

## SOFTWARE RELEASE NOTES

Version 2021.1.2

PETROSYS PRO



*Connectivity*



*Mapping & Visualisation*



*Surface Modeling*

**Petrosys PRO 2021.1.2** takes connectivity to the next level with the addition of the new ArcGIS Pro add-in.

Building on the strong collection of innovative and improved features in the PRO 2020 series across Connectivity, Mapping and Surface Modeling, Petrosys PRO 2021.1.2 delivers the latest functionality whilst the enhanced development of existing features continues to add value to provide our clients software investment.

### **Next Level Connectivity**

- The key highlight of Petrosys PRO 2021.1.2 is the ArcGIS Pro Add-In with advanced connectivity enabling the direct display of subsurface data directly from E&P software.

### **Licensing updates:**

- PRO 2021.1 requires a new license file to be installed.

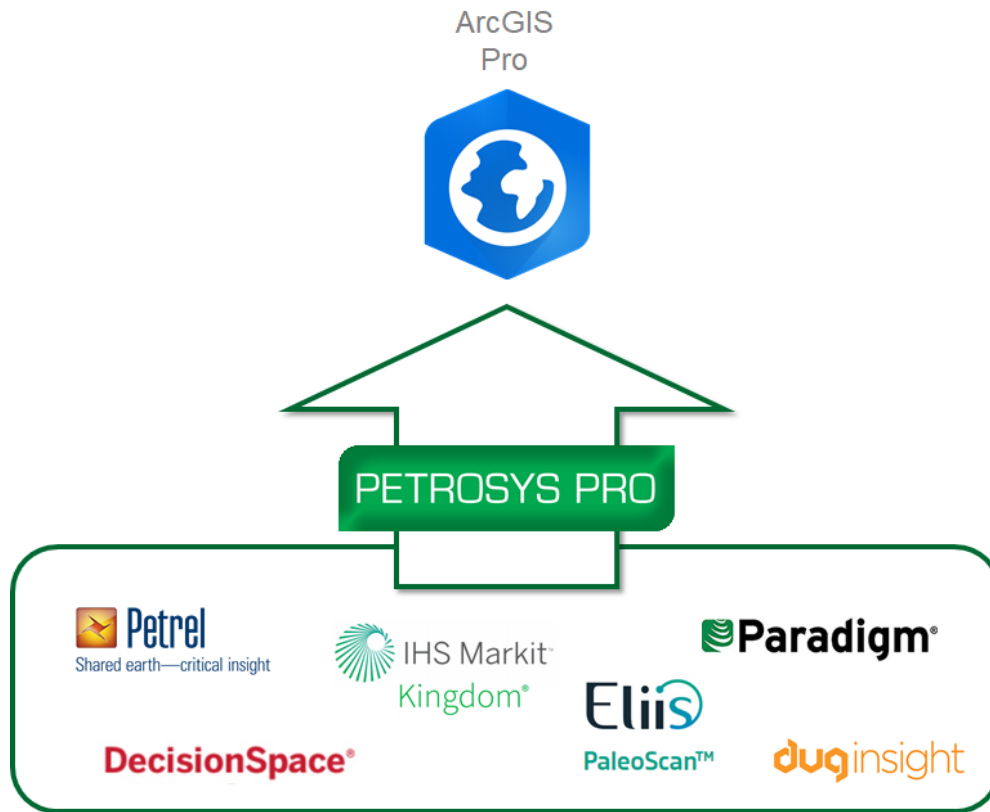
### **Supported Environment updates of note:**

- Linux platforms RHEL7 and RHEL8 are supported, RHEL6 is no longer supported.

