2D Model-Grid display using tracking mode.
3D Model-Grid	Fix a crash at Model-Grid opening due to corrupted objects.
3D Model-Grid	Fix a crash for Model-Grid creation using bounding horizon.
3D Model-Grid	Fix a crash on Model-Grid Constrain using multiple horizons with no time map.

3D GeoModel	Fix a crash related to corrupted Model-Grid and adding information about the corrupted object (the fix impacted also the following corrupted objects: geobody, faults, layers).
2D Viewer	Fix issue of Stretch and Squeeze shift with synchronized multi-dimensions viewers.
3D Viewer	Fix a bug on Display Properties for 3D object selection in 3D viewer.
3D Strati Sequence	Fix a crash occurring while reading volume frame from sequence computation.
3D Strati Sequence	Fix session restoration and warning messages associated using Strati Sequence.
Geocellular Grid	Fix a crash at the Geocellular opening.
Geocellular Grid	Fix an issue with units in feet CRS while creating Geocelullar Model.
Color Bar	Fix a crash on mouse mode changing while picking horizons.
Blending viewer	Fix a crash at cross plot computation for large velocity volumes.
Well Marker	Fix a bug on Import Markers from well log table overwriting existing Markers.
Well Marker	Fix a bug on locked window in New Marker Set from Well/Log table.
Well Log	Fix a bug on Input log selection in Property Modeling.
Well Log Viewer	Fix a bug on Log selection on the track.
Multi-Z Import	Fix a crash occurring when trying to import a 3D Multi-Z in Shapefile format outputted from Petrel
Property Modeling	Fix a bug on saved sequence from Well Property Modeling.
Wavelet	Fix a bug on In-Line view aspect ratio in wavelet creation tool.
Session	Fix issue on saved session with restored 3D Strati Viewer.
Session	Fix an issue on checkboxes not retrieved in Windows List after restoring session.
Session	Fix a bug on Interpolation method property not restored.
Project Browser	Fix a bug on renaming an object with a space in the end.
OpenWorks®	Fix a bug on corrupted volume upon import from OpenWorks® to PaleoScan™.

Licensing

PaleoScan™ 2021 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™ 2021. The temporary license will give you full access to the software with all add-on modules.

Project Compatibility

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

Forward compatibility:
Projects saved with previous versions of PaleoScan™ can be updated to PaleoScan™ 2021 when the projects are being loaded.

Backward compatibility:
Projects created with PaleoScan™ 2021 can also be opened with previous versions (2020 or 2019). However, some new object properties might not be readable by earlier versions.

Hardware Requirements

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)