



*Version 1.0.162.0*

# **Release Notes**

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## **OpenMind v1.0.162.0**

### Enhancements:

- OP-34 Inform user of eventual newer stable versions
- OP-353 Composite seismic intersections
- OP-431 Seismic polarity visualization choice per seismic and project
- OP-640 Update installation of ML Python dependencies
- OP-670 Units support when importing well deviation .dev files
- OP-731 Load all traces into memory for VOI

### Bugs fixed:

- OP-668 Problem with reading .dev file
- OP-675 Extracted body: Does not appear correct in flatten mode.
- OP-707 Volumes should be calculated down to input contact
- OP-725 Issue on VOI when loading realized cropped volume
- OP-726 Missing Ruler (scale bar) icon
- OP-729 Fill in small holes not working as expected

## **OpenMind v1.0.139.0**

### Enhancements:

- OP-712 Import multiple 2D lines with the same settings
- OP-715 Performance improvements while dragging planes
- OP-719 Added Isopach horizon attribute

### Bugs fixed:

- OP-714 Problem loading 2D seismic files
- OP-716 Histogram gets "inverted"
- OP-717 OpenMind doesn't recognize well logs when opening project
- OP-718 OpenMind hangs after successive "Load all traces into memory"
- OP-721 Regression: Imported Spectral Decomp cube lacks color settings
- OP-722 Zmap format issue

## **OpenMind v1.0.116.0**

### Enhancements:

- OP-609 Add support to Fault subfolders
- OP-689 User request: way to visualize/filter discrete property values in imported AVO classes volume

OP-691 Introduce Create/Edit Composite Plane  
OP-692 Improve color support for polygons  
OP-708 Upgrade to .Net 8.0  
OP-710 Introduce "Clear memory" for all objects

#### Bugs fixed:

OP-678 Extent of attribute maps exceed the actual extent of original seismic when the "Mix with" and "Overlay by" is turned on  
OP-685 Copy visual settings to same folder problem  
OP-686 Issue when training 3D UNet for AI horizon interpretation  
OP-688 Exception when importing shapefile  
OP-690 Unload all traces does not free memory instantaneously  
OP-699 Different color bars being presented, depending on seismic format  
OP-701 Flickering seismic lines when moving plane  
OP-702 Well data in in old project does not appear  
OP-709 Issue loading saved project  
OP-713 Curtain option not working, after introduction of Composite plane

## **OpenMind v1.0.34.0**

#### Enhancements:

OP-523 New coordinate system library  
OP-652 Adjust z-level of imported geotiff images  
OP-656 Add comments to Variance attribute  
OP-661 Clean-up repeated horizon tracking AI methods  
OP-665 New Make Surface tool  
OP-667 Improvements on reconnecting missing seismic and geotiff files

#### Bugs fixed:

OP-662 Color bar not appearing when loading specific zgy file  
OP-664 Reading Formation Tops failed  
OP-671 Horizons seem to be linked somehow  
OP-672 Loading project with 2D lines cause error  
OP-674 Fix editing 2D Line Plane Node

## **OpenMind v1.0.0.0**

#### Tasks:

OP-207 Well import with multiple wells  
OP-412 AI image-based fault interpretation - research task

OP-419 Creating "seed cube" as starting point for fault interpretation  
OP-420 Adaptation FloatImage3D for fault interpretation  
OP-421 Implementation of convolutional neural network for fault learning and inferencing  
OP-437 Use mini window to display the seismic spectrum  
OP-498 Load, visualize, and interpret seismic 2D segy files  
OP-514 Upgrade OpenMind to .NET 7  
OP-519 Show which TDR is active  
OP-524 Implement Variance Attribute  
OP-525 Add frequency spectrum to mini-window  
OP-528 Introduce Velocity mini window  
OP-532 Introduce Velocity Model  
OP-538 Export polygons  
OP-539 Introduce Volume Models  
OP-540 Volume calculations improvements  
OP-544 Added "exclude well" to Velocity model  
OP-545 Contour/contact line for Volume model  
OP-547 Calculate Acoustic Impedance (AI)  
OP-549 Collapse all / expand individual folders and objects  
OP-551 Calculate vertical P-P reflectivity from Acoustic Impedance  
OP-552 Convolve reflectivity with wavelet  
OP-569 Make "Restore Default Layout" not to divide in two vertical blocks  
OP-585 Add missing CRS code for Australia  
OP-563 Change "Add Context" to "Add Culture Data"  
OP-565 Move "Project settings" to top menu of OpenMind  
OP-566 Change "Operations" to "Workflow"  
OP-567 Change "Logs" to "System log"  
OP-570 Make "Optional fields" in the well heads import dialog collapsable  
OP-583 Seismic file appears locked for OpenMind  
OP-593 Segy importer improvements and optimization  
OP-594 Makes well heads the only format available when importing wells on new projects  
OP-595 Update "Load data.." text showed on new projects  
OP-596 Allows scaling of well tops symbol and labels separately  
OP-597 Improve deleting multiple objects simultaneously  
OP-598 Improve usability for CRS selection on import  
OP-603 LAS individual file importer  
OP-604 New "Body Extraction" tool added to OpenMind workflow  
OP-605 Add support to multiple kelly bushing keywords when loading LAS file  
OP-606 "Drag and drop" accepted OpenMind file formats from Windows Explorer directly into "Data Explorer"  
OP-613 Export geotiffs  
OP-616 Improvements and fixes on LAS importer  
OP-617 New "flat" icons added

