High Science Simplified℠

HALLIBURTON | Landmark Software & Services

Data Support

Permedia™ 5000.12.0

Geosciences and Reservoir Technologies

December 2016

This document outlines the data formats supported in Permedia™ software version 5000.12.0.

Type	Format	Read / Write
Colors	DecisionSpace color profiles (.cl2 and .clx)	Yes/No
	Petrel Color Bar (.alut)	Yes/No
Images	.ppm, .png, .pgm	Yes/Yes
	.gif, .jpg, .bmp	Yes/No
Maps	ArcInfo Export (*.e00)	Yes/No
	ArcInfo ADF map (.adf)	Yes/No
	ArcInfo ASCII grid (.asc)	Yes/Yes
	Beicip g grid (.g)	Yes/Yes
	Charisma map	Yes/No
	CPS-3 2D regular grid (.grd)	Yes/No
	DSAA ASCII file (.grd)	Yes/No
	EarthVision map (.2grd)	Yes/Yes
	Gocad GSurf (.grs)	Yes/No
	Grass 2D raster map (.gras)	Yes/Yes
	Irap grid (binary)(.gri)	Yes/Yes
	Irap grid (ASCII)(.gri)	Yes/No
	Irap vector (.vec)	Yes/Yes
	Surfer 7.x grid file (.grd)	Yes/No
	Z-Map 2D grid (.dat)	Yes/Yes
Meshes	Gocad SGrid (.sg)	Yes/No
	Eclipse 3D mesh (.ecl .grdecl)	Yes/Yes
	Irap ROFF 3D mesh (.roff)	Yes/No
	Landmark VDB mesh (.vdb)	Yes/No
	PetroMod 8/9 mesh (*.pmt *.pmb)	Yes/No
	Temis mesh (.t4d)	Yes/No

	Temis 2D Template (.ext)	No/Yes
	VIP Corner Point (.inc)	No/Yes
Pointsets	AVF pointset (*.avf)	Yes/No
	Charisma ASCII grid (.gridexp)	Yes/No
	EarthVision pointset (.pdat)	Yes/Yes
	ESRI Shape file (.shp)	Yes/Yes
	Generic 2D regular grid (.xyz)	Yes/Yes
	Gocad VSet file (.mx)	Yes/Yes
	Pinnacle data file (.pvz)	Yes/No
	PRN pointset (.prn)	Yes/No
	Z-Map pointset (.dat)	Yes/No
Polylines	CPS-3 2D lineset (.cps3)	Yes/No
	EarthVision polygon file (.ply)	Yes/Yes
	Gocad PLine file (.pl)	Yes/Yes
	IHF file (.ihf)	Yes/No
	Irap vector (.vec)	Yes/Yes
	PetroMod cultural data (.pmt)	Yes/No
	Photon Systems ascii format v1.0 (.xyz)	Yes/No
	Temis polyline set (.ext)	Yes/No
	Z-Map polyline set (.dat)	Yes/No
Seismic	SEG-Y (post-stack)	Yes/No
Surfaces	Geomatic triangulated surface	Yes/No
	Gocad tsurf (.ts)	Yes/Yes
	Petrel Keypillars fault (.keypillars)	Yes/No
	TrapTester fault texture (.fatm)	Yes/No
Volumes	EarthVision volume (.3grd)	Yes/Yes
	Stanford Exploration Project (.H, .HH)	Yes/Yes
	Geo Statistics library volume (.gsl)	Yes/No
	Gocad Voxet file (.vo)	Yes/Yes
	Gohfer 2D volume (.qlk)	Yes/No
	Irap 3D regular grid (.3dg)	Yes/No
	JavaSeis volume (.js)	Yes/No
	Raw data volume (.raw)	Yes/Yes
	VELF Velocity file (.velf)	Yes/Yes
	VolumeViz LDM file (.ldm)	Yes/No
	VoxelGeo/Geoprobe 8-bit seismic (.vol)	Yes/Yes
Wells	Gocad well	Yes/Yes
	ASC well (.asc)	Yes/No
	Beicip Obdat2 (.obdat2)	Yes/No
	Irap ASCII well	Yes/No
	LAS well (.las)	Yes/Yes
	Temis well (.crv)	Yes/No

OpenWorks® Database Support

Permedia software supports OpenWorks® version 5000.8.3 and later, including 5000.10.3, 5000.10.5, and OpenWorks G1 (Windows only). The OpenWorks client must be installed on your machine.

Read Support

- GDI wells with log curves, picks and trajectory as Wells
- Horizons and GDI grids as Maps
- VDB grids as Meshes
- SeisWorks 3D Seismic as Volumes (OpenWorks 5000.10.1 and later)
- GeoShapers as Linesets and Pointsets
- GeoShells as Surfaces
- Pointsets

Sub-select the data in the data store by district, project, interpreter and well lists. Drag-and-drop OpenWorks data into the viewers, use them as input to simulators, save them as local data objects, and run scripts on them.

Write Support

- Maps
- Volumes (OpenWorks 5000.10.1 and later)
- Well traces
- VDB properties
- Pointsets

Frameworks Support

Permedia software does not read DecisionSpace® frameworks directly. If you have a framework that you want to use, you can do the following:

- Export a VDB grid; VDB grids can be used as meshes, and, for example, to run Reservoir Filling simulations
- Export each of the layers in the framework as GDI grids; these can be used as maps and, for example, used to build a Permedia earth model in Prospector

Calculated VDB properties, such as results from a Reservoir Filling simulation, and maps can then be written back to the OpenWorks database and accessed from DecisionSpace software.

DecisionSpace® Integration Server Support

Permedia software supports DecisionSpace Integration Server. Users can connect to multiple servers simultaneously and read the following OpenWorks data:

- GDI wells with traces, markers and trajectory as Wells
- GDI grids as Maps
- GeoShapers as Linesets and Pointsets
- Pointsets

Google Earth™ Support

Export scenes from Map Viewer or 3D Viewer (maps, volumes, wells, line sets and point sets) to Google Earth™ mapping service-compatible KLM format.

Contact for Further Information

Contact your local Landmark representative or visit the Landmark Software website:

www.landmarksoftware.com