

## Release Notes

### MineScape 2021 Update 8

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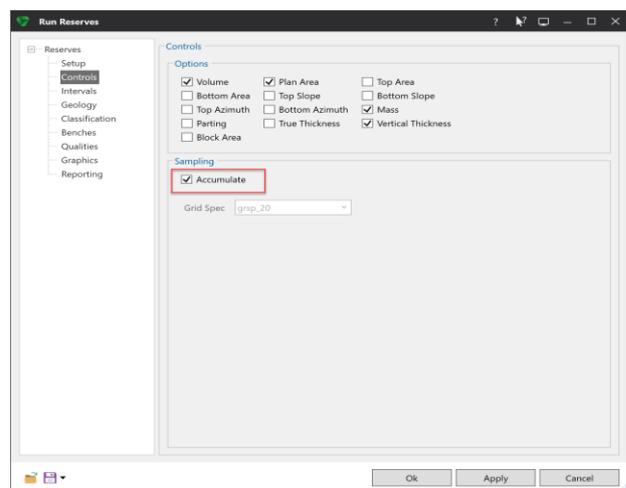
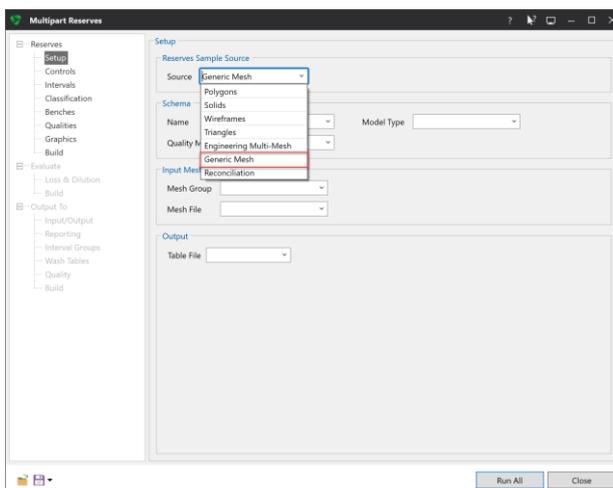
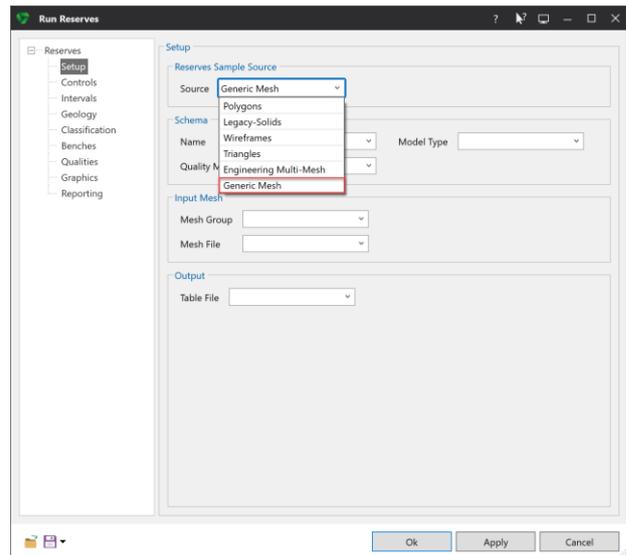
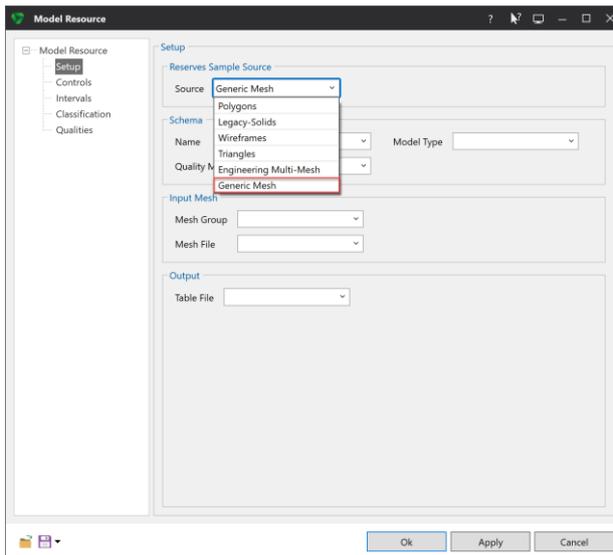
# MineScape 2021 Update 8

The following section lists new functionality and defect fixes delivered in MineScape 2021 Update 8.

## What's New

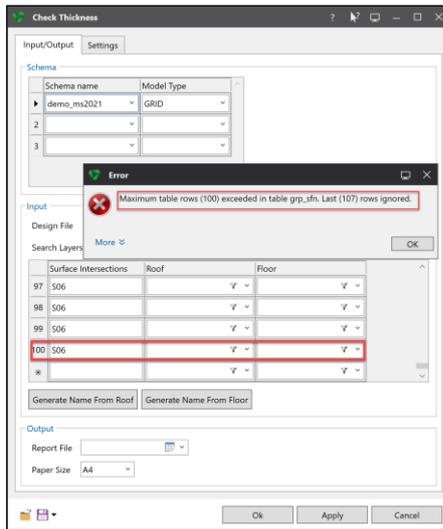
### Reserve Generic Mesh

Generic Mesh has been added to **Model Resource**, **Run Reserves**, and **Multipart Reserves** forms as a reserve sample source type. Users can run reserves using a single mesh and decide whether sampling is accumulated or unaccumulated.

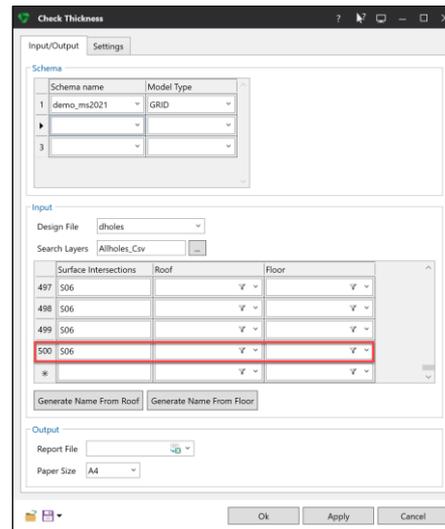


### Check Thickness Input

**Check Thickness** option can now support up to 500 input table rows. The previous version of the **Check Thickness** only supports up to 100 input table rows.



Previous Version (maximum 100 table rows)



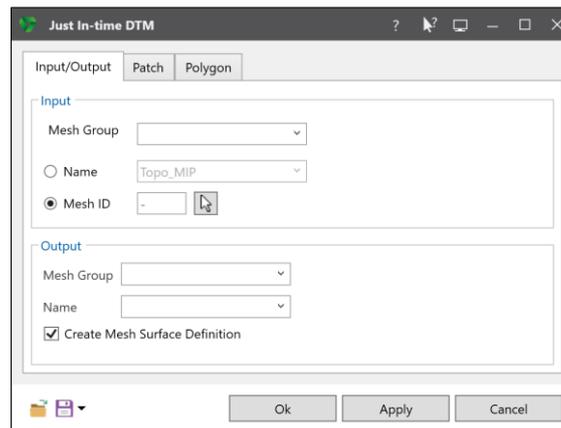
MineScape 2021 Update 8 (up to 500 table rows)

## Just In-time DTM in StratModel App

**Just In-time DTM** option is added to the StratModel app. Users can now use the **Just In-time DTM** option in the Geology product through **Rapid Update » Just In-Time DTM** under the **StratModel** ribbon.



StratModel Ribbon



Just In-time DTM Form

## Specialised Reserve Report

**Specialised Reserve Report** has been added to the **Reports** group. **Specialised Reserve Report** option can be used to generate a user-defined reserve report using a nominated reserve table. The report types are 'Summary with Qualities', 'Quality by Seam', and 'Seam Volumes'.



