



GVE 3.5.15

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GVE 3.5.12 (Jan 2009)

New feature: Consideration of WIBU CodeMeter dongle
Patch: Import of empty files
Known problem: LAS Format, Export with Limits, Multiplication Factors

GVE 3.5.11

Patch: GVE crashes when using function Line edit - Inline
New feature: the maximum number of marked points was increased to 99999 (GVE vers. < 3.5.11: 9999)
New feature: added batch operations

GVE 3.5.10 (July 2007)

New feature: Definition of max. displayed point number
New feature: Thinout of line points
New feature: new Batch operations added
New feature: Remove double points in lines
New feature: Snapping of points to lines
New feature: Definition of user-defined extensions to input formats
Patch: correct handling of *.twf files for non-quadratic pixels
Patch: Drawing-point-sequence corresponds to read in files

GVE 3.5.9 (July 2006)

New feature: Filter / Thinout
New feature: Profile/Window
New feature: New window size 1600x1145 was added
Patch: program crash when all data has the same height - fixed
Patch: Points moved to DIGIT or NEWDATA were not written to file - fixed
Patch: Profile/Window: Drawing of window was incorrect - fixed
Patch: Crash, Memory overflow

GVE 3.5.8 (March 2006)

New feature: Support of new file formats
New feature: Support of new Winput codes
New feature: File/layer structure
New feature: Filter operations
New feature: LAS data
Patch: Import DXF and import rotated TIFF
Patch: File names including blanks
Known Problem: Moving data into a new file

GVE 3.5.7 (June 2005)

New feature: Net license



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GVE 3.5.6 (October 2004)

New feature: Import / Export of binary formats

Information: DXF layers including blanks

Change: Improvements for profile display

GVE 3.5.5 (December 2003)

New feature: Reduction of point density

New feature: Layer import/export DXF

Information: Data export to format DA001

Patch: Umlauts in file names

Patch: Dialog window in Perspect and Zcolor mode

Patch: DXF import

GVE 3.5.3 (April 2003)

New feature: Profile

GVE 3.5.2 (April 2003)

New feature: Choice of presentation

New feature: Change backup file name

GVE 3.5.1 (April 2002)

New feature: Point edit



GVE 3.5.15

This is a new PATCH for the GVE main setup 3.5.1. A Hardlock license update is not necessary. Please install only the PATCH setup.
GVE 3.5.13 and GVE 3.5.14 were internal versions.

Change: licensing

The dongle search order changed:

1. WIBU CodeMeter local key
2. WIBU CodeMeter server key
3. Aladdin Hardlock local key
4. Aladdin Hardlock network key

Patch: DXF – combine lines

Fixed: combining two lines lying in different layers was possible, but the new line segment was not stored in the saved file.

GVE 3.5.12 (Jan 2009)

This is a new PATCH for the GVE main setup 3.5.1. A Hardlock license update is not necessary. Please install only the PATCH setup.

New feature: Consideration of WIBU CodeMeter dongle

The GVE license can be used with an Aladdin Hardlock or WIBU CodeMeter.

Please note: The search order is:

1. Aladdin Hardlock local key
2. Aladdin Hardlock network key
3. WIBU CodeMeter local key
4. WIBU CodeMeter server key

If you have only a WIBU CodeMeter, you can define an environment variable:
HL_SERACH=ABC to fasten the dongle request.

For more informations about WIBU CodeMeter please see the ApplicationsMaster Installation Manual.

Patch: Import of empty files

In version 3.5.11 it was not possible to import an empty file. Now it is possible to read in empty files again.



Known problem: LAS Format, Export with Limits, Multiplication Factors

Exporting a LAS file, the defined data limits for export will be ignored. Defined multiplication/ addition – factors will not be considered.

GVE 3.5.11

This is a new PATCH for the GVE main setup 3.5.1. A Hardlock license update is not necessary. Please install only the PATCH setup.

Patch: GVE crashes when using function Line edit - Inline

The Inline function is re-usable.

New feature: the maximum number of marked points was increased to 99999 (GVE vers. < 3.5.11: 9999)

New feature: added batch operations

A new runtime option –Sx was added, please refer to the GVE manual.

GVE 3.5.10 (July 2007)

This is a new PATCH for the GVE main setup 3.5.1. A Hardlock license update is not necessary. Please install only the PATCH setup.

New feature: Definition of max. displayed point number

The maximum point number displayed on the main window can now be defined in the default file (default file name: C:\Programme\Inpho\GVE 3.5\bin\DEFAULT).

New feature: Thinout of line points

The possibility to thinout line points was added.

New feature: new Batch operations added

Some runtime options are added (please refer the user manual under Runtime options / Laufzeitoptionen).

New feature: Remove double points in lines

The function 'Remove double points' processes also line points and connects lines.



New feature: Snapping of points to lines

Points or line points lying near (max. 10 pixels) to a neighbored line are connected to this line using snap mode.

New feature: Definition of user-defined extensions to input formats

In the GVE DEFAULT file (default file name: C:\Programme\Inpho\GVE 3.5\bin\DEFAULT), it is now possible to assign file extensions to default formats (please refer the user manual under other file extensions / Andere Dateierweiterungen)

E.g. : EXT0=.ascxyz .xyz - it means that files with extension ascxyz are read as xyz files.
10 different user extensions are definable.

