

Inptools Manual

Steffen Macke

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General

1. Introduction

Inptools provides functionality to process EPANET INP files in various ways.

Inptools is available from epanet.de/inptools.

This manual describes *Inptools* version 1.0.1.

1.1. What's New?

A summary of changes.

1.1.1. Version 1.0.1

- Fixed bug in CSV file generation: Link CSV file was named "node.csv" by default.

1.1.2. Version 1.0.0

- EPANET 2.0.0.12 along with the documentation were added to the Windows installer.
- The Windows version requires Windows 7 or higher.
- Improved Windows explorer integration. Double click on *.net and *.inp files opens them in epanet2w.

1.1.3. Version 0.2.2

- The inp2shp tool was added.

1.1.4. Version 0.2.0

- New functions have been added to the Windows Explorer context menu: "Create CSV file", "Create binary result file", "Help"

The epanet2csv tool was added.

1.1.5. Version 0.1.0

- The first public release.

2. Requirements

Linux or Windows (7 or higher) are required in order to use the *Inptools*.

Inptools 0.2.3 is the last version that supports earlier Windows versions.

3. Installation

How to install *Inptools*.

3.1. Windows Installation

How to install *Inptools* on Windows.

Download the installer from epanet.de/inptools and execute it.

3.2. Linux Installation

How to install *Inptools* on computers running the Linux operating system

Download the RPM package from epanet.de/inptools and install it.

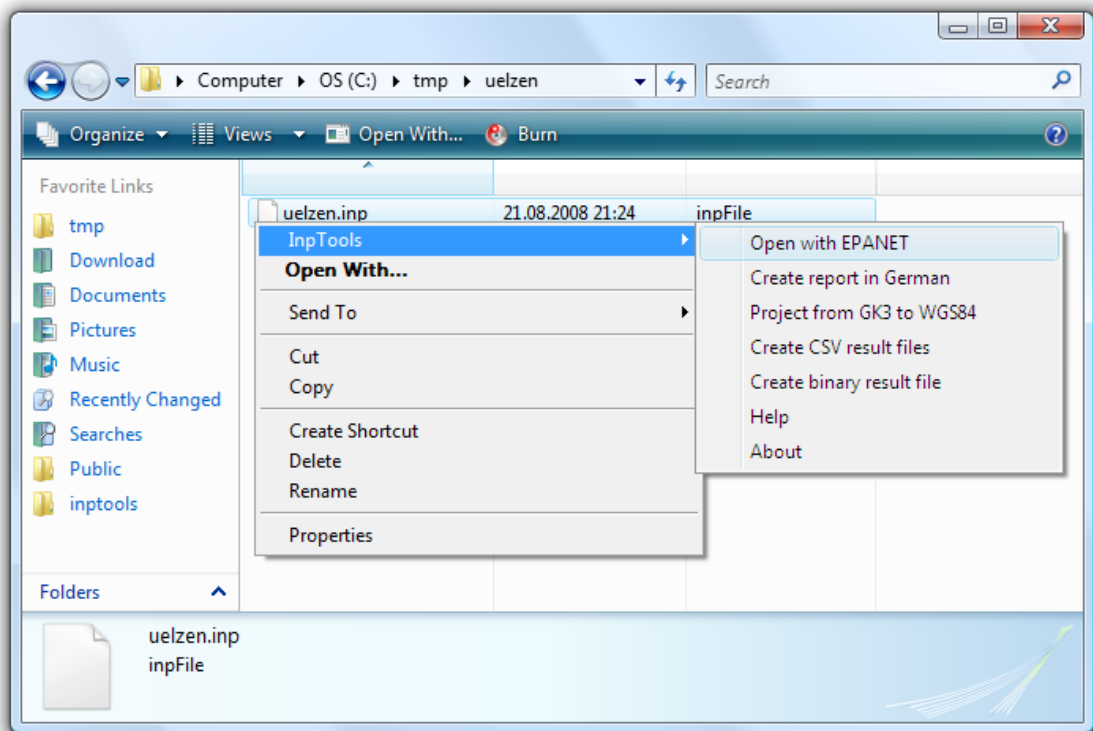
Reference

1. Usage

Inptools can be used in Windows Explorer or from the commandline.