Reserves Ribbon

Specialised Reserve Report Form

Examples of Specialised Reserve Report output:

1. Summary with Qualities

BRIEF MINE BLOCK RESERVE REPORT														
Name: adi swandani														
Project: STRATMODEL_USERREPORT		13-Mar-23 09:29:10										Datamine Corporate Ltd. MINESCAPE 2021		
Schema: COMP_202106														
Reserve Run: DZ7_VQ														
Created on: 20-Dec-22 14:19:16														
Sampling Density: 9.00 Sq. Metres														
Unit Factor: 1.000														
Block	In situ Coal Mass (t)	Total Burdens (m3)	Mat. (m3)	% Coal	Quality RD	Quality ASH	Quality SODIUM	Quality NWSE	Quality MOISTURE	Quality ALOX	Quality SULPHUR	Quality CALCIUM	Quality MAGNESIUM	Quality HYDROGEN
VQ101	0.1	0.0	0.1	100.0	1.121	3.460	0.052	8.982	60.214	0.489	0.472	0.043	0.075	4.92
VQ102	0.3	0.0	0.2	100.0	1.121	3.518	0.051	8.981	60.172	0.703	0.524	0.042	0.075	4.91
VQ103	0.6	0.0	0.5	100.0	1.121	3.596	0.050	8.981	60.166	0.646	0.531	0.042	0.075	4.90
VQ104	0.6	0.1	0.7	78.9	1.121	3.783	0.050	8.961	60.091	0.786	0.540	0.041	0.074	4.88
VQ105	0.2	0.6	0.8	21.7	1.121	4.065	0.051	8.954	60.039	0.693	0.499	0.039	0.072	4.86
VQ106	0.1	0.8	0.9	9.8	1.121	4.459	0.051	8.947	59.738	0.649	0.454	0.031	0.062	4.78
VQ107	0.5	0.6	1.1	45.3	1.121	4.418	0.051	8.954	59.658	0.530	0.395	0.028	0.060	4.77
VQ108	1.1	0.3	1.3	77.7	1.121	4.158	0.050	9.022	59.535	0.474	0.455	0.028	0.060	4.78
VQ109	1.3	0.3	1.5	81.4	1.121	3.933	0.049	9.064	59.466	0.467	0.466	0.028	0.061	4.79
VQ110	0.9	0.7	1.5	54.3	1.121	3.818	0.049	9.079	59.469	0.442	0.528	0.028	0.061	4.79
VQ111	0.6	1.0	1.6	36.2	1.121	3.560	0.051	9.056	59.594	0.397	0.585	0.032	0.064	4.78
VQ112	0.5	1.1	1.6	31.0	1.121	3.052	0.055	9.044	59.833	0.400	0.561	0.040	0.068	4.80
VQ113	0.8	0.9	1.6	43.1	1.121	2.383	0.059	9.056	60.065	0.389	0.551	0.048	0.073	4.83

2. Quality by Seam

MINE BLOCK RESERVES REPORT																
Name: adi swandani												MINESCAPE				
Project: STRATMODEL_USERREPORT												Datamine Corporate Ltd. MINESCAPE 2021				
Schema: COMP_202106																
Reserve Run: D27_VQ																
Created on: 20-Dec-22 14:19:16																
Sampling Density: 9.00 Sq. Metres																
Unit Factor: 1.000																
Block	Seam Name	Mass	Volume	RD	ASH	Coal Seam		MOISTUR	ALOX	SULPHUR	CALCIUM	MAGNESI	% Coal	Total	Burdens Overburden	Interburden
VQ101	M_M2B	0.1	0.1	1.12	3.46	0.05	8.98	60.21	0.49	0.47	0.04	0.07	100.0	0.0	0.0	0.0
<b>Total</b>		<b>0.1</b>	<b>0.1</b>	<b>1.12</b>	<b>3.46</b>	<b>0.05</b>	<b>8.98</b>	<b>60.21</b>	<b>0.49</b>	<b>0.47</b>	<b>0.04</b>	<b>0.07</b>	<b>100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total Material</b>		<b>0.1</b>														
VQ102	M_M2B	0.3	0.2	1.12	3.52	0.05	8.98	60.17	0.70	0.52	0.04	0.07	100.0	0.0	0.0	0.0
<b>Total</b>		<b>0.3</b>	<b>0.2</b>	<b>1.12</b>	<b>3.52</b>	<b>0.05</b>	<b>8.98</b>	<b>60.17</b>	<b>0.70</b>	<b>0.52</b>	<b>0.04</b>	<b>0.07</b>	<b>100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total Material</b>		<b>0.2</b>														
VQ103	M_M2B	0.6	0.5	1.12	3.60	0.05	8.98	60.17	0.65	0.53	0.04	0.07	100.0	0.0	0.0	0.0
<b>Total</b>		<b>0.6</b>	<b>0.5</b>	<b>1.12</b>	<b>3.60</b>	<b>0.05</b>	<b>8.98</b>	<b>60.17</b>	<b>0.65</b>	<b>0.53</b>	<b>0.04</b>	<b>0.07</b>	<b>100.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total Material</b>		<b>0.5</b>														

### 3. Seam Volumes

MINE BLOCK RESERVES REPORT															
Name: adi swandani												MINESCAPE			
Project: STRATMODEL_USERREPORT												Datamine Corporate Ltd. MINESCAPE 2021			
Schema: COMP_202106															
Reserve Run: D27_VQ															
Created on: 20-Dec-22 14:19:16															
Sampling Density: 9.00 Sq. Metres															
Unit Factor: 1.000															
Block	Seam Name	Mass	Volume	Ash	Interval Sodium	Calcium	Moisture	Alsol	Total	Burdens Overburden	Interburden	Strip Ratio	Cumulatives Coal Mass	Total Burden	
VQ101	M_M2B	0.1	0.1	3.46	0.05	0.04	60.21	0.49	0.0	0.0	0.0	0.00			
<b>Total</b>		<b>0.1</b>	<b>0.1</b>	<b>3.46</b>	<b>0.05</b>	<b>0.04</b>	<b>60.21</b>	<b>0.49</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.00</b>	<b>0.1</b>	<b>0.0</b>	
<b>Total Material</b>		<b>0.1</b>	<b>Cumulative Total Material</b>		<b>0.07</b>									<b>Quality Interval</b>	<b>ID1</b>
VQ102	M_M2B	0.3	0.2	3.52	0.05	0.04	60.17	0.70	0.0	0.0	0.0	0.00			
<b>Total</b>		<b>0.3</b>	<b>0.2</b>	<b>3.52</b>	<b>0.05</b>	<b>0.04</b>	<b>60.17</b>	<b>0.70</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.00</b>	<b>0.3</b>	<b>0.0</b>	
<b>Total Material</b>		<b>0.2</b>	<b>Cumulative Total Material</b>		<b>0.31</b>									<b>Quality Interval</b>	<b>ID1</b>
VQ103	M_M2B	0.6	0.5	3.60	0.05	0.04	60.17	0.65	0.0	0.0	0.0	0.00			
<b>Total</b>		<b>0.6</b>	<b>0.5</b>	<b>3.60</b>	<b>0.05</b>	<b>0.04</b>	<b>60.17</b>	<b>0.65</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.00</b>	<b>0.9</b>	<b>0.0</b>	
<b>Total Material</b>		<b>0.5</b>	<b>Cumulative Total Material</b>		<b>0.81</b>									<b>Quality Interval</b>	<b>ID1</b>

## Defects Fixed

### #38431 – Fill patterned polygon appeared solid in the PDF file and Print Preview mode.

Problem: A polygon with a fill pattern didn't appear transparent in Print Preview mode and in the PDF file when viewport.pagespec (in specs folder) was not available. The viewport object was not properly initialized if viewport.pagespec was absent.

