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## History of the program *NTv2Tools*

Changes and Supplements of the last five years

### Tools for developing and processing of NTv2 files in Binary and ASCII Formats

Detailed Information about the program NTv2Tools: [https://www.killetsoft.de/p\\_ntta\\_e.htm](https://www.killetsoft.de/p_ntta_e.htm)

Translation of this history to other languages: <https://translate.google.com/>

#### 01.01.2021: Program release NTv2Tools 4.00

##### Changes and Supplements during the version NTv2Tools 4.xx:

- 4.04: Automatic language detection at the first program call adjusted.
- 4.03: Increased stability and speed with a new development system.
- 4.03: Delivered with new Dynamic Link Libraries (DLLs).
- 4.02: Error handling improved.
- 4.01: Wrong display of shift directions corrected.
- 4.00: New version number at change of the year.

#### 01.01.2020: Program release NTv2Tools 3.00

##### Changes and Supplements during the version NTv2Tools 3.xx:

- 3.04: Visualization of NTv2 shift ranges and shift directions improved.
- 3.03: Several info files replaced by links in README.PDF and LIESMICH.PDF.
- 3.03: English language help file and README.PDF reworked.
- 3.03: German language help file and LIESMICH.PDF reworked.
- 3.02: Program interface is also available in Slovenian language.
- 3.01: Incorrect links to pages on the KilletSoft Internet site corrected.
- 3.00: New version number at change of the year.

#### 01.01.2019: Program release NTv2Tools 2.00

##### Changes and Supplements during the version NTv2Tools 2.xx:

- 2.01: The online program history can be called in the "Help" menu.
- 2.00: New version number at change of the year.

#### 17.05.2018: Program release NTv2Tools 1.00

##### Changes and Supplements during the version NTv2Tools 1.xx:

- 1.14: Texts in the message windows are displayed in full length.
- 1.14: Countdown of presentation time in the message windows.
- 1.13: Improvements in the underlying GeoDLL.
- 1.12: Terms related to NTv2 files have been unified.
- 1.11: When presenting the shiftwides, the legend is displayed first.
- 1.10: Number of grid meshes displayed correctly after language change.
- 1.09: New chapters about exporting and importing NTv2 grids in the electronic manual.
- 1.09: Chapter "General program description" in the electronic manual revised and supplemented.
- 1.08: New module to import an NTv2 grid from a NTv2 file.
- 1.07: New module to export an NTv2 grid to a new NTv2 file.
- 1.06: New buttons "Gauss" and "Helmert" link to KilletSoft worksheets on the Internet.
- 1.05: New module to analyze shift ranges and shift directions of all grids of an NTv2 file.
- 1.05: New chapter about analyzing shift ranges and shift directions in the help file manual.
- 1.04: Error fixed, when converting from ASCII to Binary on NTv2 files with multiple grids.
- 1.03: Publication of a working paper at [https://www.killetsoft.de/t\\_1807\\_e.htm](https://www.killetsoft.de/t_1807_e.htm).
- 1.03: Help file manual revised.
- 1.02: Number of effective grid meshes in polygonal areas of effect is calculated correctly.
- 1.02: Grids with polygonal areas of effect are displayed correctly.

1.01: English and German manual extended.

1.00: First edition tested.

**Outlook:**

Who can translate the language files used by the program NTv2Tools for the user interface into another language?  
Please report!

**Hint:**

The author would be happy to receive information and suggestions from users for further development of future versions of the program. Please send your experiences and suggestions to:

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