



Version 1.0.657.0

Release Notes

Index:

OpenMind v1.0.657.0, with Python Tool v0.0.7.dev1	3
OpenMind v1.0.546.0	3
OpenMind v1.0.453.0	4
OpenMind v1.0.419.0	4
OpenMind v1.0.326.0	5
OpenMind v1.0.293.0	5
OpenMind v1.0.209.0	6
OpenMind v1.0.162.0	6
OpenMind v1.0.139.0	6
OpenMind v1.0.116.0	7
OpenMind v1.0.34.0	7
OpenMind v1.0.0.0	8
OpenMind v0.1.2645.0	10
OpenMind v0.1.0.2503	11
OpenMind v0.1.0.2500	12
OpenMind v0.1.0.2481	12
OpenMind v0.1.0.2465	13
OpenMind v0.1.0.2461, with Python Tool v0.0.5.dev2	14
OpenMind v0.1.0.2455	14
OpenMind v0.1.0.2451	15
OpenMind v0.1.0.2422	15
Document history	16

OpenMind v1.0.657.0, with Python Tool v0.0.7.dev1

Enhancements:

- OP-180 Python Tool: allow indexing seismic data using In-, X-line numbers
- OP-658 New Zones attribute: automatic colouring of horizon zones
- OP-807 Python Tool: support to convert between (I, J, K), (Inline, Xline, Time/Depth position), and (X, Y, Z) indexes
- OP-819 Introduce auto-track using Slope attributes
- OP-804 Python Tool: support for accessing Wells and Well logs' data
- OP-825 Improve Zones attribute so that horizons don't cross zone above
- OP-826 Realize Zones attribute cube as zgy
- OP-828 Make Realize Zone attribute faster

Bugs fixed:

- OP-821 Issue loading LAS file when log type and unit are separated by dot "."
- OP-822 LAS file with empty block failing to import
- OP-817 Error loading specific OWX file
- OP-818 Probability template not set to fault probability output by default
- OP-823 Issue importing specific OWX file (many thousand wells)
- OP-824 No CRS question on import of 2D seismic
- OP-832 Wrong domain on label for 3D window

OpenMind v1.0.546.0

Enhancements:

- OP-410 Make well header less dependent on UTM zones
- OP-487 Improve annotation of horizon / surface
- OP-763 Mini-map when in Lock Camera to Plane
- OP-767 OpenMind dependencies upgrade
- OP-773 Add support to OWX csv format for importing multiple wells
- OP-786 Seismic Reference Datum (SRD) definition per project
- OP-787 Add Envelope and Sweetness seismic attributes
- OP-797 Change Delay Time default byte position on segy importer
- OP-798 Allow switching to new Configuration file
- OP-799 Multi file import for Irap classic lines format
- OP-800 Allow adding well tops manually
- OP-802 Add inside color on horizons shown on the mini-map
- OP-812 New Fault Surfaces attribute
- OP-814 OWX: Use well name when name and UWI are available
- OP-815 New Slope Attributes workstep

Bugs fixed:

- OP-788 Shapefile import fails due to Decimal error
- OP-801 Make Surface output cannot be reset
- OP-803 Issue loading specific shapefile file
- OP-808 Issue when importing second set of well tops
- OP-811 OWX file generating error on import

OpenMind v1.0.453.0

Enhancements:

- OP-756 Use default stratigraphic colors on horizons

Bugs fixed:

- OP-780 Cultural data shown when creating new window
- OP-782 Wells in wrong positioned after second import operation
- OP-783 Error when importing Charisma fault file out from Petrel
- OP-784 Issue when closing 3D windows
- OP-785 2D line failing to load in OpenMind, but loading after export from Petrel

OpenMind v1.0.419.0

Enhancements:

- OP-334 Link window cameras (viewport) together
- OP-587 Import and export fault objects
- OP-681 "Select" tools to be shown only when on "interpretation mode"
- OP-764 Add support for seismic export in segy 32bits
- OP-765 Add support to TRUSTED-HOST for when OpenMind is installed behind proxy server
- OP-768 Remove Warnings WIX1076: files not copied to ALLUSERS
- OP-771 Installs Geomind AS folder content on ProgramData and copy files during load, if not present
- OP-772 Add C++ Redistributable to Bootstrapper installer
- OP-774 Adjust test project after RegTie-BOK removal and OWT added to Templates
- OP-775 Multiple upgrades on OpenMind code dependencies
- OP-777 Add SUM as a Horizon attribute function

Bugs fixed:

- OP-762 Petrel horizon points not being shown after imported on Survey

OP-766 Simple velocity model not possible without wells
OP-769 OpenMind not loading without Registry license key entry
OP-770 HostService exception may prevent OpenMind from load
OP-776 Cuda package failing to install in Parallels virtualized Windows machine
OP-778 Irap imported line does not show up after saving project
OP-781 Exception when generating Time-Depth Relation (TDR) without Pseudo-TDR

OpenMind v1.0.326.0

Enhancements:

OP-751 Add Angle Stack Conditioning ML model
OP-752 Add certificate so that installer is recognized by Windows
OP-757 Upgrade on installer version
OP-758 Update OWT log names on well Templates.xlsx
OP-748 Transition to new licensing system - better support to virtual machine environments

Bugs fixed:

OP-704 Synthetic trace and impedance log does not appear consistently on seismic composite plane
OP-761 Fix Geotiff export issue

OpenMind v1.0.293.0

Enhancements:

OP-741 Add CUDA runtime to installer
OP-747 Add TensorRT to installer
OP-749 Use standard RGB colors to well tops

Bugs fixed:

OP-703 Synthetic Reflection Coeff Log does not appear as discrete values
OP-745 Polarity issue when autotracking
OP-746 Templates.xlsx access problem

OpenMind v1.0.209.0

Enhancements:

- OP-520 Add support to "Undo" in well top editing
- OP-698 Axes reversed when swapping viewpoint
- OP-724 Well log import improvement
- OP-732 Edit VOI in plane/map view
- OP-734 "Max time in ms" disabled by default
- OP-736 Show input cube mini-window for SpectralDecomp attribute
- OP-738 Python installation behind proxy server
- OP-744 Add license details on login pop-up when license is not activated

Bugs fixed:

- OP-705 Zooming in on 2d line view gives a black well ribbon
- OP-739 Issue loading specific 2D line which was missing some CDPs
- OP-706 Not possible to move well top when well trace is in front of the top

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 honor 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 the 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 surfaces 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 Visualization
- 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

<i>Date</i>	<i>Details</i>	<i>Editor - Title</i>
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
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