### #38962 – The import DXF file doesn't work properly.

Problem: The import result layer was not created on the selected design layer when the **Support Older Version of AutoCAD** checkbox was selected. Additionally, the import result layer was created when the **Support Older Version of AutoCAD** checkbox was unselected, however the result was still incorrect.

### **#39137 – Error message displayed after selecting column name in GDB » Data » Text**

Problem: Error message displayed after selecting column name in GDB » Data » Text as it was impacted by the crash when modifying Data Format Information data grid.

### **#40172 – Tolerance issue on Dragline manual tagging point.**

Problem: Error message launched after picking up a tagging point. The point was out of range due to the discrepancy between vertices.

### **#40230 – Incorrect value for coal tonnage on the Dragline report**

Problem: The report for the Coal using value from column DL\_SWREHANDLE instead of DL\_COAL.

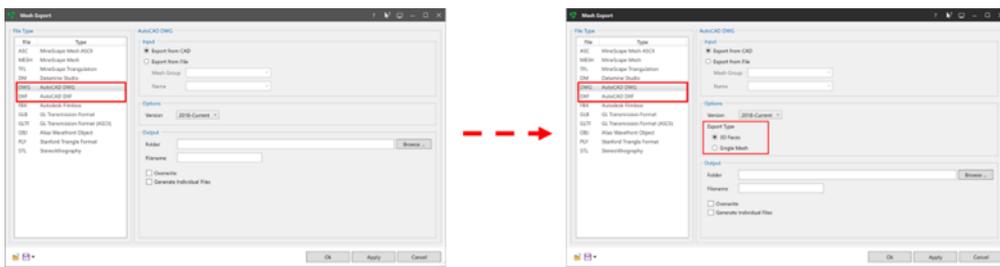
# MineScape 2021 Update 7

The following section lists a new functionality and some defect corrections delivered with MineScape 2021 Update 7.

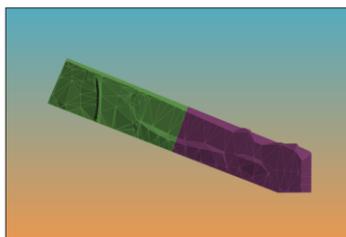
## What's New

### Mesh Data Export Enhancement

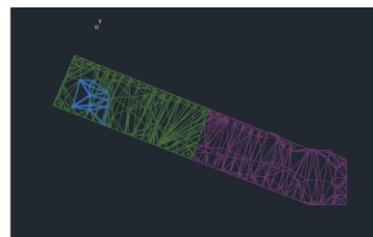
**3D Faces** and **Single Mesh** export type option are added for users to decide how a mesh is exported in the AutoCAD format. The default is now **3D Faces** which each Mesh Face is exported as a single 3DFace AutoCAD object, so that each face is selectable individually. **Single Mesh**, the previous default, exports mesh as a single AutoCAD mesh that has to be exploded first before each face can be selected.



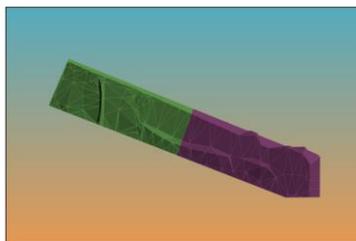
Mesh Export Form



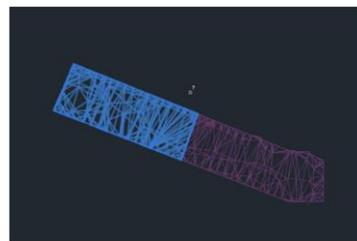
MineScape Mesh



AutoCAD 3D Face



MineScape Mesh



AutoCAD Single Mesh

**Note**

— : Selected object

## Defects Fixed

### #38314 – Unable to export mesh to LandXML from CAD window

Problem: Exporting mesh to LandXML from CAD window didn't work as it was impacted by the development of **Mesh to ASCII** function.

### #33617 – GDB Hole Report skipping all tables after an invalid table

Problem: Report stops counting the valid tables in the schema when it hits an invalid table that caused truncated report.

### #38379 – Failed to cut mesh at an angle of certain degrees

Problem: Occasionally, when performing interactive slicing at an angle of certain degree such as 45°, the mesh will not be cut.

# MineScape 2021 Update 6

The following section lists the new functionality, features and defect corrections delivered with MineScape 2021 Update 6.

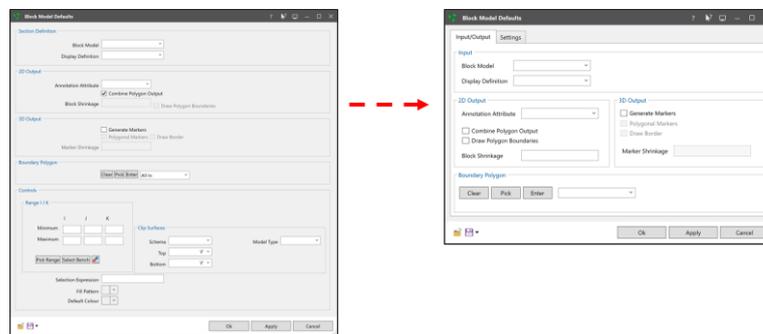
## What's New

### Form Enhancements

Forms in **Block Model**, **Pit Optimization**, **Pit Optimization Pro**, and **Dragline** have been updated.

