

## What's New: Geoteric 2023.2

Geoteric 2023.2 focuses on improved visualisation and smoother processing of 'big data' volumes. The new release enables high resolution Geoimage.tiff images of blends and seismic to be exported, allowing an unparalleled deep dive into the subsurface.

Geoteric's world-class HDFD workflows have been significantly enhanced for 'big data', up to 800GB, while improved performance reduces processing times by up to 70%. The upgrade also includes a better insight into data along wells using the well cross-section views with arbitrary lines that follow the wells trajectory to show faults, horizons and blends simultaneously.

### Key areas of updates in Geoteric 2023.2

- Smooth processing of larger 'big data' HDFD volumes of up to 800GB
- Enhanced HDFD workflows for up to 70% faster processing time
- Geoimage.tiff high resolution export for unparalleled subsurface visualisation
- Cross sections along well paths for display of seismic, colour and opacity blends
- Improved well path visualisation
- Improved integration of well deviation and checkshot loading
- Improved handling of checkshots and associating checkshots to wells
- Automatic loading of a folder of numerous trajectories and checkshots following an export from Petrel
- New example project available to download
- Geoteric is supported on Windows 10 and Windows 11

## Geoteric 2023.2 Fixed Issues

Ticket	Content
56	Improved well deviation loading so that wells rotating through 360degrees azimuth do not visually display as spirals
312	HDFD: Fixed a crash when manually moving the trace location in the spectrogram
380	Improved visibility in the 2D interpretation window: the intersection of the section's purple line and the small dots representing the intersecting interpretation lines, are now larger and much easier to see
394	Updated the DPI scaling such that scene text items on high dpi displays (e.g. text on the histogram, edit colour blend and interpretation windows) are larger and readable
446	Updated the user interface layout of the fault surface property tab such that the interface can now be fully seen
1180	Fault expression output for CMY colour blends now has the correct icon in the project tree and no longer a red exclamation mark
1201	Increased the size of the grab-handles on the seismic volumes for extent manipulation in the main 3D scene window for 4k screens
1203	Master project interface now fits in scene and does not mis-align text
1364	When creating a smoothed fault surface from fault stick sets the fault stick set colour is now maintained for the created fault surface
1410	Amended the misalignment of columns in the set spectrum table, in the Standard Spectral Decomposition workflow
1463	HDFD: Fixed an intermittent crash when opening the process
1502	Prevent the well markers from intermittently and momentarily increasing in size to fill the entire screen when viewing them
1562	Updated the fault stick filtering user interface dialog so that the option for adding filters is clearly seen
1738	Amended the size of the text on the axis labelling and numbering in the graphic for Set Spectrum in the Standard Frequency Decomposition workflow
3087	Frequency Decomposition CSV export option for floating point data, now correctly exports without clipping values less than 0.1 to zero
3297	AI installers: now able to specify an installation location during installation
3983	Increased the size of the input field for 'scale' for the Blend properties in the Frequency Decomposition workflow
4213	Fixed the crash which occurred specifically for HSV blends when colour mapping a horizon to that blend in the 3D scene and then selecting the Colour Blend Postscale button
4218	It was possible to delete a volume from the project, which was still required in an opacity blend. This would leave the opacity blend in a corrupted state unable to be used and is now prevented with an error message. Any required volumes for opacity blends must be deleted before the opacity blend can be deleted
4351	HDFD: Memory allocation has been improved so that it no longer causes crashes for processing of larger volumes. Tested up to 800GB
4540	Geoteric AI Horizons now gives an improved easy to understand message when the AI Server is not available
4583	If the default port for the Process Manager is not accessible, for example when used by another process, there is now an improved easy to understand and logged information
4587	Link for Petrel 2022 PIP file available

4605	When attempting to perform interpretation on a volume which is not suitable as input for Geoteric AI Horizons tracking, an error message informs of the problem and directs to the correct volume or workflow usage
4608	Stopping the AI Proxy service could have caused Geoteric to become unresponsive or give poor performance
4637 & 4640	HDFD improvements in performance of between 30% to 70%
4657	Well deviation and checkshot loading, warning given if the file has been changed between original scan and subsequent load
4646 & 4592	Added help information and text updates to the Geoteric AI Horizons user interface
4674	HDFD: It was possible to get a blank Preview result particularly with larger volumes, where the preview was still calculating whilst the colour frequencies, slice and decomposition type were being amended in the user interface
4687	Geoteric AI Faults icon would not update even when successfully connected to the server, remaining red and therefore appearing as though it was not connected. It now goes green when successfully connected
4717	HDFD: Improved memory handling and prevention of a crash for very large volumes (e.g. over 400GBs). Caused by a backlog of processing requests and increase in memory usage
4743	Well import dialogs (deviations & checkshots); the green arrows for data entry into the relevant field would not appear until you moved the mouse over them
4741	When manually adding checkshots through the Project Manager, deleting rows will no longer crash Geoteric
4744	Pasting values into the manual well editor TVD table caused Geoteric to become unresponsive for several minutes. The response is now almost instantaneous
4748	Updated the well deviation and checkshot loading – Scan button. Manually editing a well deviation or checkshot file, for example in Excel and saving it, whilst simultaneously loading that well file to Geoteric, will now require a rescan in the loading window for the changes to be registered and the correct values and data to be loaded. Without rescanning the loading will fail. Previously incorrect data could have been unknowingly imported
4767	Iso-Proportional Slicing on very large data (e.g volumes greater than 400GBs) could have caused a crash which is now prevented
4772 & 4731	Well names now accept forward- and backslash characters: / and \
4839	After importing a well, the cursor was a perpetual busy spinner giving the impression of a crash
4852	Master projects which have their domain in depth can now be used to load wells to a child project in depth without the erroneous requirement for checkshot data
4855	It is now possible to associate checkshots with any wells in the project. Additionally checkshots can be removed from wells. All checkshots are located in one place for easy access for amendment
4857	The AI installer now has versioning included into its name and throughout
4919	Improved performance for the calculation time of well related data when adding measured depth values to a well.
4920	Enabled the manual copy and paste of values into the table for well data
4930	User interface update to the license selector screen when using high DPI screens which caused the interface to be too small
4983	Fixed the truncation of text on the well logs Property tab
4984	Fixed the truncation of entry fields in the interface when loading well data

4995	It is no longer possible to choose to edit the well data of more than one well at once
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Depending on the resolution and DPI scaling, Geoteric may fail to size and position menus and icons appropriately. If this is encountered, please set Geoteric's High DPI scaling override to 'System (Enhance)'. See "Geoteric Resolution Settings\_June2023" document for resolution settings.