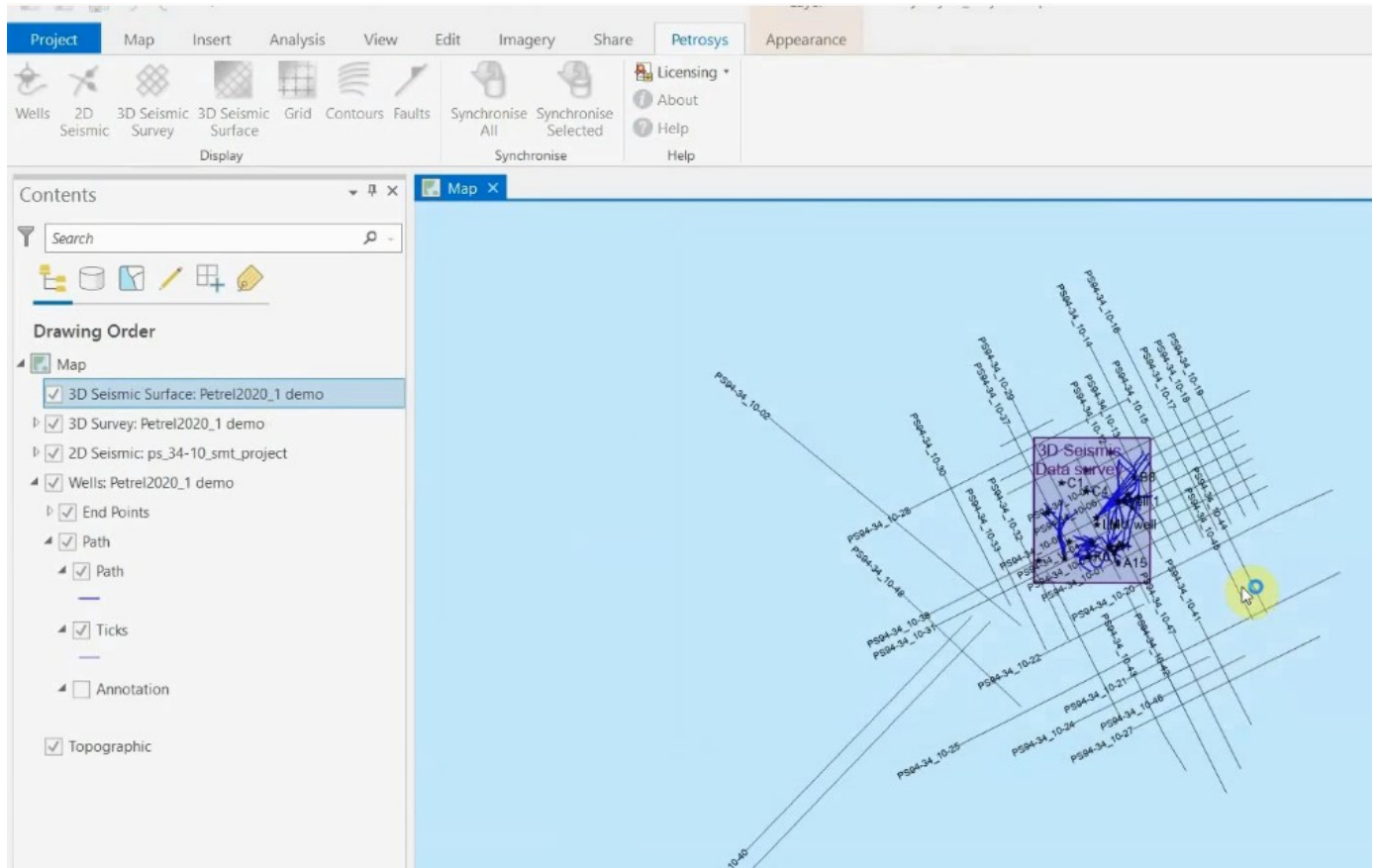
Read on for more details on these options with more to follow in the 2021 stream. For more information on how to put these features into practice please contact support at [support@petrosys.com.au](mailto:support@petrosys.com.au) and learn more from our webinars, video and portal resources.

## ArcGIS Pro Add-In

The new Petrosys add-in allows users to directly display subsurface data inside ArcGIS Pro from their chosen E&P source.



- Display wells, well paths, seismic navigation and surfaces, grids, contours, fault polygons directly within in ArcGIS Pro.
- Connect to subsurface and interpretation data from multiple sources.
- All data source vendors supported in Petrosys PRO are supported in ArcGIS Pro; Petrel, DecisionSpace, Paradigm, IHS Kingdom, SeisWare, etc.



- Control the display style and publish to Portal as part of ArcGIS Pro workflow.
- Use data in different or customised Coordinate Reference Systems.
- Query object names and other attributes.
- Contours are dynamically computed from the selected surfaces and grids. The Faults and contours are displayed along with the grid to generate a geologically accurate relationship.
- Synchronise, update, and finalise your map. Use the synchronisation buttons to update the display when changes have been made within your interpretation system.
- ArcGIS Pro versions 2.5 to 2.8 are supported.