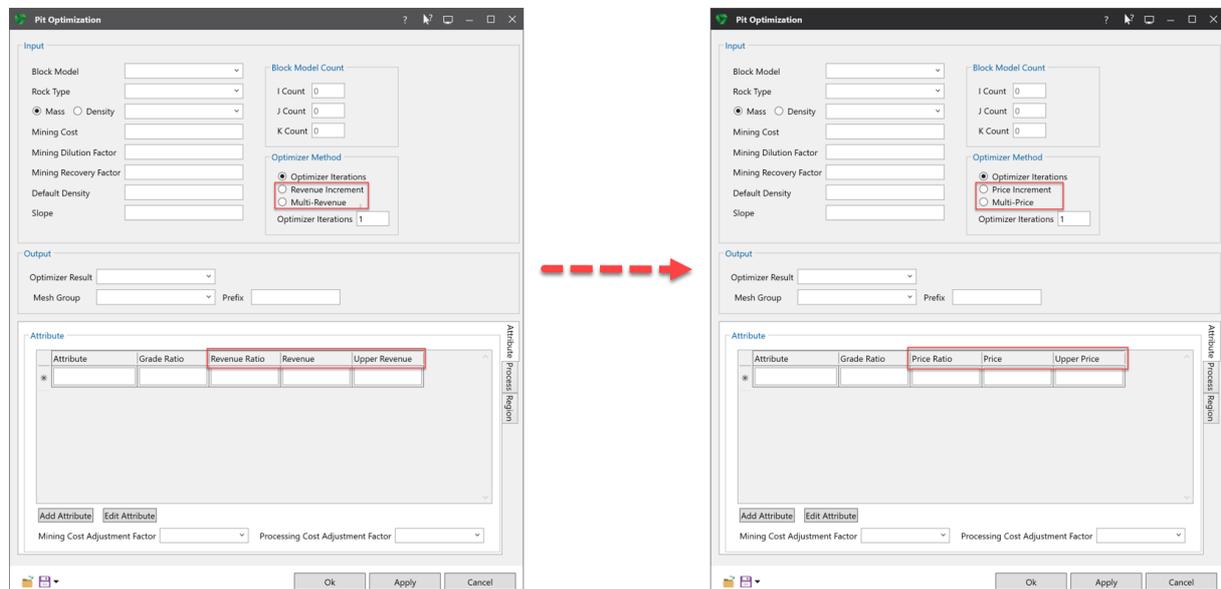
#### Block Model

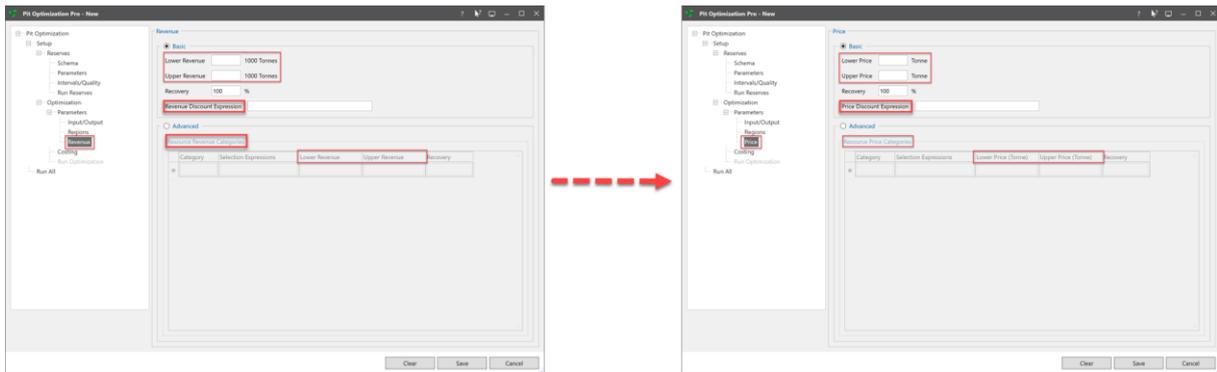
The appearance and layout of numerous forms have been upgraded and improved to provide a better user experience.



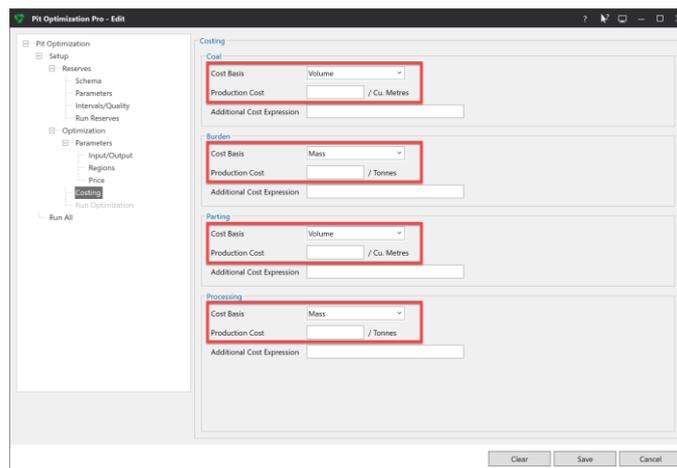
#### Pit Optimization & Pit Optimization Pro

The **Pit Optimization** and **Pit Optimization Pro** forms now use the word *price* to best represent the actual calculation context.



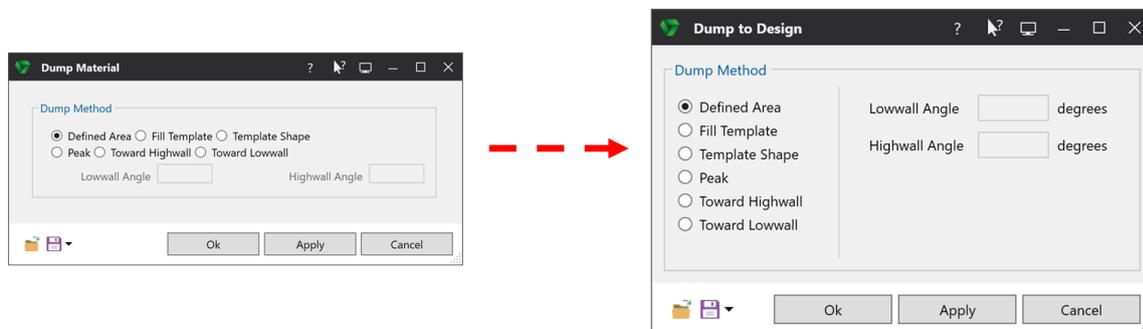


**Pit Optimization Pro » Costing** form now also displays the unit for **Production Cost** field based on the **Cost Basis** input. **Production Cost** field shows the cost per tonnes or short tons if the **Cost Basis** is Mass, and per cubic metres if the **Cost Basis** is Volume.



## Dragline

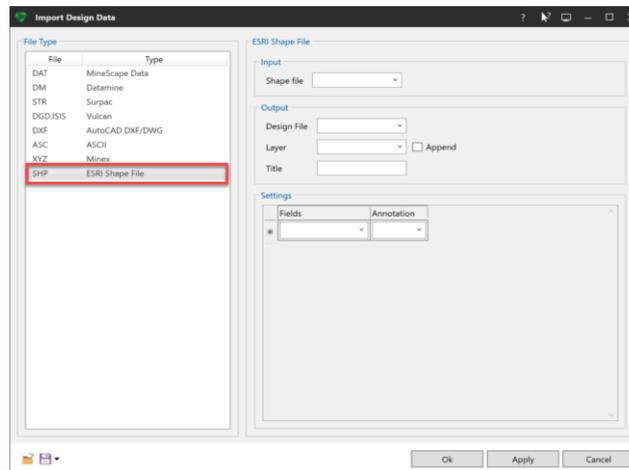
The appearance and layout of numerous forms have been upgraded and improved to provide a better user experience.



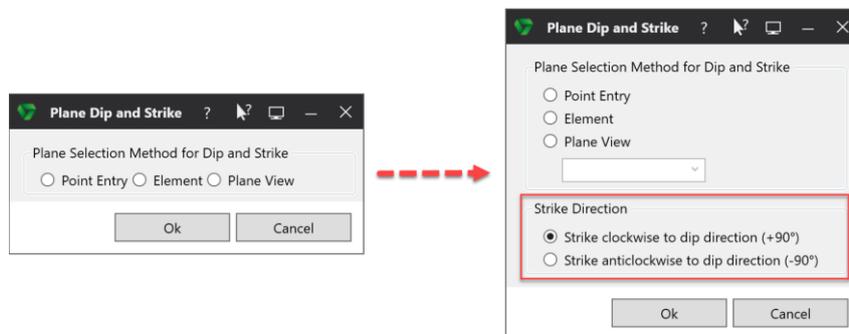
## CAD Enhancements

### Data Exchange

ESRI shape file (SHP) has been added to **Import Design Data** form as a file type that can be imported into MineScape design file. Users can also choose the metadata tag/s to be imported along with the file through the **Settings** section in the form. To display the form, select **Data Exchange » Import** under the **Home** ribbon.

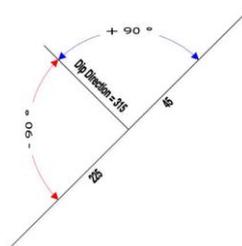


### Dip and Strike



The Strike Direction options have been added to **Plane Dip and Strike** form. To display this form, select **Dip and Strike** in **Inspect** group under the **Analyse** ribbon. There are two options of direction added: clockwise (+90°) and anticlockwise (-90°).

The following image illustrates the Strike Direction and the result.

