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Geoteric 2021.1 Release Notes

Geoteric's industry leading AI fault Interpretation, using 3D neural networks, is now also available to run inside your company IT environment.

Faults can be rapidly and accurately identified using deep learning convolutional neural networks (CNNs) which have been pre-trained to recognise faults from different seismic basins and with varying data quality. Therefore, the input can be seismic amplitude from any region or geological environment, quantity, or scale, in time or depth.

The workflows allow the user to enhance the initial results by fine-tuning the neural networks, allowing the geoscientist to remain in full control of their fault interpretation. In addition, there is the ability to manage the fine-tuned networks, enabling saving and archiving, to be available for other projects.

All these fault interpretation and AI Fault workflows are now available on your in-house desktops and workstation.

Key areas of updates in Geoteric 2021.1

- Evaluate faults using pre-trained 3D networks
- Further fine-tune 3D Fault networks to your specific geological setting
- Create your own customizable networks
- AI Fault network manager for all 2D and 3D networks
    - AI Fault network renaming and deletion
    - Export of networks to archive for later use
    - Import saved networks into a project
    - Network attribute information – when created, parent, foundation
    - Sorting the network list according to network name and attribute parameters
- The Link for Petrel is updated to allow data transfer between Petrel 2021 and Geoteric 2021

What do I need to do?

Access your download of Geoteric 2021 from your ftp location or speak to your sales representative.

Geoteric's AI Networks

Ash: For smaller sized, good quality volumes with medium and large-scale faults. It is capable of distinguishing individual segments in a dense network of faults.

Birch: Excellent regional solution for larger sized volumes with medium and large-scale faults. It is robust in poorer quality seismic data and produces a clean, well defined fault delineation.

Larch: Excellent solution for all volume sizes with faults of all scales. It benefits from data conditioning.

Confidence: Best all-round network for detecting faults across most scales except the very small faults. Gives a complete, clean, and continuous solution for mid to large scale faults.

Bug fixes

GT-2198	Error message running Geoteric AI Faults - 2D networks (formerly known as Collaborative AI) due to incorrect temp directory being set. This is now set correctly during the installation as an environmental variable.
GT-2578	Crash when renaming a fault set and setting it active
GT-2588	Crash when renaming a fault set and visualising it

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Known issues

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 the separate document for resolution settings.

An error message may be encountered on first start up of Geoteric on a new machine stating, "Unable to connect to host: Localhost". If this happens, click Cancel and reopen Geoteric and it will open.