## Notes for Upgraders and Installers of Applications

Upgraders from Petrosys PRO 2020 should be aware of the following changes:

- Support for Red Hat Enterprise Linux 6 (RHEL6) has been ceased.
- Petrosys PRO supports Red Hat Enterprise Linux 7 and 8 (RHEL7 and RHEL8) and equivalents (CentOS, Oracle Linux).
- Petrosys PRO 2021 requires a new license file. Please obtain your license file by logging on to the Petrosys Client Portal or contacting Petrosys Support.

For a full list of supported environments, please see the Petrosys PRO [Supported Environments webpage](#).

## Detailed Release Notes Summary PRO 2021.1.2

### Enhancements

#### *Connections, Import and Export - Esri*

[78609](#) Added ArcGIS portal authentication to ArcGIS Web Services

## Detailed Release Notes Summary PRO 2021.1.2

### Bug Fixes

#### *Application - User Interface*

[79441](#) Improved handling of decimals correctly in locales/regions where the decimal place is not a period character

#### *Connections, Import and Export - Oracle*

[79412](#) PPDM38 - Matches formation selections on formation ID rather than on formation name.

#### *Mapping - GIS, Spatial and Culture*

[79667](#) /Display/Prospects - Polygon maximum size limit of 10,000 points removed

#### *Surface Modeling - Volumetrics*

[73917](#) Volumetrics - Petrel polygons can now be used

## Petrosys Release PRO 2021.1.2

Detailed Release Notes

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### Application - User Interface

### Bug Fixes

#### **Improved handling of decimals correctly in locales/regions where the decimal place is not a period character**

79441

Handling of data fields that expect decimal point values has been improved to work consistently in regions where the decimal point is not the period (.) character, such as Switzerland. Previously in some fields, like annotation distances, it was not possible to enter a decimal value either using a period or a comma. We now support the period character in all these fields for the decimal value.

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### Connections, Import and Export - Esri Enhancements

#### **Added ArcGIS portal authentication to ArcGIS Web Services**

78609

Authentication to an ArcGIS server that is federated with an ArcGIS Enterprise portal is now supported for ArcGIS web services connections.

During authentication the ArcGIS server is queried for the portal it is federated with and then the user is prompted for their credentials by the ArcGIS portal login page within a secure browser. OAuth2 authentication then follows after successful login.

All received tokens are revoked at the end of the session.

To allow Petrosys PRO to use portal authentication, an Esri portal administrator must register Petrosys PRO as a client application. See the help documentation for details, or contact Petrosys support for assistance.

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### Connections, Import and Export - Oracle

### Bug Fixes

#### **PPDM38 - Matches formation selections on formation ID rather than on formation name.**

79412

When a formation selection is loaded, the selected formations are now matched based on the formation ID rather than the formation name. This allows renamed formations to correctly match when map and surface modelling files are opened.

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### Mapping - GIS, Spatial and Culture

### Bug Fixes

#### **/Display/Prospects - Polygon maximum size limit of 10,000 points removed**

79667

For the display of PLDB Polygons in Mapping, a hard limit of 10,000 points per polygon has been removed. There is now no practical limit to the number of points per polygon allowed.

**Volumetrics - Petrel polygons can now be used** 73917

Petrel polygons can now be used in volumetrics calculations.

## Detailed Release Notes Summary PRO 2021.1.1

### Enhancements

#### *Connections, Import and Export - Esri*

[78948](#) Petrosys Arc GIS Pro Add-In supports ArcGIS Pro 2.8

#### *Mapping - GIS, Spatial and Culture*

[79333](#) Performance of the Display/GIS dialog has been improved for sources with a large number of feature classes



## Detailed Release Notes Summary PRO 2021.1.1

### Bug Fixes

#### *Application - ArcGIS Pro Add-In*

[79044](#) Better support multiple versions of Petrosys PRO installed

#### *Configuration - Licensing*

[79397](#) RepriseLM - Fixed crash when timezone not valid for license

#### *Connections, Import and Export - Paradigm-Epos*

[79343](#) A Paradigm connection failure on certain Windows systems has been fixed

#### *Mapping - GIS, Spatial and Culture*

[79275](#) Display/GIS no longer issues incorrect error message for CRSs with custom authority names

#### *Surface Modeling - Contouring*

[79056](#) Contouring application stability improved

#### *Surface Modeling - Exchange*

[79284](#) No duplicated log curve mnemonics appear in log curve list

## Petrosys Release PRO 2021.1.1

Detailed Release Notes

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### Application - ArcGIS Pro Add-In

### Bug Fixes

#### **Better support multiple versions of Petrosys PRO installed** 79044

The Petrosys ArcGIS Pro Add-In has been refactored so more of the components that are supplied by the Petrosys PRO install are loaded from the PRO install location. This better supports situations where more than one Petrosys PRO version is installed, especially in uninstall scenarios.

