

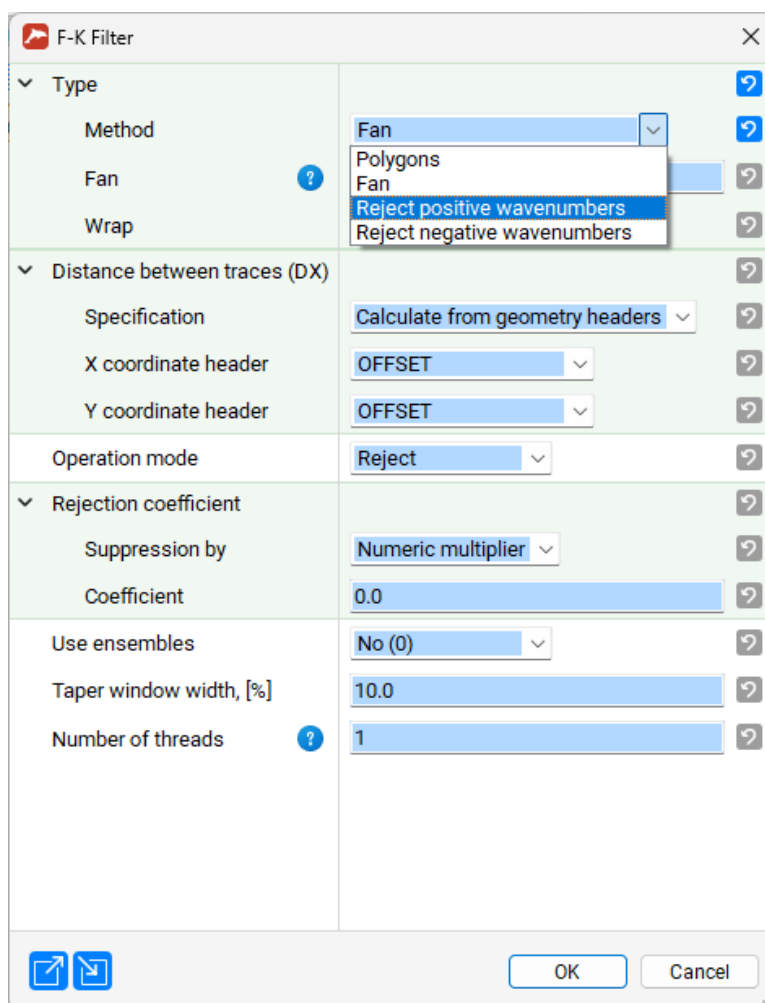
# RadExPro 2022.4 release notes

## Happy New Year 2023!

Welcome to the last **RadExPro** release of the year -- **RadExPro 2022.4** !

Here is the list of improvements in this new version:

- We have improved the functionality of the **F-K Filter** module. Now, besides using polygons or defining a fan filter, you can also reject all positive or all negative wavenumbers. Additionally, instead of just zeroing the rejected areas of the spectrum, now you can control the desired level of energy suppression – by specifying either a numeric multiplier or a suppression coefficient in dB.



- New **Time Variant F-K Filter** module allows you to apply different FK filter parameters to different time windows or keep some of the windows untouched while filter the others.

Time Variant F-K Filter

Horizons

[1] PICK1

Parameters for windows

[1]

Window usage: No (0)

Filtering type

Rejection coefficient

Taper window width, [%]: 10.0

[2]

Window usage: Yes (1)

Filtering type

Method: Reject positive wavenumbers

Rejection coefficient

Suppression by: Decibels

Coefficient, [dB]: 50.0

Taper window width, [%]: 10.0

Distance between traces (DX)