Patch: correct handling of *.tfw files for non-quadratic pixels

If non-quadratic pixels are defined, GVE display them correctly. In previous version, GVE could handle only quadratic pixels.

Patch: Drawing-point-sequence corresponds to read in files

E.g.: reading in two files, point color for first input file=red, point color for second input file=green, identical points in an overlap area are drawn with green color.

GVE 3.5.9 (July 2006)

This is a new PATCH for the GVE main setup 3.5.1. A Hardlock license update is not necessary. Please install only the PATCH setup.

New feature: Filter / Thinout

Points for Filter and Thinout may be delimited by rectangle or polygon.

New feature: Profile/Window

Different possibilities to visualize the profile window in the data have been added:
The window can be shown as a single line or as a double line. Defining a new profile window, the old one can be deleted or not.

These settings have to be defined in the file DEFAULT (program directory) with parameter PROWIDOP.

File DEFAULT:

...



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REM PROFILEWINDOW, 0=SINGLE LINE, 1=DOUBLE LINE, +2=DRAW OLDER
WINDOWS
PROWIDOP=3
...

New feature: New window size 1600x1145 was added

Patch: program crash when all data has the same height - fixed

Patch: Points moved to DIGIT or NEWDATA were not written to file - fixed

Patch: Profile/Window: Drawing of window was incorrect - fixed

Patch: Crash, Memory overflow

Selecting points with the mouse inside the profile window under mode window could cause a memory overflow. This problem is solved.

GVE 3.5.8 (March 2006)

This is a new PATCH for the GVE main setup 3.5.1.

Caution:

This version needs 32 bytes/point, whereas earlier versions needed only 24 bytes/point.

New feature: Support of new file formats

Three new file formats are supported:

DTM (*.dtm) – SCOP DTM
LAS (*.las) – binary lidar data
XYZC (*.xyzc) – XYZ with additional info (C=class)

New feature: Support of new Winput codes

We have added some new Winput codes:

Code **12** for DTM grid points
Code **15** for Alignment (line)



Code **16** for Cross_Sections (line)
Code **32** for Spotheight low
Code **68** for outer borderline
Code **69** for inner borderline

New feature: File/layer structure

Previous versions are working only with file structures. Now, if there exist layers in a file, you can edit in layers.

New feature: Filter operations

With the filter operations it is possible to filter the data inside a given limit window (Menu Edit, Filter). The following operations are offered:

- Filtering blunders (positive and negative)
- Filtering buildings
- Filtering vegetation
- Filtering of model discrepancies

New feature: LAS data

For data in format LAS it is possible to visualize the different pulses, intensity and scan angles in different colors in menu Z coloring.

Patch: Import DXF and import rotated TIFF

The problem importing DXF and rotated TIFF is fixed.

Patch: File names including blanks

File names including blanks are now supported.

Known Problem: Moving data into a new file

After moving data into a new file or into file DIGIT, the program do not store this data using separated save. This problem will be fixed soon.



GVE 3.5.7 (June 2005)

New feature: Net license

The GVE works with Hardlock net license now.

GVE 3.5.6 (October 2004)

New feature: Import / Export of binary formats

Binary XYZ and binary WINPUT formats are supported now.

Information: DXF layers including blanks

DXF layer names including blanks can be defined in the gvedxf.tab file within quotation.

Change: Improvements for profile display



GVE 3.5.5 (December 2003)

New feature: Reduction of point density

If the point density is too high for a certain application, it may be thinned out. Two parameters can be set:

XY distance : a point is not deleted, if the distance to the nearest point is larger than this value

Z distance : a point is not deleted, if the difference between the height of the point and the height interpolated from its neighbours is larger than this value

Line points and points without height (code 70) are not deleted.

New feature: Layer import/export DXF

To read/write DXF files, a translation table for layer names versus winput codes is used. This may be read in from file gvedxf.tab. Editing the data, the original layer names will be displayed and can be changed. (For technical reasons the display of the layers has a bad position). GVE saves now the layer names. For exporting the data, the original layers will be used, even if the data have been converted into the same winput code. (E.g. Layer curb_top was imported as code 50, layer curb_below as code 50 too, after editing the data will be stored in the layers curb_top and curb_below).

Information: Data export to format DA001

The format definition of DA001 allows 9999 lines. If more lines are in the data set, these lines will be automatically written into a new file.

Patch: Umlauts in file names

Umlauts are shown correctly now.

Patch: Dialog window in Perspect and Zcolor mode

The dialog windows in Perspect and Zcolor mode are not longer overwritten.

Patch: DXF import

The DXF import is over-worked.



GVE 3.5.3 (April 2003)

New feature: Profile

Window to show all point in a rectangle in the profile window. In the profile window, it is possible to select points inside a digitized polygon for reclassification or for deleting.

GVE 3.5.2 (April 2003)

New feature: Choice of presentation

It is possible now to choose the presentation for overview window.

New feature: Change backup file name

The backup file name will be changed if there are necessary several savings during one run.

GVE 3.5.1 (April 2002)

New feature: Point edit

Improved text input.

Should you have any questions regarding the technical details of software, please contact your Support Team at support@inpho.de.