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### Configuration - Licensing

### Bug Fixes

#### **RepriseLM - Fixed crash when timezone not valid for license** 79397

A crash has been fixed when a timezone error occurred with RepriseLM licensing set.

### [Connections, Import and Export - Esri](#) [Enhancements](#)

#### **Petrosys Arc GIS Pro Add-In supports ArcGIS Pro 2.8** 78948

Petrosys PRO 2021.1.1 adds support for ArcGIS PRO 2.8.

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### Connections, Import and Export - Paradigm-EposBug Fixes

#### **A Paradigm connection failure on certain Windows systems has been fixed**

79343

On some Windows systems the Paradigm connection would fail to start with a DLL error. This has now been fixed.

### [Mapping - GIS, Spatial and Culture](#) [Enhancements](#)

#### **Performance of the Display/GIS dialog has been improved for sources with a large number of feature classes** 79333

The performance of the /Display/GIS.. dialog has been improved for data sources that have a large number (thousands) of feature classes.

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### Mapping - GIS, Spatial and Culture

### Bug Fixes

#### **Display/GIS no longer issues incorrect error message for CRSs with custom authority names** 79275

Petrosys PRO 2020.1 introduced a problem where an incorrect error message was shown from Display/GIS when attempting to use a CRS with an authority code specified that was other than "EPSG".

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## Surface Modeling - Contouring

## Bug Fixes

### **Contouring application stability improved**

79056

A rare crash during contouring of grids has been fixed.

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## Surface Modeling - Exchange

## Bug Fixes

### **No duplicated log curve mnemonics appear in log curve list**

79284

In previous versions in Well Log exchange there could be duplicated well log curve mnemonics appearing in the step of selecting log curves. This has now been fixed.

# Detailed Release Notes Summary PRO 2021.1

## Enhancements

### *Application - ArcGIS Pro Add-In*

[69870](#) Display Petrosys and 3rd party Geoscience data in ArcGIS Pro

### *Application - General*

[76650](#) Red Hat Enterprise Linux 6 no longer supported

### *Application - Printing and Publication*

[42040](#) Export/PDF option in Mapping now has append mode

### *Configuration - Licensing*

[78964](#) New license file required to run Petrosys PRO 2021.1

### *Connections, Import and Export - Interactive Correlations (IC)*

[79204](#) Renamed 'ODM' to 'IC' throughout application

### *Connections, Import and Export - Petrel*

[78993](#) Petrel 2015 no longer supported

[78248](#) Petrel 2021.1 supported

### *Mapping - GIS, Spatial and Culture*

[79130](#) Import of Generic Mapping Tool's CPT colour gradients supported

### *Project Management - Project Selector*

[78265](#) Project selector usernames now use case-insensitive matching

### *Surface Modeling - Gridding*

[79115](#) Option 'model sticks surfaces' was added for fault sticks gridding

[78376](#) Sample density gridding method performance has been improved significantly

### *Surface Modeling - Workflows/Scripting*

[78604](#) Improvements to workflow scripting

# Detailed Release Notes Summary PRO 2021.1

## Bug Fixes

### *Application - Printing and Publication*

[79100](#) Export to PDF - International characters supported in filename and path

### *Application - User Interface*

[78547](#) Embedded browser will always display on screen

[78622](#) Crash when closing dialog immediately after display resolved

[78347](#) Embedded browser on Remote Desktop to displays with 16 bit colour depth now supported

### *Connections, Import and Export - Esri*

[79058](#) SDE: Fixed connection issue when running Mapping for a second time, without stored username and password

### *Connections, Import and Export - GeoFrame*

[79126](#) Added support for GeoFrame wells with depth units of inches and 0.1 inches

