RELEASE NOTES

NAVIEDIT 8.8.1

Last update: 20/03/2024
Version: 8.8.1

Contents

1 Release notes NaviEdit 8.8.1

These are the release notes for NaviEdit 8.8.1.

NaviEdit 8.8.1 is a minor release and remains backwards compatible with previous versions of NaviEdit.

1.1 Formatting conventions

Items formatted in **bold** are properties, buttons or other elements in the NaviEdit software.

1.2 Database version

NaviEdit can connect to either SQL Server 2008 R2, SQL Server 2012, SQL Server 2014, SQL Server 2016, SQL Server 2017, SQL Server 2019 and SQL Server 2022.

The Microsoft SQL Server included in this NaviEdit installer is SQL Server 2019 Express. This SQL Server requires Windows 10 64-bit.

You can still install NaviEdit on a Windows 7 computer if you download the free SQL Server 2012 Express version or connect to an SQL Server on another computer. If you want to install NaviEdit on a Windows 7 computer, select the **Don't install the SQL Server on this computer** option during installation.

1.3 New features / Improvements

- Added import of Kraken TIL files.

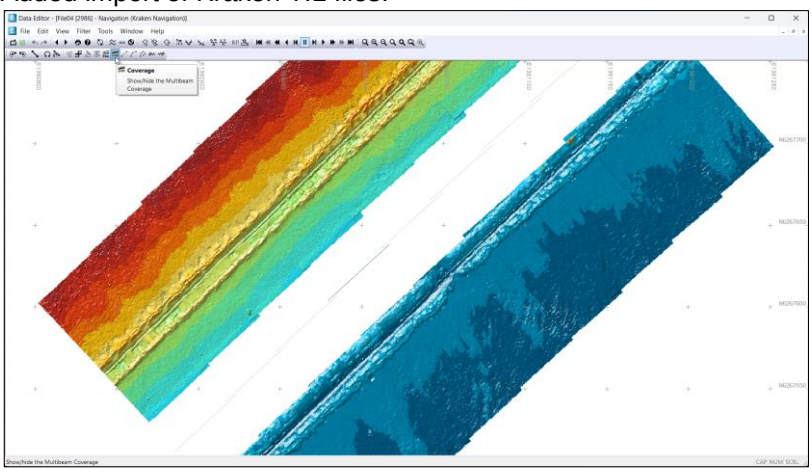
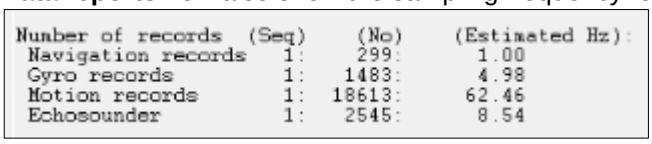


Figure 1 Import of Kraken TIL file

- **Data reports** now also show the sampling frequency for each instrument.



Number of records	(Seq)	(No)	(Estimated Hz):
Navigation records	1:	299:	1.00
Gyro records	1:	1483:	4.98
Motion records	1:	18613:	62.46
Echosounder	1:	2545:	8.54

- Enabling the use of NADCON datum shifts from the **Header Editor**. As all other datum shifts applied in the **Header Editor**, the transformation is first done on export/load from NaviModel.
- When doing **Recover Data Files**, the original location of the file is searched first. If a file is found, no dialog for directory selection is shown. Otherwise, a dialog is shown. If you select a base/parent directory, an in-depth search is done for files.
- When importing Solstice MBE the bathy is now included.
- Added **remove all profiles** in the Header Editor for sound velocity profiles.
- Added the option to add a file name suffix in **Export** dialog
- Added the option to include the runline name as extra field in the **NORCOM export**.