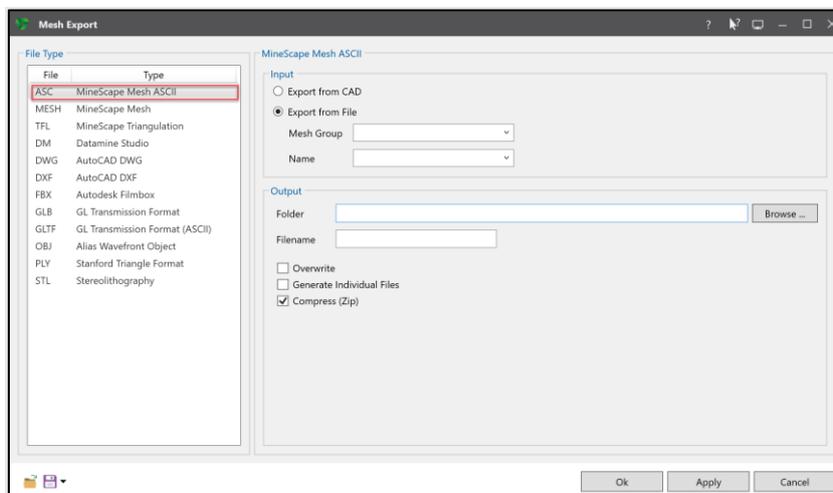
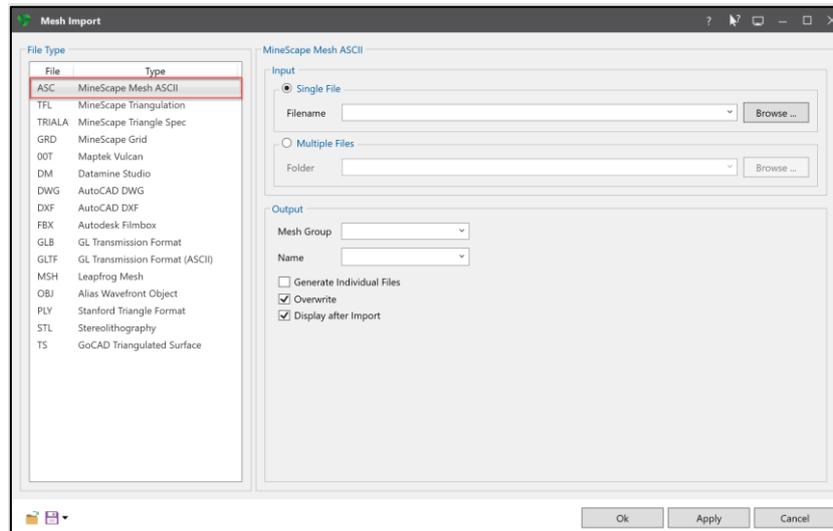


If Strike clockwise to dip direction (+90°) is selected and the dip direction is 315°, then the strike is returned as 45°.

If Strike anticlockwise to dip direction (-90°) is selected and the dip direction is 315°, then the strike is returned as 225°.

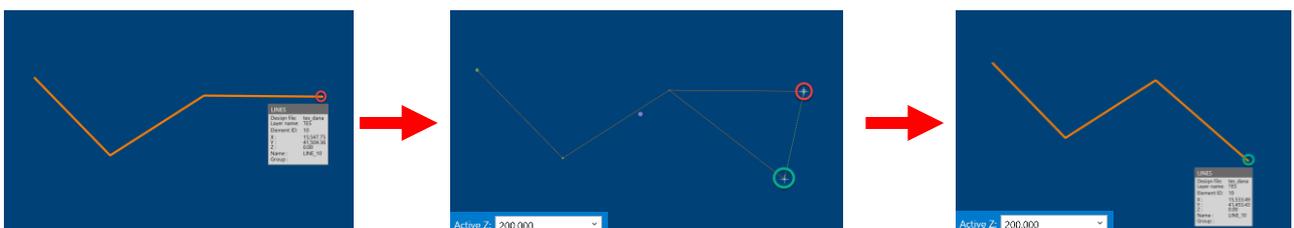
## Mesh Import and Export File

MineScape Mesh ASCII file (ASC) has been added to **Mesh Import & Mesh Export** form as a file type that can export from and be imported into MineScape mesh file. Users can also compress mesh file into Zip file. To display the form, select **File » Import / Export** from the **Mesh** ribbon.



## Move Point

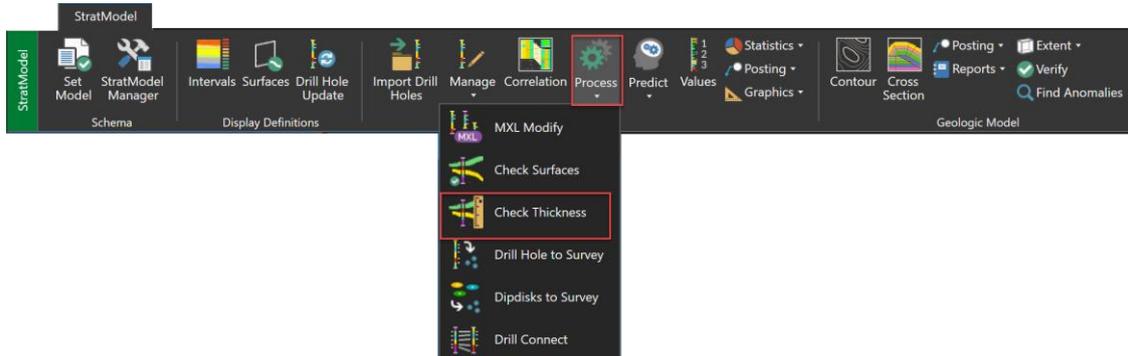
Move point can now disregard the active Z value. This behaviour is applied when moving point/vertex using CAD » **Design** » **Points** » **Move** option and **RapidCad**.



## Stratmodel Enhancement

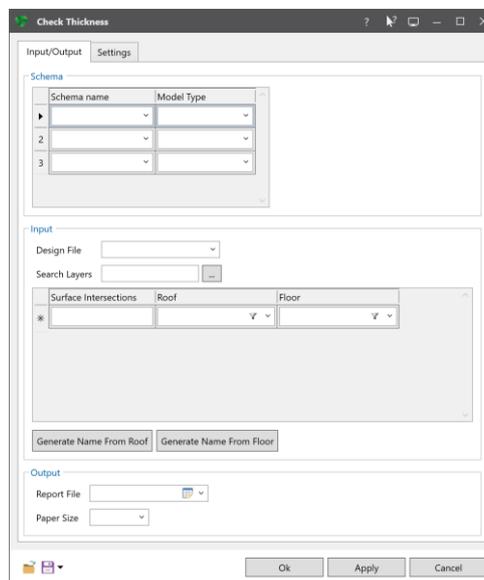
### Check Thickness

The **Drill Holes » Process » Check Thickness** option has been added to the **Stratmodel** ribbon.



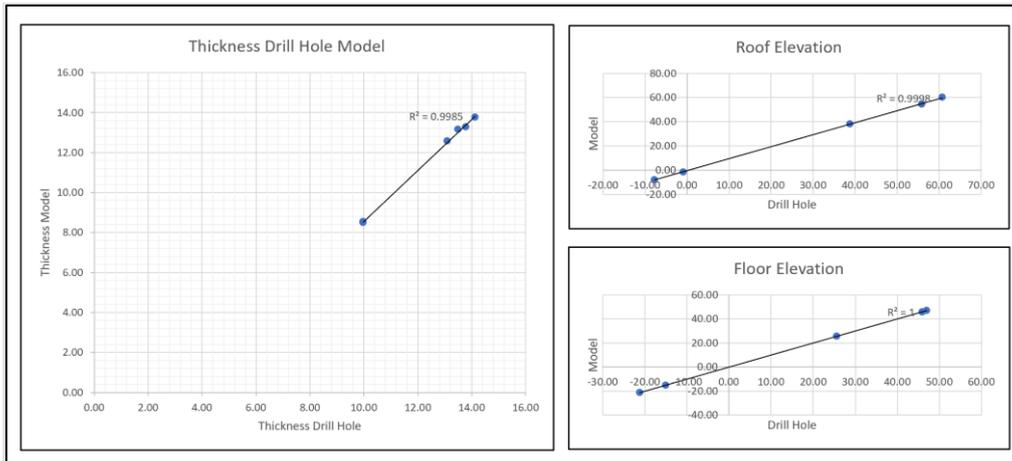
The **Check Thickness** option can be used to check the thickness differences between drill hole intersections and surfaces (roof and floor). The value associated with a roof and floor surfaces is compared to the value stored in each selected drill hole.