### *Connections, Import and Export - OpenWorks*

[78934](#) Added support for OpenWorks R5000.10.7

### *Connections, Import and Export - Petrel*

[78153](#) Well header information is now displayed correctly for Petrel wells when using data cache

### *Coordinate Reference Systems*

[79004](#) CRS selectors fixed in CRS/Point conversion and Excel/Text display

### *dbMap - Client*

[78977](#) Performance improvements for dbMap PPDM3.8 2D Seismic line coordinates

### *Mapping - General*

[78976](#) Cancel button on progress note in status bar now works

### *Mapping - GIS, Spatial and Culture*

[78686](#) Display/GIS - Filter now allows attribute names with embedded spaces

### *Mapping - Grids, Surfaces and Sampled Data Files*

[77973](#) Sampling for histogram generation is now faster when few grid nodes

### *Mapping - Wells*

[78846](#) Well log signature from Petrel now shows correct units when unit overridden in Petrel template

### *Surface Modeling - Gridding*

[79021](#) Reading of Petrel fault sticks surfaces with no data improved

[77271](#) New option to detect more fault sticks in fault sticks gridding

# Petrosys Release PRO 2021.1

Detailed Release Notes

## [Application - ArcGIS Pro Add-In](#) [Enhancements](#)

### **Display Petrosys and 3rd party Geoscience data in ArcGIS Pro** 69870

The new Petrosys Add-In allows users to directly display subsurface data inside ArcGIS Pro from their chosen E&P source.

Features:

- Display wells, well paths, seismic navigation and surfaces, grids, contours, fault polygons directly within in ArcGIS Pro.
- Connect to subsurface and interpretation data from multiple sources.
- All data source vendors supported in Petrosys PRO are supported in ArcGIS Pro; Petrel, DecisionSpace, Paradigm, IHS Kingdom, SeisWare, etc
- Control the display style and publish to Portal as part of ArcGIS Pro workflow.
- Use data in different or customised Coordinate Reference Systems.
- Query object names and other attributes.
- Contours are dynamically computed from the selected surfaces and grids. The Faults and contours are displayed along with the grid to generate a geologically accurate relationship.
- Synchronise, update, and finalise your map. Use the synchronisation buttons to update the display when changes have been made within your interpretation system.

The Add-In will automatically be installed if a compatible version of Esri ArcGIS Pro is installed on the same system when Petrosys PRO 2021.1 is installed.

## [Application - General](#) [Enhancements](#)

### **Red Hat Enterprise Linux 6 no longer supported** 76650

PRO 2021.1 no longer support RedHat Enterprise Linux 6. The supported platforms are RedHat Enterprise Linux 7 and RedHat Enterprise Linux 8.

## [Application - Printing and Publication](#) [Enhancements](#)

### **Export/PDF option in Mapping now has append mode** 42040

The /Export/PDF option in Mapping now allows appending to an existing PDF file.

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## [Application - Printing and Publication](#) [Bug Fixes](#)

### **Export to PDF - International characters supported in filename and path**

79100

On Windows, PDF export from Mapping now supports international characters in the folder path and the filename itself. Previously you would see error xp:312.

**Embedded browser will always display on screen** 78547

In some cases, the embedded browser could be displayed either partially or completely off screen. This has now been fixed.

**Crash when closing dialog immediately after display resolved** 78622

A crash that could occur when closing a dialog immediately after it was displayed has been fixed.

**Embedded browser on Remote Desktop to displays with 16 bit colour depth now supported** 78347

Previously, if the embedded browser was used when connected via Remote Desktop to a host with 16 bit colour depth, the embedded browser would display a black window rather than expected content. This has now been resolved.

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[Configuration - Licensing](#) [Enhancements](#)**New license file required to run Petrosys PRO 2021.1** 78964

Petrosys PRO 2021 requires a new license file. Please obtain your license file by logging on to the Petrosys Client Portal or contacting Petrosys Support.

**SDE: Fixed connection issue when running Mapping for a second time, without stored username and password** 79058

An issue with connecting to SDE when running Mapping a second time and using the new "PsSde" connection method with username/password saving disabled has been fixed.

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[Connections, Import and Export - GeoFrame Bug Fixes](#)**Added support for GeoFrame wells with depth units of inches and 0.1 inches** 79126

Wells with depth units of inches or 0.1 inches are now supported and values are converted to feet for display.

