

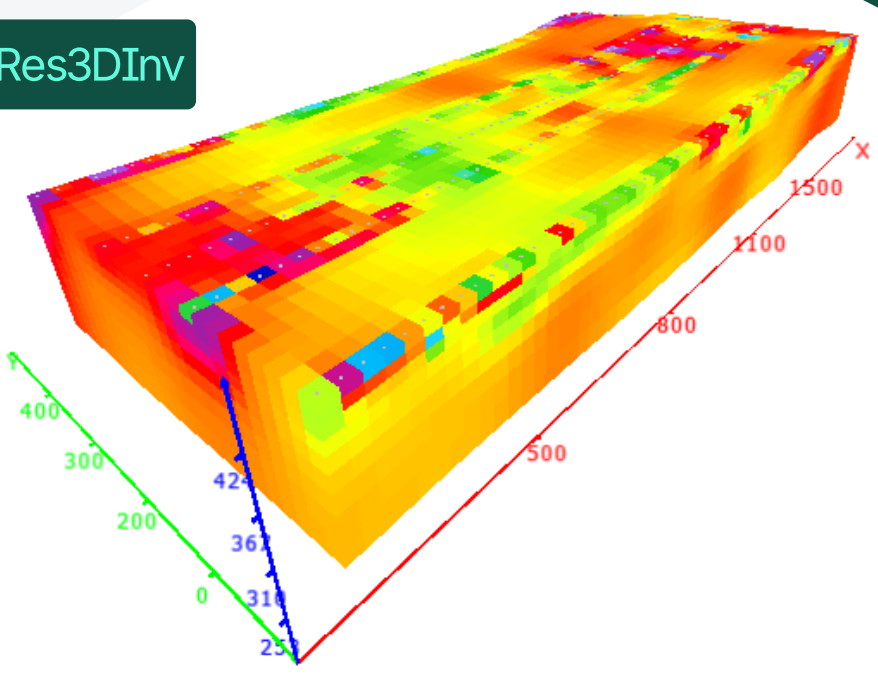
AGS™ Res3DInv

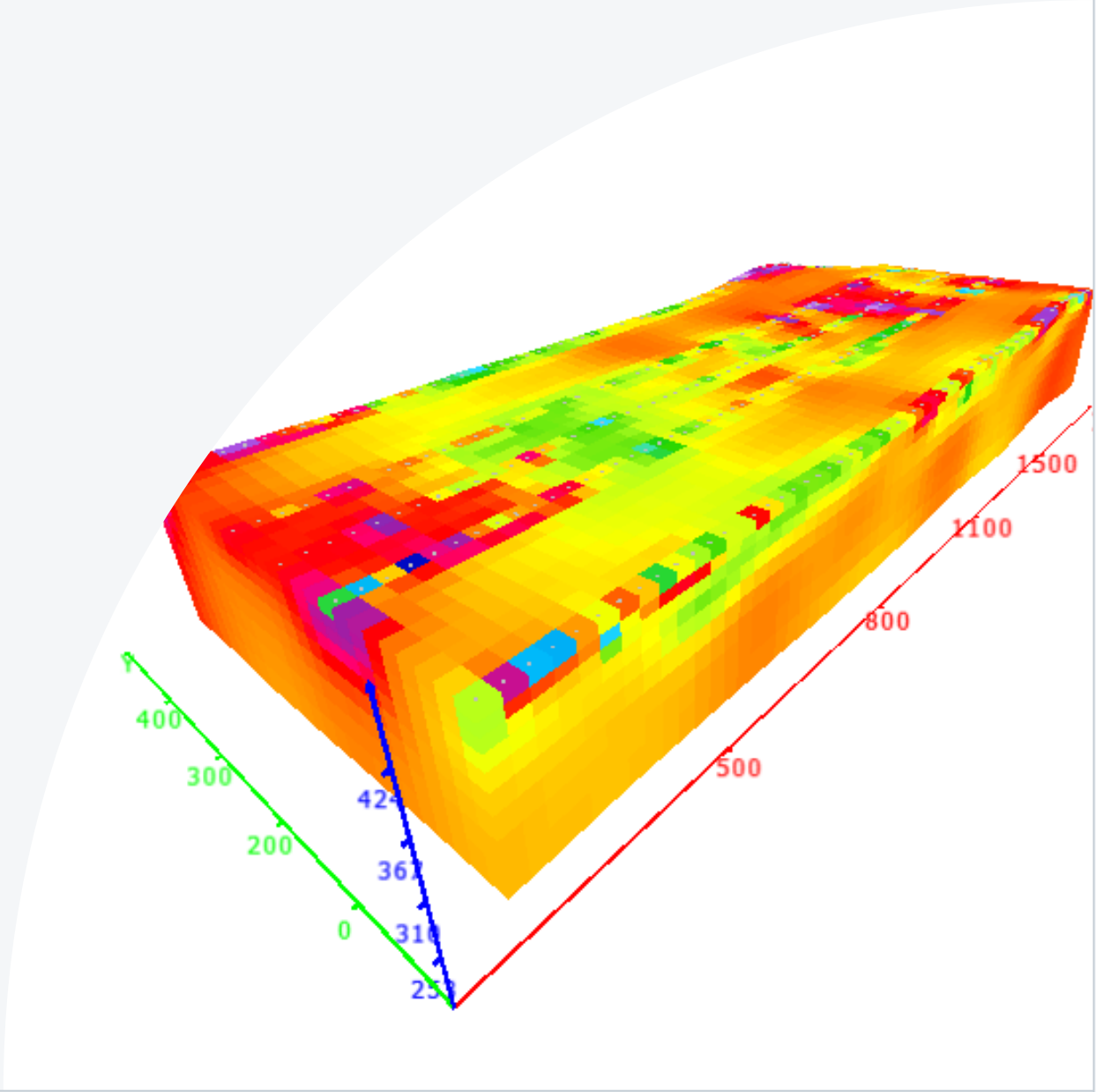
New release

AGS Res3DInv 2026.2

SEEQUENT

AGS™ Res3DInv





AGS Res3DInv 2026.2 Release Notes

This release improves integration across Seequent applications, reduces manual inversion-preparation tasks, and adds support for more complex survey configurations.

Top features included in Res3DInv 2026.2 include:

Integration across Seequent applications

- Export model output directly to Geosoft voxel format for import into Oasis montaj and Leapfrog.
- Retain Res3DInv-generated global coordinates in Geosoft GDB exports.