The **Check Thickness** form is displayed after selecting **Drill Holes » Process » Check Thickness** from the **StratModel** ribbon.



The following report file (table and chart) is an example generated by the **Check Thickness** option.

Name: Ristyandana Ristyandan		DRILL HOLE SURFACE EVALUATION										MINESCAPE	
Project: POOC_ms2021		29-Sep-22 10:38:08										Datamine Corporate Ltd. MINESCAPE 2021	
Schema	Holename	Surface	X	Y	Roof(H)	Roof(S)	Diff(Roof)	Floor(H)	Floor(S)	Diff(Floor)	Thick(H)	Thick(S)	Diff(Thick)
demo_ms2021	CH024	S04	17886.26	40871.38	55.91	54.39	-1.51	45.93	45.86	-0.07	9.98	8.53	-1.45
demo_msdna	DH002	S06	14068.22	41351.32	60.75	60.24	-0.51	46.96	46.95	-0.01	13.79	13.29	-0.50
demo_msdna	DH009	S06	17024.23	41177.34	38.74	38.19	-0.55	25.64	25.62	-0.02	13.10	12.57	-0.53
demo_msdna	DH014	S06	13589.24	40928.35	-7.71	-8.06	-0.35	-21.20	-21.23	-0.03	13.49	13.17	-0.32
demo_msdna	CH024	S04	17886.26	40871.38	55.91	54.39	-1.52	45.93	45.91	-0.02	9.98	8.48	-1.50
demo_msdna	CH033	S06	16213.28	41286.41	-0.92	-1.38	-0.46	-15.04	-15.14	-0.10	14.12	13.76	-0.36



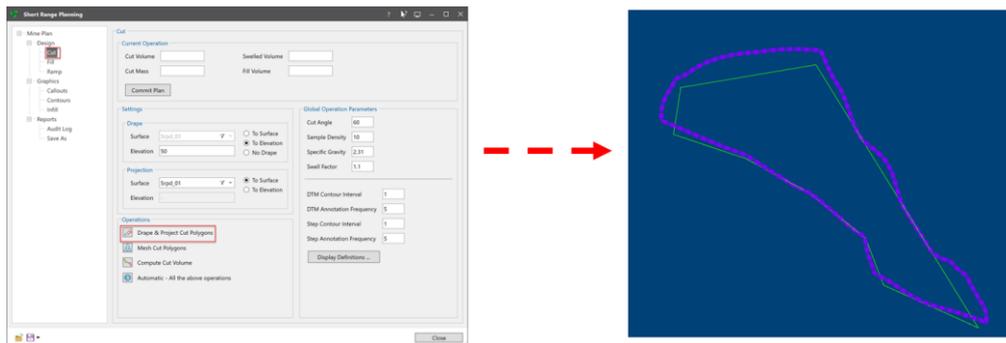
## Open Cut Enhancements

### Short Range Planning (SRP)

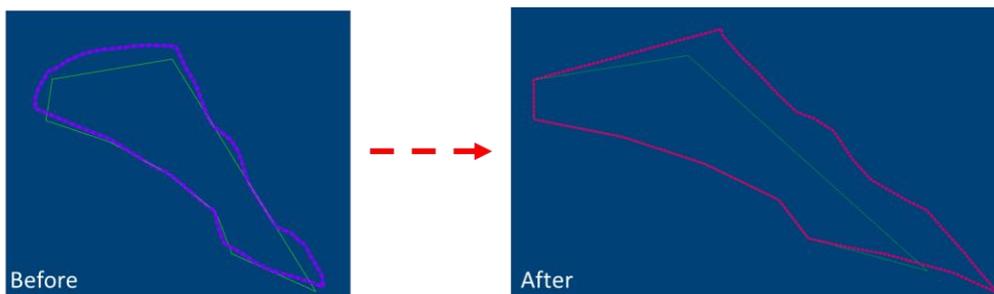
The polygon generated by **Drape & Project Cut / Fill Polygons** button can now be updated or replaced. This polygon can be updated or replaced by selecting <PlanName>\_02\_CUT or <PlanName>\_03\_FILL as a write design layer.

The following images are examples of updating the polygon on Cut node SRP.

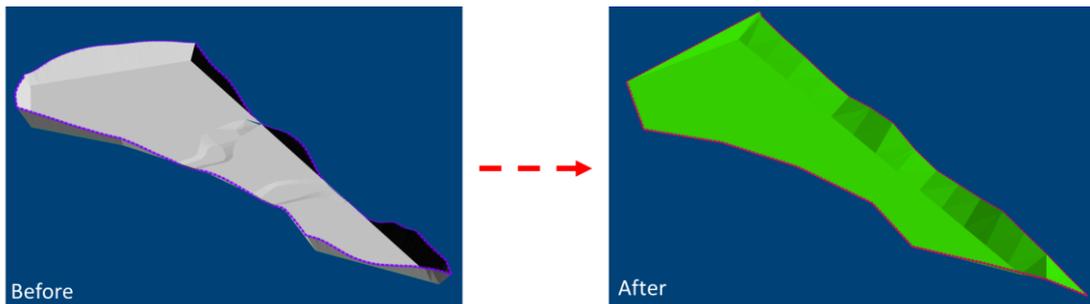
- Generate **SRP Drape & Project Cut** polygons.



- Import and replace the polygon on <PlanName>\_02\_CUT layer.

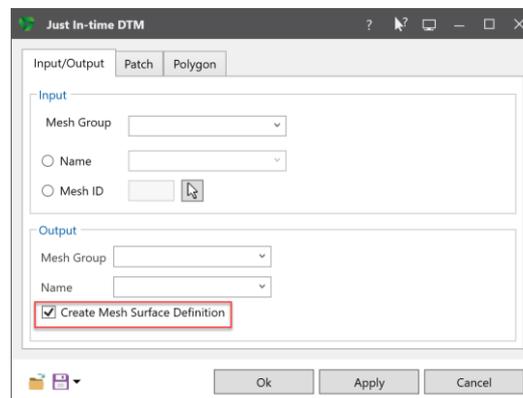


- Select **Mesh Cut Polygons** button.



## Just In-time DTM

**Create Mesh Surface Definition** check box has been added to **Just In-time DTM** form. **Create Mesh Surface Definition** check box is to create a surface definition (. surface) using the output mesh file. Surface definitions are listed in the **Definitions » Surfaces** folder of the **Explorer** tab and stored under the surfaces folder of the current project.



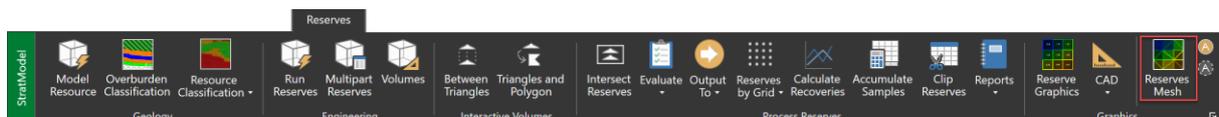
## Dragline

Dragline can now support up to 4080 vertices on surfaces. In the previous MineScope version, the maximum number of vertices allowed on dragline surfaces is 1000.