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[Connections, Import and Export - Interactive Correlations \(IC\) Enhancements](#)**Renamed 'ODM' to 'IC' throughout application** 79204

Due to the Oilfield Data Manager being renamed Interactive Correlations, references to ODM have been changed to IC in Petrosys PRO.

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## Connections, Import and Export - OpenWorksBug Fixes

### Added support for OpenWorks R5000.10.7

78934

Connections to OpenWorks R5000.10.7 are now supported.

## [Connections, Import and Export - Petrel Enhancements](#)

### Petrel 2015 no longer supported

78993

Petrel 2015 is no longer supported in Petrosys PRO 2021.1+.

Support for Petrel 2016 through Petrel 2021 remains.

### Petrel 2021.1 supported

78248

Petrosys connectivity to Schlumberger's Petrel now supports direct interaction with Petrel 2021.1.

Support for Petrel 2021.1 includes the ability to:

- Drag and drop data from Petrel into Petrosys PRO
- Import Model grid horizons and 3D seismic interpretation horizons to a Petrosys grid file
- Import faults from Model grids to a Petrosys fault file
- Import 2D and 3D seismic navigation and horizon interpretation data to a Petrosys SDF
- Directly display Structural framework horizons, Model grid horizons, Input surface grids and 3D seismic interpretation horizons in Mapping
- Directly contour Structural framework horizons, Model grid horizon data and Input surface grids in Surface Modeling
- Directly grid 2D and 3D seismic horizon interpretation data in Surface Modeling
- Directly display, grid and import well data.
- Directly display 2D seismic navigation and horizon interpretation in Mapping
- Directly display 3D seismic bin grids in Mapping
- Directly display Structural Model fault surfaces in 3DViewer
- Directly display fault sticks in 3DViewer
- Export Petrosys and other third party grids to Petrel

Petrosys PRO continues to maintain support for connections to Petrel 2016.1 through 2020.x.

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## Connections, Import and Export - Petrel Bug Fixes

### Well header information is now displayed correctly for Petrel wells when using data cache

78153

When data caching was turned on, Petrel well header data would not be displayed in the Mapping Well header dialog. This has now been fixed.

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## Coordinate Reference Systems Bug Fixes

### CRS selectors fixed in CRS/Point conversion and Excel/Text display

79004

The CRS selectors in the "CRS/Point Conversion.." tool and in /Display/GIS for certain sources was broken on 2020.2.3. The CRS selection list had only the 'Unknown' and 'Local Lon-Lat' datums. This has now been fixed.



**Performance improvements for dbMap PPDM3.8 2D Seismic line coordinates** 78977

The performance of reading 2D seismic line coordinates from dbMap databases for PPDM3.8 clients has been significantly improved. For example, Display/2D seismic lines is now up to 6 times faster, depending on how many lines are displayed.

**Cancel button on progress note in status bar now works** 78976

There was a bug in previous version where some redraws in Mapping could not be cancelled by clicking on the stop icon in the status bar. This has now been fixed.

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Mapping - GIS, Spatial and Culture Enhancements

**Import of Generic Mapping Tool's CPT colour gradients supported** 79130

Color palette files (\*.cpt) from Generic Mapping Tools are now supported for import from the Gradient Editor in Mapping via the /File/Import/Generic Mapping Tools (GMT) Color Palette Table (\*.cpt)... menu option.

A selection of cpt files are available from <http://soliton.vm.bytemark.co.uk/pub/cpt-city/views/totp-cpt.html>

**Display/GIS - Filter now allows attribute names with embedded spaces** 78686

The /Display/GIS option now allows filtering of attribute names that have embedded spaces. Previously you would get a "SQL Expression Parsing Error"

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Mapping - Grids, Surfaces and Sampled Data Files Bug Fixes

**Sampling for histogram generation is now faster when few grid nodes** 77973

Display Grid with sparse data now is fast in generating histogram data for colour equalization.

**Well log signature from Petrel now shows correct units when unit overridden in Petrel template** 78846

When displaying well log signature maps from Petrel and the Petrel log curve template has a user-overridden display unit, that unit is now used to display log curves in Mapping.

## [Project Management - Project Selector Enhancements](#)

### **Project selector usernames now use case-insensitive matching** 78265

Usernames entered in the Project Selector administration users list are now matched against system usernames using case-insensitive matching. This simplifies systems where usernames have been created using inconsistent casing rules.