Reduce manual inversion preparation

- Automatically remove point electrodes that are too close together.
- Avoid unnecessary grid refinement and the additional computation associated with that workaround.

Support complex survey configurations

- Display and edit supported vector-array model grids.
- View subsurface borehole electrodes in the 3D Viewer.
- Adjust data-loading limits to better match available RAM and dataset requirements.

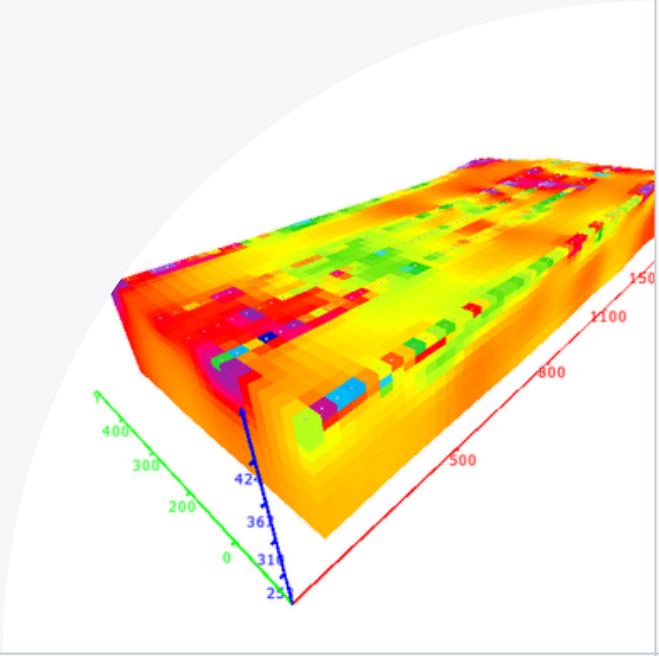
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New and improved features