OP-621 ZGY file open in Petrel cannot be opened in OpenMind  
OP-623 Improvements on LAS file reader  
OP-625 Improvements on wells and well top picking  
OP-628 Improve collapsible segy import preview window  
OP-631 Window gets focus from hovering over  
OP-633 Horizon looks discontinuous in "Lock camera to plane" view  
OP-634 Generate Time-Depth Relation without well tops  
OP-637 New convergent gridder horizon fill type  
OP-638 Introduce Surface calculator  
OP-641 Re-using settings when creating new fault object  
OP-642 Introduce Make Synthetic Trace log on the Well Tie Workflow  
OP-644 Display synthetic trace  
OP-649 Introduce Trace Calculator seismic attribute type  
OP-650 Enhancements on Make Synthetic Trace log  
OP-653 New Well log projection in plane command

#### Bugs fixed:

OP-513 Error when using AI horizon interpretation  
OP-521 Generate Time-Depth Relation ignores water depth at well  
OP-529 Wrong tooltip on Save project  
OP-531 Well tops label visualization issue  
OP-533 "View from" button occasionally shown wrongly  
OP-541 Issue when loading seismic on new projects  
OP-543 OpenMind crashes when clicking on volume directory output selector  
OP-571 No error message when loading of seismic with different geometries on the same survey  
OP-575 Information text not visible  
OP-584 Crash when importing segy from Australia with specific parameters  
OP-591 "Volume of interest" settings lacks vertical control  
OP-592 Error loading small segy file  
OP-608 Selecting the Fault Probability cube from the Explorer tab using the blue arrow in front of the input field under Auto Tracking Settings, does not work.  
OP-610 Horizon visualization problem  
OP-611 Well tops are not shown when visualized  
OP-614 Not possible to draw polygon in Time domain  
OP-615 CRS not properly recognized when importing shapefile  
OP-619 A Petrel zgy file can not be read by OpenMind  
OP-620 Error when loading Horizon points with values separated by tab  
OP-622 Wrong horizon visualization  
OP-624 CRS not being recognized when loading well heads file  
OP-626 Cubes realized inside VOI do not react correctly to horizon flattening  
OP-627 Seismic plane does display correctly for huge cubes

- OP-629 Timeslice below VOI behaves strange
- OP-630 Freepoints always visible
- OP-635 Error when loading Open Zgy file
- OP-636 Dock panels resizing issue (non-precise movement)
- OP-648 Fault probability model need active cube

## **OpenMind v0.1.2645.0**

### Tasks:

- OP-55 Add signing to OpenMind installer
- OP-236 Read log values at picked location
- OP-264 Import data from Avary
- OP-279 Read Petrel .crsmeta.xml coordinate information
- OP-337 Seismic attribute calculator I
- OP-342 Generic points import on Interpretation folder
- OP-390 Adds support to NAD27 in coordinate reference system
- OP-434 Create new Well tie workflow
- OP-439 Introduce Seismic Spectral Decomposition
- OP-444 Using the Volume of Interest in the Realize operation
- OP-445 Crop volume: export to honour VOI boundaries
- OP-446 Include Python on OpenMind installation
- OP-455 Enabling different cube sizes on the same survey
- OP-459 Update Bundle installer to run with code signing certificate
- OP-467 Allow Overlay/Mix/Curtain visual options to be used simultaneously
- OP-468 Add support to logarithm well log visualization and color bar
- OP-474 Introduce new Seismic Attributes: Instantaneous Frequency, Derivative, Integration.
- OP-475 Make horizons honor vertical VOI range, when VOI is active
- OP-479 Introduce tiles for timeslices
- OP-485 Introduce Enhance Local Contrast operation
- OP-488 Draw simple polygon
- OP-501 Lock Camera to Plane
- OP-507 Create new plane option, when in "Locked plane" mode
- OP-509 Color updates on spectral decomposition attribute
- OP-510 Shapefile improvements when used with "View all"
- OP-503 Add instrumentation to OpenMind
- OP-515 Improvements on color blending
- OP-516 Enhancements on Mini Window

### Bugs fixed:

- OP-373 Too many icons are highlighted as active

OP-379 Active Operations do not reflect workflow  
OP-381 Interpreting free points: Line on seismic section should be visible  
OP-448 Split window function is not stored when project is saved.  
OP-458 Deleted window reappears after saving project  
OP-468 Add support to logarithm well log visualization and color bar  
OP-499 Issue with visualizing segy seismic file (Lime Petroleum)

## **OpenMind v0.1.0.2503**

### Tasks:

OP-364 Zoom by scroll wheel works opposite way  
OP-378 Update references in OpenMind-Python-Tool

### Bugs fixed:

OP-259 North arrow disappears in Orthographic view  
OP-262 "Rerun selected seed point"  
OP-368 "Blue circle" does not indicate "action needed"  
OP-374 Wells in time domain hanging under a black surface, not inside a black cube

## **OpenMind v0.1.0.2500**

### Tasks:

OP-299: Show line number in preview  
OP-372: Only surface from autotracked seed points can be displayed with amplitudes. This should not be our end product. Up for discussion

### Bugs fixed:

OP-193: Wrong file names on Installer  
OP-375: Fault points are not included in the surface before you increase the Max bay width. You need to keep increasing it!

