

Using the Geoteric Link for Petrel

Prerequisites

- Geoteric installed
- Petrel installed (Current supported versions are 2017, 2018, 2019 and 2020)
- Valid Geoteric license

The Link for Petrel connects automatically when it detects Petrel is running.

To begin transferring data, click on the links button and select "Connect to Petrel".

	~	
	Condition 💊 Reveal 🔪 🐳 Interpret 庄 Classify 🖉 Validate 🗸	D Links
5	Project Tree	
	Cearch	Connect To Petrel
	SEGY_Ft SEGY [Realized] 1	Master Project

Open the Link for Petrel

This will open the data transfer window:

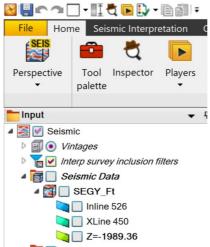
🕄 Petrel Data Transfer		-	- 0	×
Import	Source Volumes			
Volume	SEGV.ft SEGV [Beaked] 1			^
Colour Map	SECV SECV Fetrel Smuthep,Djohzi#1_Dip			
Horizon	Structupp,DipAir#1,Doimath 5607-30,20,Bich 5607-30,20,Ah			
Fault Stick	0(p.35 S05,59 Fault Detect_S05,173			
Fault Surface	detect, 505, 173, target1 detect, 505, 173, target[2] detect, 505, 173, target[3]			
Polygon	detect. SOS, 173, Jarget(4) detect. SOS, 173, Jarget(5) Fault Detect. SOS, 173, Barget(5)			
Well Data	Fault Detect_505,173_target[2] SECY_target SECY_target[2]			
Export	SEGY_Ft_X_ONEAI Network_new_AlFaultConfidence			
Volume	SEGY_EV_CNEAN Network_new_AlFaultConfidence Fault Detect_SOS_173_X_CNEAN Network_new_AlFaultConfidence			~
Colour Map	Petrel Volume			
Horizon	Seismic Collection :			٠
Fault Stick	Data range will be preserved on seport. An offset of +128 is upplied to 8-88 unsigned data.			
Fault Surface	Note: transforming un-coulded volumes to Peter any recult in the Peter Session: Outer being magnetic over the incorrect recult, in three cause, includes before transfer or scan and remap the cable in Peterk. (See Help for more information)			
Polygon	User Defined Scaling			
Colour Blend	Multiply: 1 Divide: 1 Offset: 0.0000			
		Help	Apply	Cancel
		inde	white	contect

Transfer Window

geoteric

Geoteric to Petrel volume transfer

To export a Volume to Petrel, select the "Export" section and the "Volume" button. Select the Volume to be transferred to Petrel by highlighting it from the list of volumes. Select a relevant folder from the drop-down menu for the Seismic Collection and click on the "Apply" button to begin the transfer. Select multiple volumes by holding the Control (Ctrl) key or a block of volumes using the Shift key. Whilst the transfer is in progress; you will see the Geoteric task window showing the transfer. Once the task is complete, the transferred volumes will appear within the Petrel project tree under the Seismic Collection you have specified in the Link for Petrel.



Transferred volumes in the Petrel Project Input Tree

Petrel to Geoteric volume transfer

To import a Volume from Petrel, select the "Import" section and the "Volume" button. In the appropriate Seismic Collection, expand the Petrel project tree and highlight the Petrel volume(s) to be imported to Geoteric. If an imported volume name already exists in Geoteric, the application will automatically add, or increment, a number after the name (e.g. volume[n+1] where n is the volume number already in Geoteric).



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Import	Petrel Volume
Volume	✓
Colour Map	SEGY_Ft
Horizon	
Fault Stick	
Fault Surface	
Polygon	
Well Data	
Export	
Volume	
Colour Map	ffA Volume
Horizon	Import As: Floating Point IEEE
	Scale Options
Fault Stick	Scale Type
Fault Surface	None User Defined Auto Scale Retaining Zero Crossing
Polygon	User Defined Scaling
Colour Blend	Multiply: 1 Divide: 1 Offset: 0.0000
1	

Volume selector for transfer from Petrel to Geoteric

Data type and scaling available

Choose from:

- 8 bit unsigned
- 16 bit signed
- 32 bit signed (DEFAULT)



There is a choice to either automatically cache, or to not automatically cache the volume once it has transferred to Geoteric.

Click on "Apply" to perform the transfer.

Once the transfer is complete, the volume will appear in the Geoteric project within the volumes folder. To visualise it, double click on the volume name.

Geoteric to Petrel colour blend transfer

Choose the Geoteric Colour Blend(s) to be exported to Petrel and choose an appropriate Seismic Collection. Both RGB and CMY Colour Blends are supported. The Geoteric taskbar will appear, and the blend will be available in Petrel where it was specified.

Colour Blends can be exported to Petrel, but not imported from Petrel to Geoteric.



Export to Petrel options available in the Link, including the Colour Blend

Geoteric to Petrel surface transfer

Highlight the appropriate surface(s) in the list and select the interpretation folder you wish the surface to be exported into and click "Apply".





🔋 Petrel Data Transfer

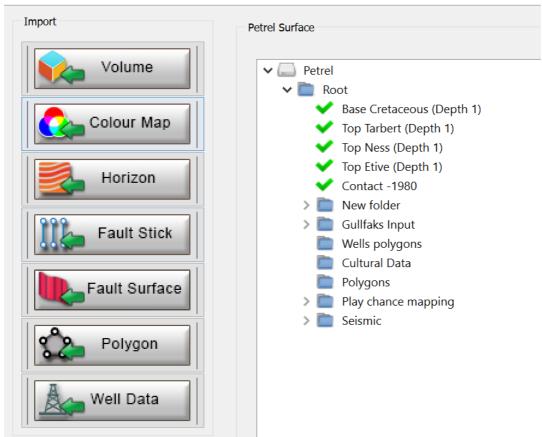
Surfaces selection for transfer from Geoteric to Petrel



Petrel to Geoteric surface transfer

Select the surface(s) you wish to import into Geoteric from the list and click on the "Apply" button. The Geoteric task window will be displayed while the surface is transferred into the Horizons section of the project manager.