Export directly to Geosoft voxel

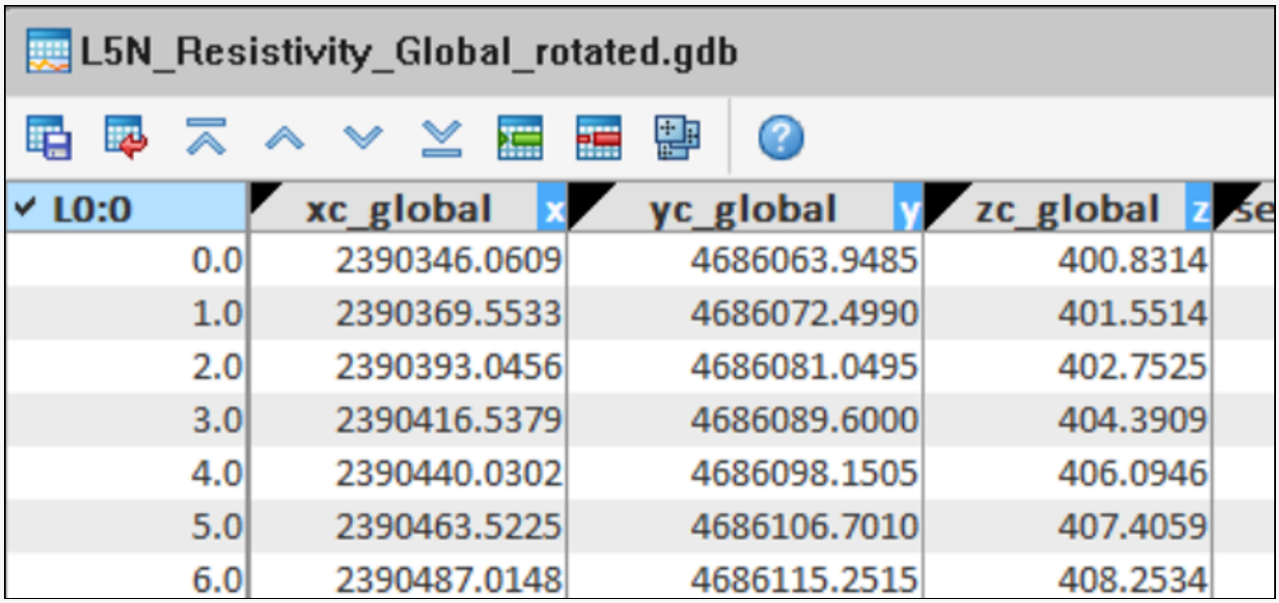
Export models directly to Geosoft voxel format for import into Oasis montaj and Leapfrog. Choose direct gridding or trilinear interpolation. The exported voxel includes resistivity, model topography, and IP and time-series data when present.

Previously, users needed to export the model output to GDB and create the voxel separately in Oasis montaj. This required users to configure the gridding, select an appropriate cell size and recreate or mask the model topography. Direct voxel export removes these separate voxel-creation steps. The coordinate system must still be assigned in Oasis montaj after import.

Conserve IRetain Res3DInv-generated coordinates in GDB exports

In some cases, Res3DInv calculates global coordinates, for example when rotating a model grid. These calculated coordinates are now included when the model output is exported to Geosoft GDB.

Global coordinates imported from the data or inversion file were exported correctly in previous versions. This improvement applies specifically to coordinates generated within Res3DInv. The coordinate system must still be assigned in Oasis montaj.



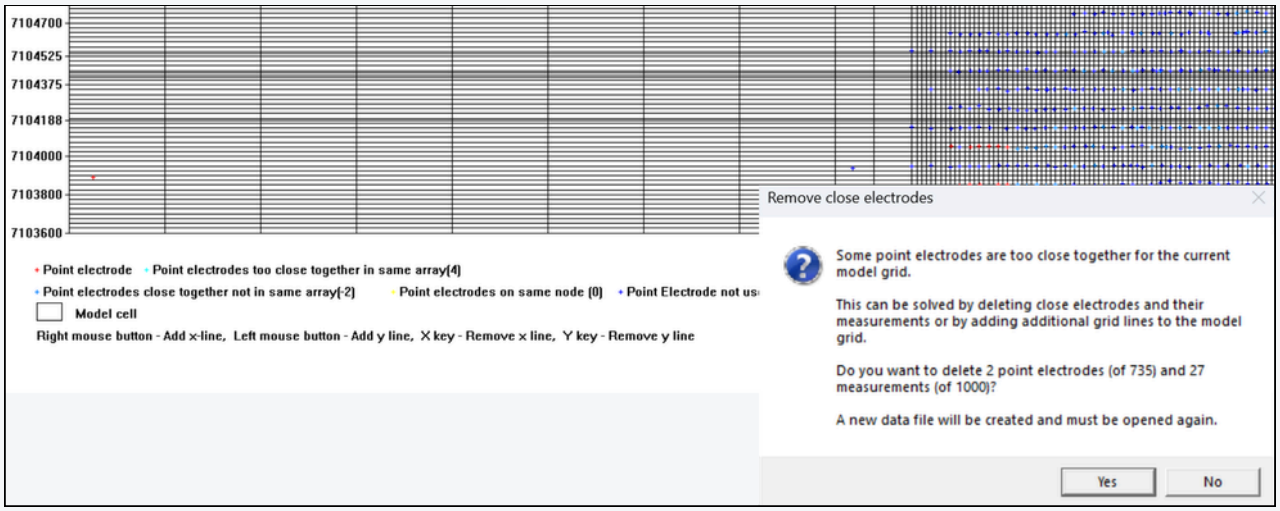
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2.0	2390393.0456	4686081.0495	402.7525	
3.0	2390416.5379	4686089.6000	404.3909	
4.0	2390440.0302	4686098.1505	406.0946	
5.0	2390463.5225	4686106.7010	407.4059	
6.0	2390487.0148	4686115.2515	408.2534	

Remove point electrodes that are too close together

The inversion cannot process more than one point electrode in the same model-grid cell. Previously, users needed to remove affected electrodes manually or refine the model grid until each electrode occupied a separate cell.