## **OpenMind v0.1.0.2481**

### Main updates:

- New version of Python Tool (v0.0.5.dev3), supporting interpretation and horizon objects
  - <https://test.pypi.org/project/OpenMind-Python-Tool/0.0.5.dev3/>



- It is recommendable to upgrade to the latest stable Python version (3.10.X), and latest version of other dependencies as well (grpcio, protobuf, etc.)
- Revamping on internal messaging system
- Optimizations on AI auto-tracking
- Adds filtering on shapefiles containing multiple shapes
- Bug fixes on free points
- Other small fixes and improvements

#### List of tasks:

OP-184: Python Tool: add support to Horizons  
 OP-260: Delete seed points  
 OP-319: Fault planes are filled. Should be gaps.  
 OP-324: Lines are breached

#### Bugs fixed:

OP-287: Interpreting using seed points fail  
 OP-310: Too many active elements  
 OP-323: Manual interpretation x-line cylinders too high

## **OpenMind v0.1.0.2465**

#### List of tasks:

OP-183: CRS library upgrades

#### Bugs fixed:

OP-321: Error message when clicking "Ctrl+A" on fault points  
 OP-325: Missing New 3D Window menu button  
 OP-328: Error when training AI interpretation

## **OpenMind v0.1.0.2461, with Python Tool v0.0.5.dev2**

### List of tasks delivered:

- OP-231: Update project after changing Templates.xlsx
- OP-235: Install Color Maps folder on user AppData
- OP-242: Workflow improvements around interpreting previously interpreted seed points
- OP-269: Select multiple seed points with Ctrl-click
- OP-320: Enables using fault probability cube as input to autotracker

### Bugs fixed:

- OP-265: Making surface from horizon fails
- OP-309: Erasing seed points with x-circle - crashed

## **OpenMind v0.1.0.2455**

### List of tasks delivered:

- OP-91: Magnify from center
- OP-300: Use comma as a separator in Generic points

### Bugs fixed:

- OP-252: Autotrack Resolution Issue
- OP-253: Autotrack avoid seed points
- OP-256: Hourglass blocking Horizon tracking from seed points
- OP-284: Seed point Visualisation
- OP-294: Multiple 3D windows issue
- OP-297: Cryptic error message when autotracking
- OP-306: Error message when interpreting near undefined areas
- OP-308: Old bug is back. Dots remain after surface delete.
- OP-309: Flatten horizon gives error message

## **OpenMind v0.1.0.2451**

### List of tasks delivered:

- OP-209: Introduce "Make surface from horizon" operation
- OP-210: Autotracking extensions (review over buttons functionality)
- OP-288: Review over FileShare option when opening zgy file
- OP-305: Introduce "free points" for manually extending horizon interpretation

### Bugs fixed:

- OP-240: Crash on import of KingdomExport.sgy
- OP-249: Generic points fails with XYZ format
- OP-277: The volume is rotating in north south direction, but not in east-west direction
- OP-283: Dozens of Error pop-ups when opening project saved with AI-interpreted horizon
- OP-286: ZGY Import fails from external disk (Lundin T drive)
- OP-290: Shapefile does not appear after saving project
- OP-291: Error loading project saved with Geotiff images
- OP-302: Storing a zgy file from a segy file in OpenMind gives an error message

## **OpenMind v0.1.0.2422**

### List of tasks delivered:

- OP-208: Investigate Blueback Avary API
- OP-276: Extend support to new shapefile type not yet supported
- OP-282: Change order for seismic import format

### Bugs fixed:

- OP-266: Autotracker makes yellow line interpretation without filling surface
- OP-281: Horizon Visual settings missing when opening saved project
- OP-285: Missing Global well logs top icon

## Document history

<b><i>Date</i></b>	<b><i>Details</i></b>	<b><i>Editor - Title</i></b>
2022-11-19	Initiated document	Flávio Ivan - CTO
2023-03-31	Updates for version 0.1.2645.0	Flávio Ivan - CTO
2023-10-12	Updates for version 1.0.0.0	Flávio Ivan - CTO
2023-12-16	Updates for version 1.0.34.0	Flávio Ivan - CTO
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2024-03-06	Updates for version 1.0.139.0	Flávio Ivan - CTO
2024-04-03	Updates for version 1.0.162.0	Flávio Ivan - CTO