



Support Bulletin

Trimble Penmap Product Family - DWG/DXF file export

GEOSPATIAL

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The following support bulletin explains what kind of DWG/DXF file exports could be performed with the Penmap Product Family.

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Definitions

Penmap Product Family

The Penmap Product Family contains the following software packages:

- Penmap for Android
- Penmap for Windows
- Penmap Project Manager (including Penmap Cloud Converters)

Penmap Template

The Penmap Template defines layers, styles, symbols and GIS schema which should be used in a Penmap project.

The template definition is a key element for the DWG/DXF export. A Penmap template could be created with Penmap for Windows or with the Penmap Project Manager.

Important: The Penmap Project Manager **can not** create Penmap templates with symbol support. If symbols are needed, use Penmap for Windows version 10 for the template creation.

Point Styles and Symbols

The Featuretype **Point** may have different types of **graphic elements in Penmap for Windows**

Add Feature

Feature name: Cross Code: Page: Others

Feature type: Point GIS: [None]

Graphic element: Point Layer: Cross

Style: Cross

RedCross

UNV Export rules Save Cancel

Edit Layers Styles Groups

Layers Point Styles Text Styles Line Styles Area Styles Groups

Name: Cross

Edit Name [External ID]

Point colour: [Black]

Point style: RedCross

Symbol colour: [Black]

Symbol name: Default

Width: 1.000 Height: 1.000 Rotation: 0.000

☐ Draw Using Layers

Add Copy Delete [Green Checkmark] [Red X]

Point and Point Styles

The graphic element Point uses the defined Point Style e.g. Cross. The Point Style name is shown below the Style. Point styles are not exportable to AutoCAD.

Add Feature

Feature name: Code: Page:

Feature type: GIS:

Graphic element: Layer:

Style:

☒ Adjust after place

Symbol name:

Edit Layers Styles Groups

Layers Point Styles Text Styles Line Styles Area Styles Groups

Name:

Point colour:

Point style:

Symbol colour:

Symbol name:

Width: Height: Rotation:

☐ Draw Using Layers

Symbol 1pt

The graphic element Symbol uses the defined Symbols.

Symbol 1pt is a symbol with 1 anchor node, which only needs one measurement to define the position.

Symbols are exported to AutoCAD as a BLOCK with the Symbol name.

Symbol 2pt

The graphic element Symbol uses the defined Symbols. Symbol 2 pt is a symbol with 2 anchors. First measurement defines the position and a second one the scaling. Symbols are exported to AutoCAD as a BLOCK with the Symbol name

Export capabilities

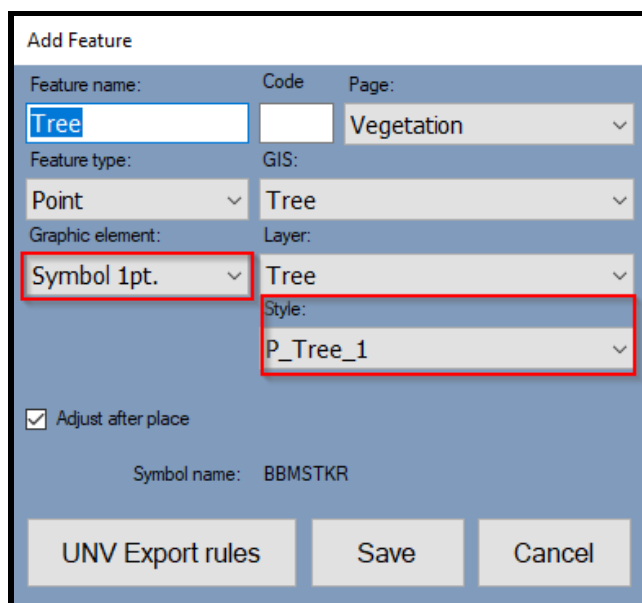
Penmap for Windows version 10.x and higher

Penmap for Windows can export the following things:

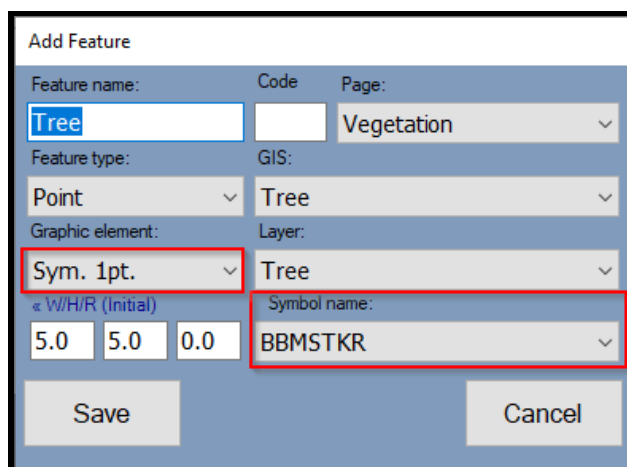
- Points (Nodes)
- Lines
- Polylines
- Symbols
- Point Numbers
- Point Codes

Symbol definition

A Symbol needs to be defined in the *.sdn file of the template. In the iFeature definition the Graphic element Symbol 1pt. or Symbol 2pt. must be selected and a Style (Version 11) /Symbol name (Version 10) needs to be selected.



Version 11



Version 10

Find more information about iFeature handling of Penmap for Windows version 11 in the [Trimble Penmap community](https://community.trimble.com).

Important

It is **not** possible to export:

- Labels, labels are temporarily labels in Penmap
- GIS data, cause DXF/DWG is an graphic export. Check Shape export or CSV export.

- Point styles in conjunction with the [graphic element “Point”, point styles](#) are Penmap only usable point symbols

Add Feature		
Feature name:	Code	Page:
Cross		Others
Feature type:	GIS:	
Point	LocationP.	
Graphic element:	Layer:	
Point	Comment	
		Point style:
		RedCross
Save		Cancel

Penmap Project Manager

Penmap Project Manager can export the following things:

- Points (Nodes)
- Lines
- Polylines
- Symbols

Important

- The DWG/DXF export of the Penmap Project Manager is currently in a beta phase.
- Penmap for Android users can also use Penmap for Windows if more DWG/DXF export capabilities are needed.

Creating a Penmap Template for DWG/DXF use

We recommend using Penmap for Windows to create a compatible DWG/DXF template. There are some differences between version 10.x and the latest version 11.x but the general workflow is the same.

Start Penmap for Windows

- Create a project with the template “empty” or “Blank Template”
- Import a reference DWG / DXF which contains our layers and symbols
- Configure the iFeature system
- Save the template

Find more information about iFeature handling of Penmap for Windows version 11 in the [Trimble Penmap community](#).

Requirements for using DXF/DWG blocks as Penmap symbols:

- Reference points from blocks needs to be inside the block
- Penmap is not able to work with hatches, make sure that block don't contain hatches
- Blocks needs to be lines only

Contact

For more information or questions contact the Trimble Penmap community.

<https://community.trimble.com/groups/penmap-for-andriod>

