

# DATA EXCHANGE FORMATS

## ALLPLAN 2022

### IMPORT

GENERAL IMPORT FORMATS	FILE EXTENSION	VERSION, NOTES
DXF, DWG, AutoCAD-data	.dxf, .dwg, .dwt, .dxb	Until version 2022, incl. ACIS support
DGN, MicroStation-data	.dgn	Version 8, version 7
PDF, PDF/A	.pdf	Vector and pixel data
3D-PDF	.pdf	U3D format (ECMA-363 1st edition)
IFC	.ifc, .ifcXML, .ifcZIP	Version 2x3 and version 4
CINEMA 4D	.c4d	Versions 12.5 to 24
SketchUp	.skp	Versions 6 to 2021
OBJ	.obj	Wavefront OBJ
Rhino	.3dm	Versions 1 to 5
STL	.stl	3D-Printer-Format
VRML	.wrl	Version 2
XML	.xml	NOI XML
Hpgl/2 plot files	.plt, .hp, .hpg, .hpl, .prn	

IMPORT FORMATS FOR COORDINATE VALUES, TERRAIN MODEL	FILE EXTENSION	VERSION, NOTES
Coordinate, axis and curve values	.re1, .reb, .re2, .asc, .lin	Including lines with attributes
Terrain model: longitudinal profiles, cross-sections	.lpr, .qpr	
LandXML	.xml	Version 1.0 to 2.0

IMPORT FORMATS FOR CIVIL ENGINEERING	FILE EXTENSION	VERSION, NOTES
FEM Data (Frilo, Scia)	.asf	Plus Infograph, Cubus, mb, Tornow, PCAE (4H-ALFA), Graitec, Autodesk, SCAD
CEDRUS elements	.sin	Cubus finite elements
Bridges and civil engineering modeler	.nkb	

## EXPORT

GENERAL EXPORT FORMATS	FILE EXTENSION	VERSION, NOTES
DXF, DWG – AutoCAD data	.dxf, .dwg	Versions 12 to 2018, incl. ACIS support
DWF – AutoCAD data	.dwf	Versions 6 and 7
DGN – MicroStation data	.dgn	Version 8, Version 7
2PDF, PDF/A	.pdf	Including layers („planes“) from drawing files and layouts
3D-PDF	.pdf	U3D format (ECMA-363 1st edition)
IFC	.ifc, .ifcXML	Versions 2x3, 4
CINEMA 4D	.c4d	Version 12 (can be read in R18)
SketchUp	.skp	Versions 6 to 2020
CPIXML, iTWO	.cpixml	Versions 2.3, 2017
Rhino	.3dm	Version 5
VRML	.wrl	Version 2
Collada	.dae	Versions 1.4.1 and 1.5.0
Google Earth	.kmz	Version 2.1
STL	.stl	3D-Printer-Format
Universal 3D	.u3d	ECMA-363 1st edition format
Hpgl/2 print files	.plt, .hp, .hpg, .hpl, .prn	
SVG	.svg	
3ds Max	.3ds	

EXPORT OF REPORTS	FILE EXTENSION	VERSION, NOTES
Excel	.xlsx	Version 2010
Word	.docx	Version 2010
PDF	.pdf	

EXPORT OF LAYOUT ATTRIBUTES	FILE EXTENSION	VERSION, NOTES
XML	.xml	For EDM connection

## EXPORT

### EXPORT FORMATS FOR COORDINATES, TERRAIN MODEL

	FILE EXTENSION	VERSION, NOTES
Coordinate values, location line values, curve values	.re1, .reb, .re2, .asc, .lin	Including lines with attributes
Terrain model: longitudinal profiles, transverse profiles	.lpr, .qpr	

### EXPORT FORMATS FOR BUILDING PHYSICS, THERMAL INSULATION

	FILE EXTENSION	VERSION, NOTES
„Kern Dämmwerk“	.cdk	

### EXPORT FORMATS FOR CIVIL ENGINEERING

	FILE EXTENSION	VERSION, NOTES
Frilo PLT, SC, GEO	.asc	
CEDRUS elements	.sin	Cubus finite elements
Bending machines	.abs	Version 2
BAMTEC file	.tec	BAMTEC robot
aSa	*.tek	
Soule	*.xml	

## PIXEL FORMATS: IMPORT AND EXPORT

IMPORT AND EXPORT FORMATS: PIXEL FILES	FILE EXTENSION	VERSION, NOTES
JPEG	.jpg, .jff, .jtf	Including geo-referenced information (import)
TIF	.tif	Including geo-referenced information (import and export)
BMP	.bmp	
EPS	.eps	
TGA	.tga	
PCT	.pct	
PCX	.pcx	
PNG	.png	
PSD	.psd	

## WINDOWS INTERFACES

OLE	Integrating or linking Word, Excel, PDF documents
Clipboard	Allplan data, text, bitmaps and so on

## PROGRAMMING INTERFACES

Python	Parametric PythonParts - 3D objects with reinforcement
Visual Scripting	Parametric objects as script from visual code blocks (nodes)
NOI (Nemetschek Object Interface)	Interface for attachment programming for example for AX3000, Add-ons

Current system requirements can be found at [allplan.com/info/sysinfo](https://www.allplan.com/info/sysinfo)