1.4 Bug fixes

- Fixed issue with recalculating KP in NaviEdit 8.8 (FD-59571) (J-23382)
- **JobPlanner Block ID** is now sorting properly by number and not alphabetically
- Fixed a connection timeout issue (30 seconds) for **Copy Block**
- Fixed an issue with some RLX runlines not being imported
- JSF import now reports the correct number of side scan packets
- JSF import issue fixed where the bathy/altitude was not always imported
- Fixed an issue with JSF files where a wrong start time could be used
- **Kalman Filter** dialog no longer shows 15 digits in input fields, now shows 2-3 significant digits
- **Reson7KInterpreter** treated as UTC time, no longer changes start time during import based on NaviEdit computer's time zone
- Allow the command **Merge Data Files** only on survey block types
- **Fau export** now sets *kind = 8 (thinned)* if the **skip Header Editor** filtered flag is set during export
- **Gsf export** now exports the 0-15 quality in the **quality_factor** (previously it was only in the quality_flags)
- Removed the **Run** option on the last installer page, as the admin privileges of the installer have other rights than the user running NaviEdit
- **Header Editor** now has 2 decimal digits only for svp and pressure eastings and northings
- The NADCON datum shift files are now only installed in the *ProgramData* folder, not in the *EIVA\Setup* folder.
- Fixed an issue where the datum shift (for geographical coordinates) during **SBD import** was only applied if the datum shift was enabled in NaviScan
- Fixed problem in the **Options** tab in **Header Editor** related to **Surface based (Vessel)** being actioned first, resulting in some of the other following changes such as **Disable bathy** not being saved
- Fixed a couple of date format issues, one in the **Ascii Importer** and one in the **Sound Velocity Profile** dialogs

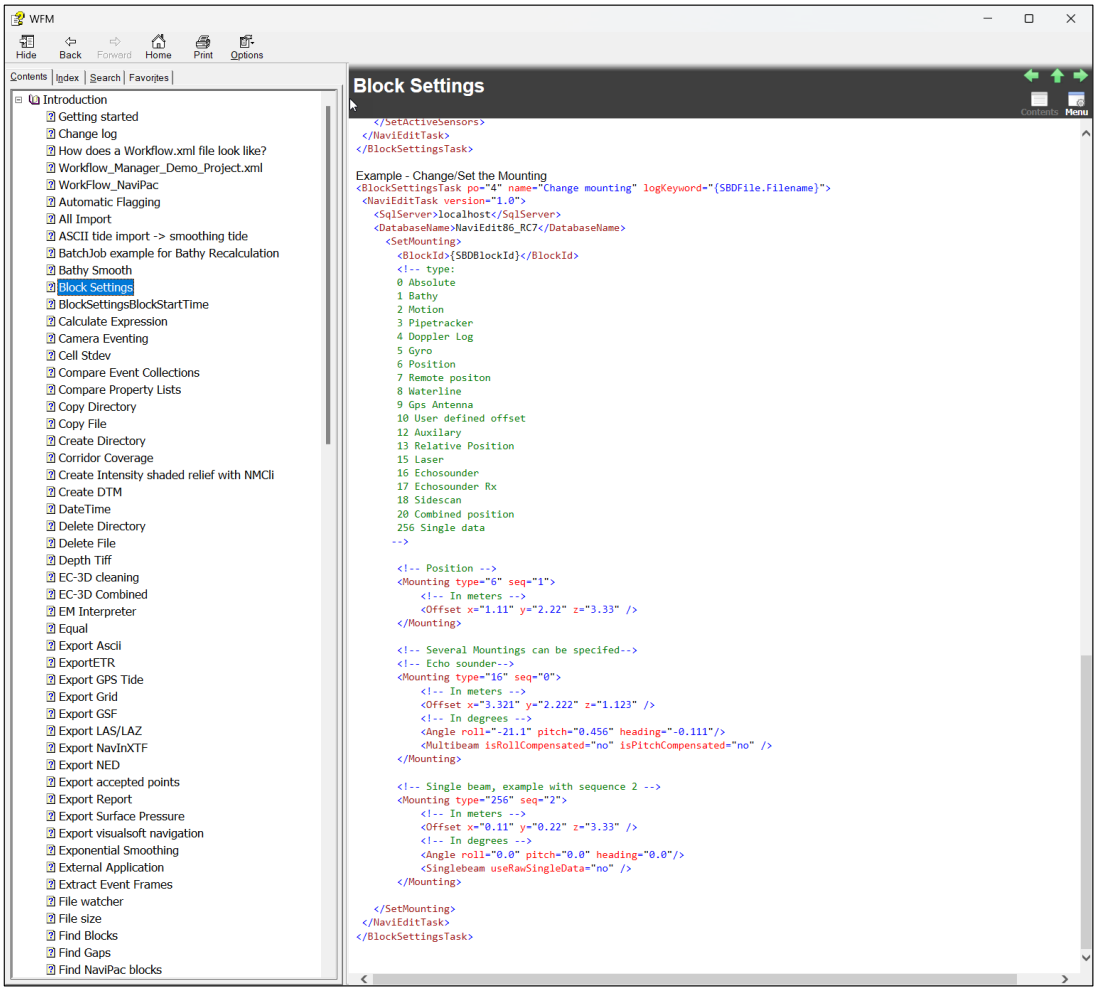
- **XYZ Angle export** no longer fails if all beams in a scan are deleted
- Fixed the time in the **GNSS Tide export** (was being exported as UTC, now as local time)