Res3DInv 2026.2 identifies point electrodes that are too close together and asks whether they should be removed. The threshold is determined from the grid and electrode dataset, and the software reports the number of affected electrodes.

This avoids manual data editing and grid refinement used solely to separate closely spaced electrodes.



Display and edit vector-array model grids

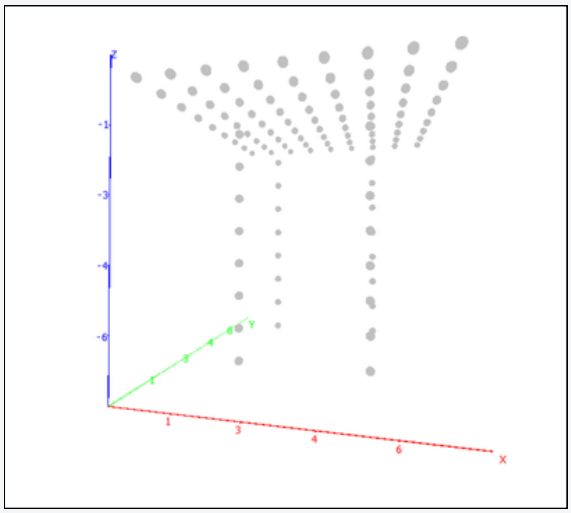
Model grids can now be displayed and edited for vector-array datasets where potential electrodes are located on model-grid nodes. In previous versions, attempting to display or edit the model grid for these datasets could produce an error or cause Res3DInv to close.

View subsurface borehole electrodes in 3D

The 3D Viewer now displays subsurface borehole electrodes alongside surface electrodes in their correct 3D positions. This allows users to review the electrode layout below the surface before data processing and inversion.

This is a visualisation improvement only.

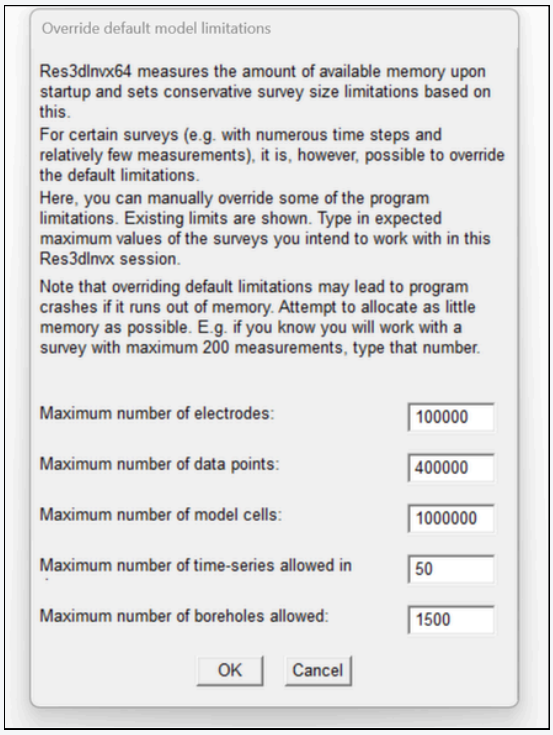
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Adjust data-loading limits

When Res3DInv starts, it assesses the available RAM and sets limits for the number of electrodes, data points, model cells, time series and boreholes it can load. Advanced users can now adjust these individual limits to better match the dataset being loaded.

For example, a user can increase the time-series limit while reducing the electrode limit. The total RAM available to Res3DInv does not change, so increasing one limit may require reducing another. Inappropriate settings can cause the computer to run out of memory.



What's changed in this release

New features

- Export 3D models directly to Geosoft voxel format for import into Oasis montaj and Leapfrog.
- Export of inversion results to Geosoft GDB format now also[ST1] exports calculated global coordinates when available.
- Automatically remove point electrodes that are too close together in arbitrary-electrode datasets.
- Display/Edit Grid: Vector-array datasets with potential electrodes located on model grid nodes are now supported.
- Display borehole electrodes at depth in the 3D Viewer.
- Added option to manually change program limits for loading of data files.

Corrected bugs

- Fixed an issue in the 3D Viewer where some cells in a section or volume cut could appear incomplete.
- Corrected scaling of the model-grid display when Res3DInv is opened on a monitor with a different resolution from the main display.
- Fixed corruption of embedded DAT sections when combining time-lapse data, tank boundaries and error estimates.
- Fixed handling of non-finite values in exported inversion results.
- Fixed incorrect scaling of resistance and error values in exported time-lapse inversion files.