## Reserves Enhancements

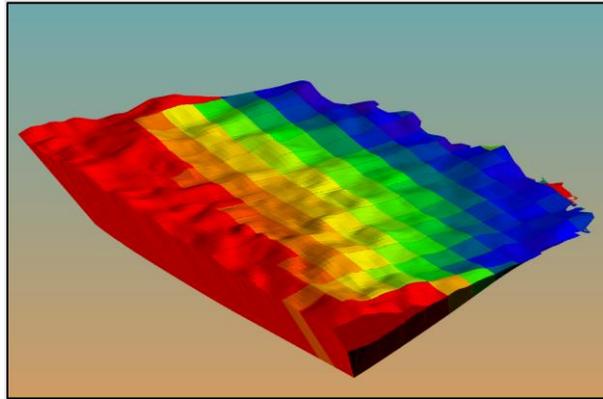
### Reserves Mesh

The **Graphic » Reserves Mesh** option has been added to the Reserves ribbon.



The **Graphics » Reserves Mesh** option can be used to process the engineering solids mesh and accumulated multi-mesh reserves result to get the color-coded mesh for simple pit optimization using coal and overburden parameters. The output from **Graphics » Reserves Mesh** can be used to determine economic area boundaries based on Stripping Ratio (SR) value. This value can then be used as a reference/basic for a pit construction.

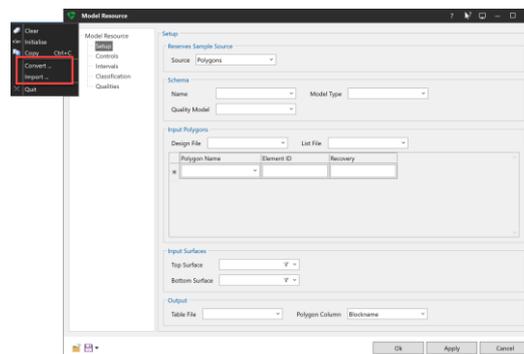
The following table and image are the output mesh generated by the **Reserves Mesh** option.



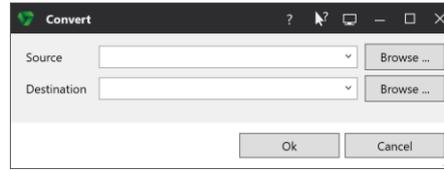
	MESH	BLOCKNAME	OVERBURDEN	COAL	STRIPRATIO	CUMOVERBURDEN	CUMCOAL	CUMSTRIPRATIO	COLOURINDEX
1	L001S006B000	B000	733.18	1,007.41	0.73	733.18	1,007.41	0.73	121.83
2	L001S007B000	B000	103,912.96	18,261.70	5.69	104,646.14	19,269.11	5.43	200.00
3	L001S008B000	B000	581,797.61	28,512.07	20.41	686,443.75	47,781.18	14.37	200.00
4	L001S009B000	B000	883,396.33	25,712.69	34.36	1,569,840.08	73,493.86	21.36	200.00
5	L001S010B000	B000	1,370,862.18	26,844.87	51.07	2,940,702.27	100,338.73	29.31	200.00
6	L001S011B000	B000	1,846,586.89	23,764.54	77.70	4,787,289.16	124,103.26	38.58	200.00
7	L001S012B000	B000	2,779,963.72	22,931.88	121.23	7,567,252.88	147,035.15	51.47	200.00
8	L001S004B001	B001	6,965.17	11,359.99	0.61	6,965.17	11,359.99	0.61	118.39
9	L001S005B001	B001	63,174.19	101,145.49	0.62	70,139.36	112,505.48	0.62	118.70
10	L001S006B001	B001	322,034.90	287,910.65	1.12	392,174.26	400,416.13	0.98	129.38
11	L001S007B001	B001	766,323.38	421,033.47	1.82	1,158,497.64	821,449.60	1.41	142.31
12	L001S008B001	B001	1,467,847.16	454,680.46	3.23	2,626,344.80	1,276,130.06	2.06	161.74
13	L001S009B001	B001	2,080,956.37	448,361.28	4.64	4,707,301.17	1,724,491.34	2.73	181.89
14	L001S010B001	B001	2,749,497.37	456,628.54	6.02	7,456,798.54	2,181,119.88	3.42	200.00
15	L001S011B001	B001	2,959,256.52	452,114.62	6.55	10,416,055.07	2,633,234.49	3.96	200.00
16	L001S012B001	B001	3,789,624.38	518,820.05	7.30	14,205,679.45	3,152,054.54	4.51	200.00
17	L001S004B002	B002	36,686.53	85,754.66	0.43	36,686.53	85,754.66	0.43	112.83
18	L001S005B002	B002	265,159.91	288,054.28	0.92	301,846.44	373,808.93	0.81	124.22
19	L001S006B002	B002	687,601.74	478,772.90	1.44	989,448.18	852,581.83	1.16	134.82
20	L001S007B002	B002	1,156,996.75	532,395.76	2.17	2,146,444.92	1,384,977.59	1.55	146.49
21	L001S008B002	B002	1,675,028.02	536,794.96	3.12	3,821,472.95	1,921,772.55	1.99	159.66
22	L001S009B002	B002	2,258,268.02	539,738.64	4.18	6,079,740.97	2,461,511.19	2.47	174.10

## Load Form Spec

Reserves polygon (.res\_pol) form spec file can now be easily used in MineScape 2021 by converting and importing it. The **Convert** and **Import** options have been added to the **Model Resource, Run Reserves, and Multipart Reserves** form menu. To display the menu, left click the  icon on the left top corner of the form, and select **Convert** or **Import**.

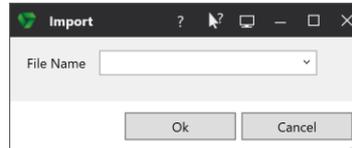


## Convert



**Convert** allows users to choose a **Source** folder and convert all reserves polygon (.res\_pol) formspec/s within it concurrently. The converted files will be stored in a folder nominated in the **Destination** field and ready to be selected and used through **Load Form Specification**.

## Import



**Import** allows users to select a reserves polygon file and immediately load the values from it to the form.

## Defects Fixed

### #24719 – Drill Hole Top Marker Editing

Problem: Couldn't set blast hole marker top colour on **Edit Holes** form.

### #33617 – Gaps in contour output

Problem: Small gaps were found when being zoomed in.

### #36309 – Performance issue

Problem: With many mesh files open, selecting multiple elements took more than 6 seconds and/or led to not-responding error message.

### #36443 – Missing Mesh names

Problem: Mesh names did not appear in the properties tab after running **Bench Blocks** to DTM.

### #36488 – Misfunctioning Enter key

Problem: In some forms, Enter key didn't perform the **OK** button behaviour.

### #36504 – Reconciliation Deficiencies

Problem: Display Definition and Existing Polygon function on Reconciliation form didn't work properly. Polygon List File was not editable and viewable, and a Form Validation warning appeared when running Reconciliation Reserves.

### #36514 – Unavailable Ok and Cancel button on input form

Problem: OK and Cancel button were not available on the Input form.

### #36534 – Error in Check Surfaces menu

Problem: In **Stratmodel** app, performing **Check Surfaces** menu for larger drill holes showed an error message.

### #36559 – MineScape freezes

Problem: MineScape freezes after editing text size in **Properties** editor.

### #36561 – MineScape crash

Problem: The crash occurred after clicking **Insert Before** in **Manual Georeferencing** form.

### #36575 – Form won't update

Problem: After configuring **Display Definition** in **Mesh Surface Definition** form, the name in the form won't update.

### #36660 – Unable to import Surpac file

Problem: When importing Surpac file into MineScape, module completed with warnings and the layer was empty.

### #36703 – Hole naming issue

Problem: **Hole Name** in report file was listed as number with decimal place.

### #36707 –Quantity in Coal Bench Blocks

Problem: **Coal Bench Blocks** shows Burden quantity.