Specification: Set Manual

Manual DX, [m]: 1.0

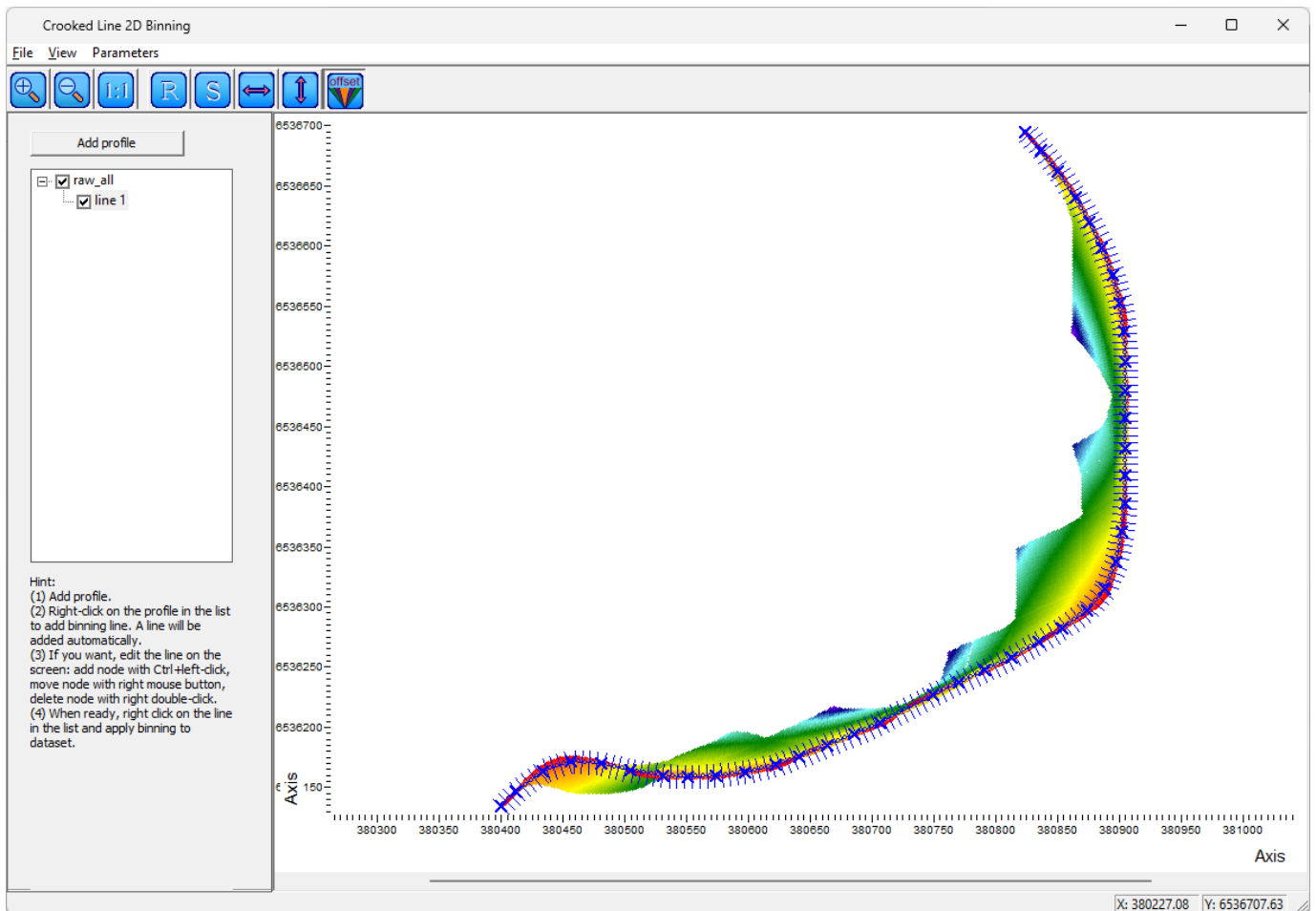
Use ensembles: No (0)

Tapering between time windows, [ms]: 40.0

Number of threads: 0

OK Cancel

- We have changed the automatic line binning algorithm in the **Crooked Line 2D Binning** module. Now you can efficiently use automatic binning line even in complicated cases with inconsistent FFID numbering or with infills.



*Automatically added binning line in the Crooked Line 2D Binning Module*

- We added two new functions to the **Trace Header Math** module:

*latlon\_utmx(lat, lon, meridian\_lon, datum)*

*latlon\_utmy(lat, lon, meridian\_lon, datum)*

You can use these functions to convert geographic coordinates to UTM, positioned on a specified *datum*. The *datum* parameter can be *NAD27*, *NAD83*, *WGS72* or *WGS84*.

- We extended the syntax of **Remap SEG-D main header values** string of the **SEG-D Input (Rev.3)** module. Now you can additionally use *3I* (3-byte integer) and *4UI* (4-byte unsigned integer) number representation formats there.
- We converted the following modules to the new universal parameter style, with total replica support and standard export/import facility:
  - Seg-D Input (Rev.3)** and **Real-Time Seg-D Input (Rev.3)**

- **2D Header Smoothing**
  - **Butterworth Filtering**
  - **Predictive Deconvolution**
  - **Offset DMO Binning**
  - **Ensemble QC**
  - **Shift Header**
  - **F-K Filter**
  - **Ensemble Stack**
  - **Trace Math**
  - **Amplitude Correction**
- The following issue was fixed:
    - Time/Depth Conversion does not work properly with velocities from a dataset or an ASCII file -- **FIXED!**
    - Incorrect estimation of 1D RMS amplitudes in the Ensemble QC module -- **FIXED!**

As always, if you are on maintenance, please contact us at [support@radexpro.com](mailto:support@radexpro.com) and get your free update.

***Season Greetings from Georgia!***



***We wish you a peaceful and prosperous New Year 2023!***

***Yours,***

***RadExPro Team:***

*Pavel Aleksandrov, Pavel Bannikov, Sergey Buryak,  
Anton Egorov, Artem Kats, Alexey Ovchinnikov,  
Anastasia Pirogova, Mikhail Poluboyarinov, Sergey Vakulenko,*