Note: Only Petrel gridded surfaces can be imported into Geoteric. If an imported Surface name already exists in Geoteric, the application will automatically add, or increment, a number after the name. (e.g. surface[n+1] where n is the surface number already in Geoteric).



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Surfaces selection for transfer from Petrel to Geoteric

Petrel to Geoteric well transfer

Select the Import Surface tab and select the Well(s) you wish to import into Geoteric from the list and click the "Apply" button. They will now appear in the Wells folder in the Geoteric project tree. Geoteric will automatically apply the checkshot to the well/s if they have one and will do the same with any logs.

It is not possible to transfer wells from Geoteric to Petrel



Geoteric to Petrel colour map transfer

Select the Colour Map you wish to export from the drop-down menu. You can rename this before the transfer if you would like it to appear in Petrel as another name and click "Apply".

Petrel Data Transfer	-	×
Import	Colournap	
Volume	BlueWhiteRed	•
Colour Map		
Horizon	Petrel ColourMap	
Fault Stick	Output Name : BlueWhiteRed	
Fault Surface		
Polygon		
Well Data		
Export		
Volume		
Colour Map		

Colour Map selection for transfer from Geoteric to Petrel

Petrel to Geoteric colour map transfer

This tab will populate with all the available colour maps in Petrel that you can import into Geoteric. You can block select by selecting one and holding down Shift and selecting another, or you can choose individual colour maps using the control button and left-click.



🔋 Petrel Data Transfer

Import	Import ColourMaps
Values	Amplitude extraction (continuous)
Volume	Amplitude extraction (discrete)
	Amplitude marker dark
	Amplitude marker light
Colour Map	AVO
	Black grey white
Horizon	Black white yellow red
	Blue white pink
	Blue white purple
Fault Stick	Blue white red (strong)
	Blue white red dark
	Brown white blue
Fault Surface	Coarse extraction
	Constant velocity stack
	Dual velocity stack
Polygon	Equator
• • • • • • • • • • • • • • • • • • • •	Equator plus
	Green blue brown red
🙈 👝 Well Data	Green white yellow
	Green yellow red
vnort	Hot top
xport	Lightblue white red
	Purple blue green yellow red
Volume	Rainbow
	Red blue green
	Red lightblue
Colour Map	Red white black
	Red white black light Red white blue
Horizon	
	Red white blue (transparent)
	Red white green
Fault Stick	Red yellow green blue
	Residual
	Rotary
Fault Surface	Seismic (default)
	Skin
Pelugan	Spectrum
Polygon	Sunny side up
	Tropic extremes
Colour Blend	Tropic medians
	Velocity (default)

Colour Map selection for transfer from Petrel to Geoteric





Geoteric to Petrel polygons transfer

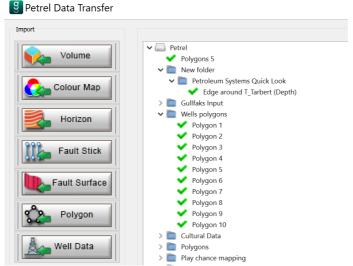
You can export polygons drawn in Geoteric into Petrel using the Link using this tab. Polygons in Geoteric will be listed here. You can block select or select individual polygons to transfer through the Link. They are transferred into a newly created folder in the root of the Petrel survey called "Geoteric Polygons."

AOI		
ZmapLines_ASCII_	Boundary1	

Polygon selection for transfer from Geoteric to Petrel

Petrel to Geoteric polygons transfer

You can import polygons from Petrel to Geoteric on this tab. If you navigate to the location of the Polygon, you wish to import, select the Polygon and click "Apply". A progress bar will quickly appear and disappear on completion of the transfer, and the Polygon will be imported into the Polygons folder in the Geoteric project tree. If the name is the same as an existing polygon, then it will be automatically renamed so that it has a numerical value in square brackets, for example, Polygon[3][1].

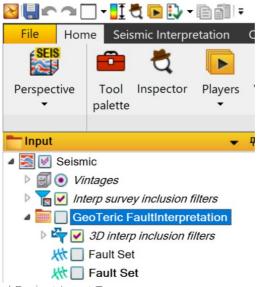


Polygon selection for transfer from Petrel to Geoteric

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Geoteric to Petrel faults transfer

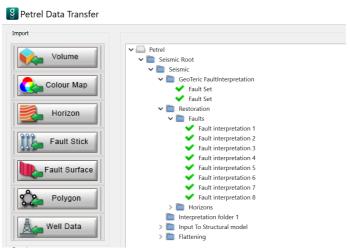
You can export fault sets from the Export Faults. You can block-select or select individual faults to transfer through the Link. They are transferred into a folder called "Geoteric FaultInterpretation" which is created when the transfer begins.



Transferred faults in the Petrel Project Input Tree

Petrel to Geoteric faults transfer

You can import faults from Petrel using this tab. Navigate to the path of the fault you wish to import and then select it (you can multi-select) and click "Apply" to import it into Geoteric. When imported, they appear in the Faults folder in the Geoteric project tree. If the name is the same as an existing fault set, then it will be automatically renamed so that it has a numerical value in square brackets, for example, Fault Set[3][1]



Faults selection for transfer from Petrel to Geoteric