# RadExPro 2025.3 release notes

We are happy to announce the next version of our software -- **RadExPro 2025.3**!

Here is the list of the key new features and improvements:

- The new **2D Kirchhoff Depth Migration** module adds 2D depth-domain imaging capability to **RadExPro**. Migration is performed in two steps: first, source and receiver travel times to every image point are calculated using an eikonal solver; then, the Kirchhoff depth migration summation is carried out based on these computed travel-time curves. The module includes an optional antialiasing algorithm for enhanced image quality in case of sparse survey geometry. It supports two types of migration weighting schemes and fully accommodates complex surface topography. Below, an imaging result is provided for a 2D synthetic node survey for a part of the Marmousi model. The sources are located just below the water surface; the receivers are placed on the seafloor.
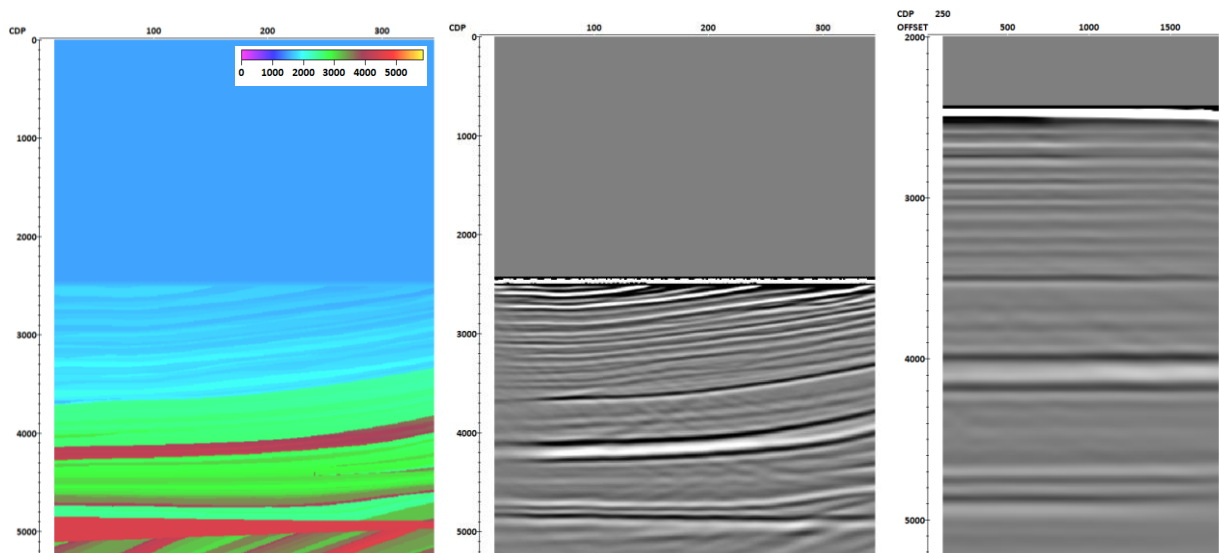

2D Kirchhoff Depth Migration, from left to right: true velocity model; migration result for the nearest offset bin; one of the common image gathers (with vertical zoom).

- The new **Cross-Correlation** module computes the cross-correlation function (CCF) between traces within a specified time range. The module can calculate the CCF either between pairs of adjacent traces or between each trace in the input gather and the model trace, which is provided as the first trace of the gather.

- The new **Velocity Trace Conversion** module converts velocity traces in the flow from any specified type to any other type. The velocities can be either in Time or Depth domain, the supported velocity types are: RMS, Interval, and Average.
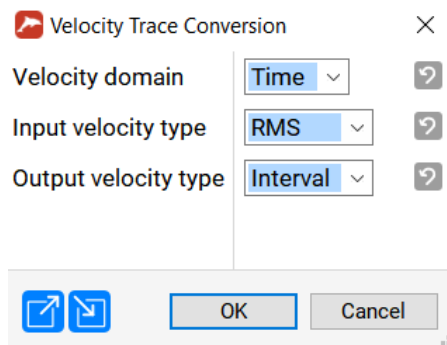
- In the **Screen Display** module, when multiple instances are linked, the **Ensemble Back** and **Ensemble Forward** commands, as well as switching frames in Frame Mode, are now synchronized.

- In the Real-Time configuration of RadExPro, the **EOL Report**, in addition to PDF, can now be generated in PPT format.

- We have added an option to process ensembles separately and parallelize the computation by ensembles to the following modules:
  2D Spatial Filter
  Zero-Offset Demultiple
  Header Averager

- We have added parallelization to the **Burst Noise Removal** module.

- In the **Trace Math Transforms** module, when computing amplitude spectra, you can now explicitly select the Spectrum Normalization factor:
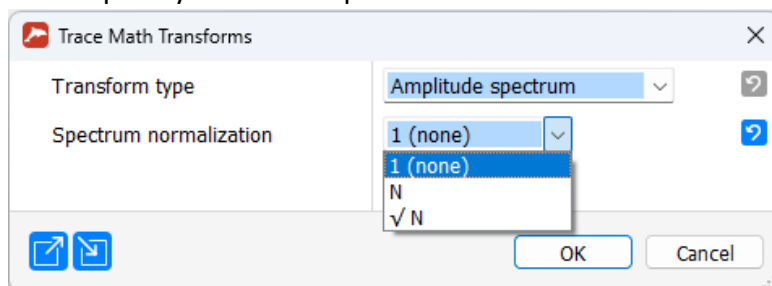
- We have transitioned several modules to the new universal parameter style. These modules now offer full support for replicas and include standard export/import functionality. The affected modules are as follows:

  Spectral Whitening
  3D CDP Binning
  Add White Noise
  Compute Line Length
  Dataset Math
  Dataset Merge

The following issues were fixed:

- o Interactive Grid Setup: visual bug in the position of grid origin -- **FIXED!**
- o 3D Regularization confuses inlines and xlines in CDP numbers -- **FIXED!**
- o PRODML HDF5 Input fails to read Optasense ODH4 -- **FIXED!**

As always, if your licenses are under maintenance, feel free to contact us at support@radexpro.com to receive your complimentary update.