Inptools adds a context menu to Windows Explorer that can be activated by right-clicking on *.inp files.

1.1. Windows Explorer Integration



Windows Explorer Integration

To access Inptools, do the following: Open Windows Explorer.

Navigate to an INP files.

Right-click on the INP file.

Select the Inptools menu.

1.1.1. Open INP file with EPANET

Chosen Inptools->Open with EPANET will open the selected INP file in **epanet2w** for interactive editing.

This option is only available if EPANET is installed.

1.1.2. Create report in German

Choosing Inptools->Create report in German will create a hydraulic analysis report in German language from the selected INP file.

1.1.3. Project from GK3 to WGS84

Choosing Inptools->Project from GK3 to WGS84 will convert (projects) the selected INP file with Gauß-Krüger coordinates (GK3) into a new INP file with geographic (WGS84) coordinates.

1.1.4. Create CSV result files

Choosing Inptools->Create CSV result files will create two CSV files with hydraulic analysis results. One file will contain node results and the other will contain link results. When generating CSV files, make sure that you use different file names for nodes and links.

1.1.5. Create binary result file

Choosing Inptools->Create binary result file will create a hydraulic analysis report along with a binary result file. This file can be further processed e.g. with the commandline tool **epanet2csv**.

1.2. Commandline Usage

The inptools package contains several commandline tools.

Note

The use of the commandline tools is optional for Windows users. If you are not familiar with commandline interfaces, please stick to the Windows Explorer context menu (Section 1.1, “Windows Explorer Integration”).

1.2.1. inp2shp

The inp2shp command converts an INP file into a set of shapefiles.

1.2.1.1. Synopsis

```
inp2shp infile reportfile junction_shapefile pipe_shapefile pump_shapefile rese
```

1.2.2. inproj

The inproj command converts (projects) an INP file with Gauß-Krüger coordinates (GK3) into a new INP file with geographic (WGS84) coordinates.

1.2.2.1. Synopsis

```
inproj inputfile outputfile
```

1.2.3. epanet2l

epanet2l is a modified (localized) version of **epanet2d** that allows to generate report files in German.

The LANG environment variable can be used to determine in which language command should operate.

1.2.3.1. Synopsis

```
epanet2l infile reportfile [binaryresultfile]
```

1.2.4. epanet2csv

`epanet2csv` converts an EPANET binary result file into two CSV files. CSV files can be read by spreadsheet software like OpenOffice Calc or Excel, relational database software like PostgreSQL or MySQL and GIS software.

1.2.4.1. Synopsis

```
epanet2csv binaryresultfile nodes.csv links.csv
```

2. Troubleshooting and Support

Please report any problems through the `epanet.de` support form:

<http://epanet.de/en/support.php>

3. Development

Most of the source code is plain C and should compile with virtually any C compiler.

The C++ code can be compiled using MinGW.

3.1. Release Process

Update the version number in `configure.in`, `installer/win32/inptools-setup.nsi`, `doc/de/inptools.xml`, the MSVC project and `doc/en/inptools.xml`.

3.2. Coding style

K&R style with 8 character indents shall be used to format the code. The `indent` command can be used to format the code:

```
indent -kr -i8 epanet2csv.c
```

4. License

Inptools - Tools to work with EPANET INP files.

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4.1. Shapelib License

The `inp2shp` and `shp2inp` commands use shapelib under the terms of the LGPL.

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4.2. PROJ.4 License

The `inproj` command use the PROJ.4 cartographic projections library.

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4.3. Gettext License

Several `Inptools` commands use `gettext` under the terms of the LGPL.

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