

# High Science Simplified<sup>SM</sup>

HALLIBURTON | Landmark Software & Services

Data Support

Permedia<sup>TM</sup> 5000.12.0  
Geosciences and Reservoir Technologies

June 2017

This document outlines the data formats supported in Permedia<sup>TM</sup> software version 5000.12.0.

Type	Format	Read/Write
<b>Colors</b>	DecisionSpace® color profiles (.cl2 and .clx)	Yes/No
	Petrel® Color Bar (.alut)	Yes/No
<b>Images</b>	.ppm, .png, .pgm	Yes/Yes
	.gif, .jpg, .bmp	Yes/No
<b>Maps</b>	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 <sup>TM</sup> 2D grid (.dat)	Yes/Yes	
<b>Meshes</b>	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 <sup>TM</sup> 8/9 mesh (*.pmt *.pmb)	Yes/No
	Temis <sup>TM</sup> mesh (.t4d)	Yes/No

	Temis 2D Template (.ext)	No/Yes
	VIP Corner Point (.inc)	No/Yes
<b>Pointsets</b>	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
<b>Polylines</b>	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
<b>Seismic</b>	SEG-Y (post-stack)	Yes/No
<b>Surfaces</b>	Geomatic triangulated surface	Yes/No
	Gocad tsurf (.ts)	Yes/Yes
	Petrel Keypillars fault (.keypillars)	Yes/No
	TrapTester® fault texture (.fatm)	Yes/No
<b>Volumes</b>	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
<b>Wells</b>	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 in Permedia software as meshes, which can be used in Reservoir Filling and other simulations
- Export each of the layers in the framework as grids; grids can be used in Permedia software as maps, for rapid assessment workflows, building a structural framework in Prospector, and more

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 version 5000.10.3 and later. 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.

### **▶ Units and coordinate system**

All measurement units in Permedia software are UTM meters. Where possible, Permedia software will detect units in objects and convert them to UTM meters automatically. All objects loaded via OpenWorks projects are converted automatically where needed. If you have pointsets and linesets (e.g., cultural data) with Lat/Long coordinates, in the Permedia main window, right-click the lineset or pointset and choose Convert Lat/Long to UTM to convert them.

### **▶ Contact for Further Information**

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

[www.landmark.solutions](http://www.landmark.solutions)

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