1.5 Workflow Manager improvements

- Added the option not to import and link the **GPSTide** by adding two new attributes, **importGPSTide** and **linkGPSTide**

- Added the option to export a GSF file

- Added **SetMounting** to the **BlockSettings** task



2 Release notes NaviEdit 8.8

These are the release notes for NaviEdit 8.8.

NaviEdit 8.8 is a major release and remains backwards compatible with previous versions of NaviEdit.

2.1 Formatting conventions

Items formatted in **bold** are properties, buttons, or other elements in the NaviEdit software.

2.2 Database version

NaviEdit can connect to either SQL Server 2008 R2, SQL Server 2012, SQL Server 2014, SQL Server 2016, SQL Server 2017, SQL Server 2019 and SQL Server 2022.

The Microsoft SQL Server included in this NaviEdit installer is SQL Server 2019 Express. This SQL Server requires Windows 10 64-bit.

You can still install NaviEdit on a Windows 7 computer if you download the free SQL Server 2012 Express version or connect to an SQL Server on another computer. If you want to install NaviEdit on a Windows 7 computer, select the **Don't install the SQL Server on this computer** option during installation.

This version includes a minor bugfix upgrade to the NaviEdit database version 8.0.4.1. This is backward compatible with version 8.0.4.0. See details on https://www.eiva.com/compatibility-matrix for compatibility or find it via the EIVA Download Site under **Utility**.

2.3 New features

- Added an option to adjust the multibeam beam forming.
  The adjustment is done based on the sound velocity difference between the sound velocity registered at each scan and the sound velocity measured at the sound velocity probe.
  This function is intended for Kongsberg .ALL or .KMALL files where the SIS operator has used the profile sound velocity or a fixed sound velocity for the beam forming instead of the probe sound velocity measured at the MBE head.