Note: on systems where usernames are case sensitive (e.g. Linux) it is possible for two distinct users to match a single entry, however, in practice, such situations are considered unlikely.

## [Surface Modeling - Gridding Enhancements](#)

### **Option 'model sticks surfaces' was added for fault sticks gridding** 79115

A new option 'Model sticks surfaces' has been added to re-generate vertically aligned fault sticks which are then used in fault sticks gridding.

### **Sample density gridding method performance has been improved significantly** 78376

Sample density gridding method performance has been significantly improved.

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## [Surface Modeling - Gridding](#)

## [Bug Fixes](#)

### **Reading of Petrel fault sticks surfaces with no data improved** 79021

Petrel fault stick surfaces with no data are handled correctly without any extreme delays to running workflows.

### **New option to detect more fault sticks in fault sticks gridding** 77271

A new option 'Search fault contacts in every gridding pass' has been added to capture more fault stick contacts with the grid surface during fault sticks gridding.

## [Surface Modeling - Workflows/Scripting Enhancements](#)

### **Improvements to workflow scripting** 78604

Some improvement in scripting:

- Allow at most three contour increments to be scripted for layer Display/Grid (Contours) in Tools/DrawMap.
- Allow scripting of the 'Equalize' checkbox' in colour gradient in Tools/DrawMap.
- Added ability to use search/replace across multiple scripted parameters in a task on scripting parameters panel.
- Added Tools/Clear-History to clear current text log area to allow easier identification of start of next run.

## Detailed Release Notes Summary PRO 2020.2.4

### Enhancements

#### *Surface Modeling - Gridding*

[79115](#) Option 'model sticks surfaces' was added for fault sticks gridding

## Detailed Release Notes Summary PRO 2020.2.4

### Bug Fixes

#### *Connections, Import and Export*

[79218](#) CRS conversion issue fixed in exchanging Fault sticks from Petrel to OpenWorks

#### *Connections, Import and Export - OpenWorks*

[78934](#) Added support for OpenWorks R5000.10.7

#### *Connections, Import and Export - Petrel*

[78153](#) Well header information is now displayed correctly for Petrel wells when using data cache

#### *Coordinate Reference Systems*

[79004](#) CRS selectors fixed in CRS/Point conversion and Excel/Text display

#### *Mapping - General*

[78976](#) Cancel button on progress indicator in status bar now works

#### *Surface Modeling - Gridding*

[77271](#) New option to detect more fault sticks in fault sticks gridding

## Petrosys Release PRO 2020.2.4

Detailed Release Notes

### Connections, Import and Export

### Bug Fixes

#### **CRS conversion issue fixed in exchanging Fault sticks from Petrel to OpenWorks**

79218

A CRS conversion issue has been fixed that can occur when exchanging Fault sticks from Petrel to OpenWorks

### Connections, Import and Export - OpenWorks Bug Fixes

#### **Added support for OpenWorks R5000.10.7**

78934

Connections to OpenWorks R5000.10.7 are now supported.

### Connections, Import and Export - Petrel

### Bug Fixes

#### **Well header information is now displayed correctly for Petrel wells when using data cache**

78153

When data caching was turned on, Petrel well header data would not be displayed in the Mapping Well header dialog. This has now been fixed.

### Coordinate Reference Systems

### Bug Fixes

#### **CRS selectors fixed in CRS/Point conversion and Excel/Text display**

79004

The CRS selectors in the "CRS/Point Conversion.." tool and in /Display/GIS for certain sources were broken in PRO 2020.2.3. The CRS selection list had only the 'Unknown' and 'Local Lon-Lat' datums. This has now been fixed.

### Mapping - General

### Bug Fixes

#### **Cancel button on progress indicator in status bar now works**

78976

There was a bug in previous versions where some redraws in Mapping could not be cancelled by clicking on the stop icon in the status bar. This has now been fixed.

### Surface Modeling - Gridding

### Enhancements

#### **Option 'model sticks surfaces' was added for fault sticks gridding**

79115

A new option 'Model sticks surfaces' has been added to re-generate vertically aligned fault sticks which are then used in fault sticks gridding.

**New option to detect more fault sticks in fault sticks gridding** <sup>77271</sup>

A new option 'Search fault contacts in every gridding pass' has been added to capture more fault stick contacts with the grid surface during fault sticks gridding.