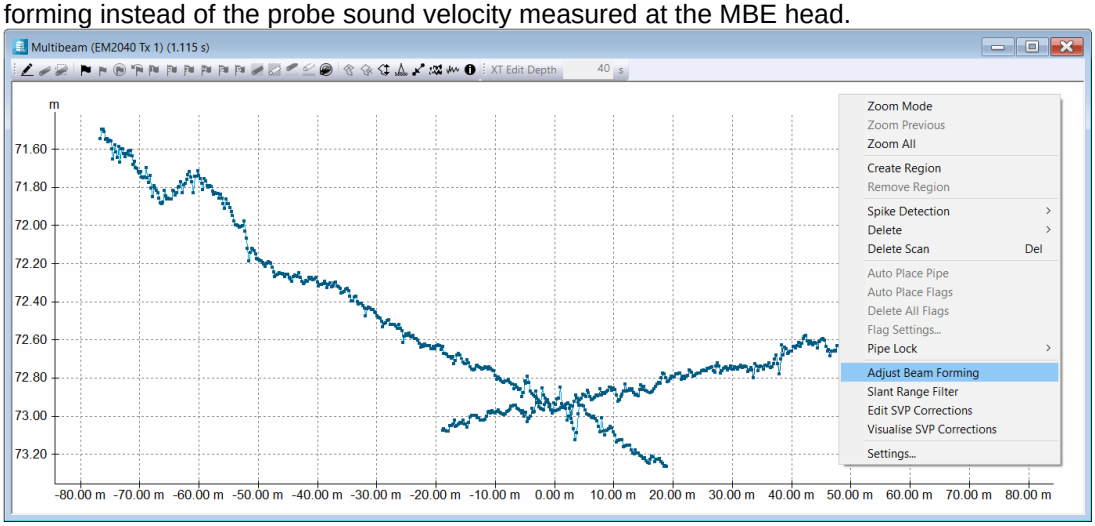


Figure 2 Adjust Beam Forming option

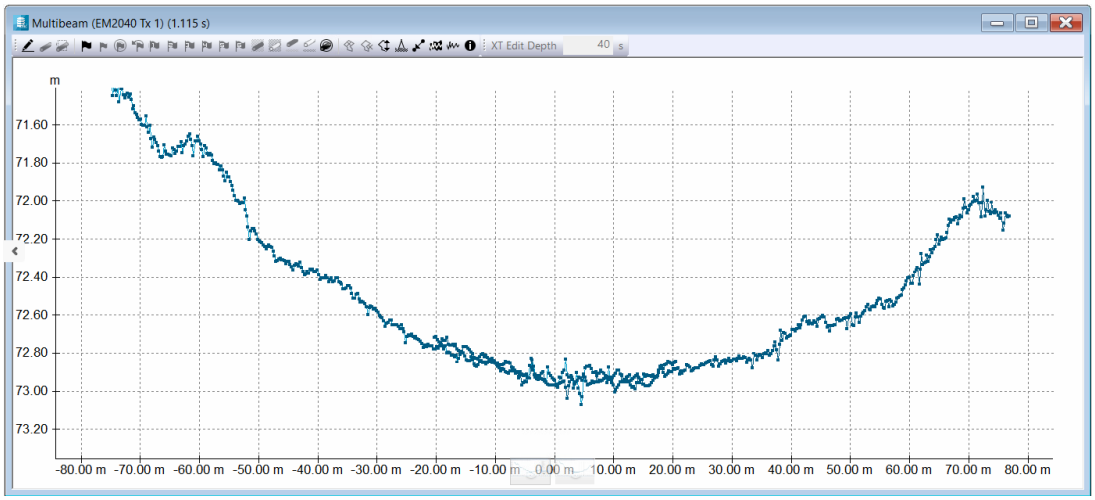


Figure 3 Result of Adjust Beam Forming

- When importing SBD files, a SVP or CTD profile used in NaviScan will also be imported and linked
- Added a new gradiometer exporter intended to export magnetometer data logged with the Subvision GMA1000 gradiometer
- GSF export – added export of sidescan data if available in the .KMALL file.
- Added **Apply Shift Height** option to apply the height component of a datum shift on the GPS antenna height when merge-importing
- Allow using the supplied (by file path and name) Nadcon file in an SBD file for applying a datum shift during import in NaviEdit
- Added a Navlab Calendar format importer
- During import of Kongsberg ALL and KMALL files, the sound velocity measured at the Tx MBE head is also imported as a single beam channel
- When installing NaviEdit the LocalSQLServer and JPAdmin are now created as System data source names and not as User data source names
- Added a position verification report
- Added an option to update the duration to automatically make data look better in the DataEditor without manually adjusting the min and max values of the axis
- Added the MBE frequency to the DataEditor scan view info view (the information icon)
- Allow deselection of Laser / Lidar data in the HeaderEditor
- Include **Skip scans without motion** in the import wizard

2.4 Bug fixes

- GSF import – also import the backscatter intensity if present
- GSF export – fixed an issue where the roll values accompanying the MBE data were wrong
- GSF export – fixed an issue where the depths could be truncated to whole meters

- GSF export – corrected the exported intensity
- SBD import – Don't import zero value bathy values for Free Altimeter & Acquisition types
- **Avoid the Select Datum Shift (merge)** dialog is showing *None* datum shift when Helmert 7 parameters is actually selected when datum name is longer than 60 chars.
- Write the geodesy in report when merging importing
- When importing Kongsberg .ALL files, only import 0 value bathy (which should be recalculated)
- Fixed an issue where the application of squat could fail if the average window was longer that the block duration
- LAS import – Don't convert to local time during import
- Fixing an issue with the CreatePipeTracker stored procedure
- Don't calculate Bathy by GPS Height if no heave values exist for the relevant time (heave value 0 was used before this fix giving possible spikes at end of file for Kongsberg files which does not ensure valid motion values)
- Fixed an issue where the CTD import failed if small negative pressure values existed in mixed order
- Fixed an issue with the Mercator projection when converting from easting northing to latitude and longitude.

2.5 Workflow Manager improvements

- Added import of LAS/LAZ files
  Note: The LAS file should have a header for each new scan to get a unique time after import. Also, the imported positions are just dummy positions to be able to visualize the LAS file. The intended use for this import is to do a **Merge scans from other block** to copy the LAS data to another survey block where valid navigation exists.
- Added import of (Reson) S7K files
- Added support for the GetKPValue task
- Added support for the offset block start time task
- Added an extra includeSubFolders attribute to the WFM FindBlocks task

3 Known limitations

There are no known major limitations to this release.