### #36724 – Failure in creating database

Problem: Creating a database and running other admin ribbon operations failed without indication.

### #36761 – Incorrect output of data import

Problem: Output shows WASULPHUR data in SPE column and WASPENERGY data in SUL column.

### #36896 – Admin options did not work after changing the port for SQL server

Problem: Cannot run admin options when target SQL Server instance uses a non-default port.

### #36897 – Debug script is visible to users

Problem: Script log files containing debug/TODO lines were visible to users.

### #36898 – Misbehaviour of Properties and Visual Overrides editor

Problem: Elements could be selected when **Pick** option had been disabled, and overridden colour was removed although **Colour** option in **Visual Overrides** editor remained ticked.

### #36902 – Failed to update Reconciliation reserves grid

Problem: Reconciliation reserves grid was not updated after changing polygon list.

### #36922 – Create Solid Between Surfaces input required Schema & Model Type

Problem: **Create Solid Between Surfaces** couldn't be completed without **Schema** and **Model Type** input and caused error message.

### #36941 – Gaps found in Triangle Prisms

Problem: Holes were found in prisms created through **StratModel** > **Prisms** > **Graphics** > **Pick Polygon**.

### #37014 – Inability to contour mesh

Problem: Contour was not created after correctly completing the form.

### #37046 – Drill holes partially not imported

Problem: Some of the drill holes were not imported correctly when the Output Layer Name column was mapped.

### #37047 – Fault's Era and Extent default value

Problem: Era and Extent values were set to 0 (zero) by default.

### **#37052 – MineScape Crash**

Problem: The crash occurred when opening a table in the Excel app which was not set in the registry.

### **#37062 – Minex Grid ASCII Import Issues**

Problem: Separate Quality and Schema functions did not work after importing the ASCII structure dump file.

### **#37137 – MineScape Diagnostics Help Issues**

Problem: Help files in MineScape Diagnostics, License Diagnostics, and Server Diagnostics couldn't be loaded.

### **#37186 – Inability to use Design Polygon object to relimit the mesh**

Problem: Design Polygon couldn't be selected to relimit the mesh.

### **#37193 – Overlapping Fields in Expression Surface Definition form**

Problem: Expression Surface Definition form displayed overlapping fields and writing.

### **#37259 – MineScape Crash**

Problem: The crash occurred when performing **Preview and Print** in plot design.

### **#37272 – Upside down Pit Optimization visualisation**

Problem: Pit optimization started at the bottom and worked towards the top.

### **#37297 – Inappropriate mesh surface display definition**

Problem: Difference between the picked mesh colour, and the created mesh surface display definition.

### **#37331 – Drape did not work properly with points or point string**

Problem: When draping to a mesh group/file or a mesh surface, multiple vertices were created.

### **#37336 – Duplicate nodes in Data Exchange**

Problem: Data Exchange Settings form showed duplicate nodes after reloading CAD plugin.

### **#37368 – Seams were excluded from cross section**

Problem: Some seams were not shown in cross section.

### **#37379 – Empty table after saving changes**

Problem: Lost data in large table file after adding column and saving the changes.

### **#37438 – Settings form didn't launch**

Problem: Settings form in Haulage Drive Road menu didn't launch.

### **#37440 – Some quality values were not listed on Multipart Reserves form**

Problem: The vertical scrollbar was unavailable on the Reserves » Qualities node, and not all quality values were listed on the Output To > Quality node.

### **#37481 – The output table was empty when running Intersect Reserves option**

Problem: The output table of Intersect Reserves was empty when using list polygon file.

### **#37490 – MineScape Crash when cancelling mesh manual georeferencing form**

Problem: The crash occurred when cancelling Georeferencing form while selecting the mesh and properties editor.

### **#37529 – The metadata name contains underscore converted to Pascal case**

Problem: Difference between the input on **Find Elements » Add Metadata option** and metadata name under the metadata list.

### **#37545 – No confirmation pop-up message when creating Donut polygon**

Problem: There was no confirmation message and option to Edit Existing or Create New polygon.

### **#37681 – Some qualities value from Output to » Build in Multipart Reserves form were not listed on the output table.#37724 – The mesh result from Bench Blocks to DTM process was empty**

Problem: The mesh output from Bench Blocks to DTM option was empty.

### **#37827 – Auto generated MineScape Crash**

Problem: Unhandled null reference on NotifyMetaAdded.

### **#37729 – Loading scenario on Pit Optimization Pro form did not work properly**

Problem: Loading scenario couldn't work properly on Pit Optimization Pro form.

### **#37744 – Unable to create reserves report**

Problem: The module couldn't be successfully completed, and the report was not created when running Run Reserves.

### **#37756 – MineScape crash when opening specific project**

Problem: The crash occurred when opening project with customized line style or line weight.

### **#37770 – The grid spacing delay in viewport properties and plot designer**

Problem: Different grid spacing between grid displayed and the value on the Viewport Properties form.

### **#37792 – Unable to Create, Edit, and View Side Definition on Tag Segments**

Problem: Unable to Create, Edit and View side definition on Tag Segment from Open Cut ribbon.

### **#37814 – Incorrect sequence of Grid File field and Grid Z Location Value field**

Problem: The Grid File field should be located above the Grid Z Location Value.

### **#37822 – Incorrect units listed on the .dxf file after exporting a Design file to .dxf**

Problem: The units listed were incorrect after exporting a Design file into a .dxf file.

### **#37824 – Various GDB modules couldn't run when connecting to SQL server with Windows Authentication**

Problem: Various GDB modules couldn't run when connecting SQL server to Windows Authentication. The Windows Authentication passed the GDB username and password as blank.

### **#37827 – MineScape Crash**

Problem: Auto-generated MineScape crash

### **#37861 – Mismatch of options in Stratmodel » Cross Section in Russian version**

Problem: The dropdown list on Cross Section form was not in correct sequence.

### **#37869 – Missing Settings section on Walk Through form**

Problem: Settings section was not displayed on Walk Through form.

### **#37885 – Copy and Paste not duplicated the element properly**

Problem: The copied element was not pasted on the same position accurately.

### **#37900 – The error message appeared when selecting Washability » Product Interpretation menu**

Problem: The error message was displayed when selecting Washability » Product Interpretation menu.

### **#37935 – Incorrect fields position on Grid Surface Definition form**

Problem: The Grid File field was located below the Grid Value field.

### **#37939 – The Minimum Tolerance value was not applied to the Check Thickness report**

Problem: The output report file disregards the Minimum Thickness Tolerance value.

### **#37948 – Dfstat issue in Suncor**

Problem: Dfstat failures to detect DFserver.

### **#37955 – The Element Edit form closed after editing an element when several elements are selected**

Problem: When doing element edit on multiple elements, it stopped after clicking OK on first element.

### **#37956 – Error message appeared after running Bench Block from Bench Block ribbon**

Problem: Error messages appeared after running Calculate Reserve and Report options.

### **#38103 – An error message appeared after running Pit Gridding form (customize option)**

Problem: An error message appeared after running Pit Gridding by clicking OK. An error message didn't occur when clicking APPLY.

### **#38106 – Warning message didn't appear when line element was selected for Design - Cut and Fill process on SRP**

Problem: A warning message didn't appear when line element was selected on Cut or Fill process, and the feedback message appeared while cut or fill process was running.

### **#38134 – Unable to drape element into mesh surface**

Problem: Unable to drape element to mesh surface with original vertices only.

### **#38144 – Append > Yes input in Russian version did not work**

Problem: In MineScape Russian version, selecting Yes on the Append options did not append, but overwrote the existing.

# MineScape 2021 Update 5

## Security Update

This release consists only of security updates for MineScape. The update includes defense-in-depth updates to improve security-related features. It is imperative that this update be installed to minimize any issues with future updates.

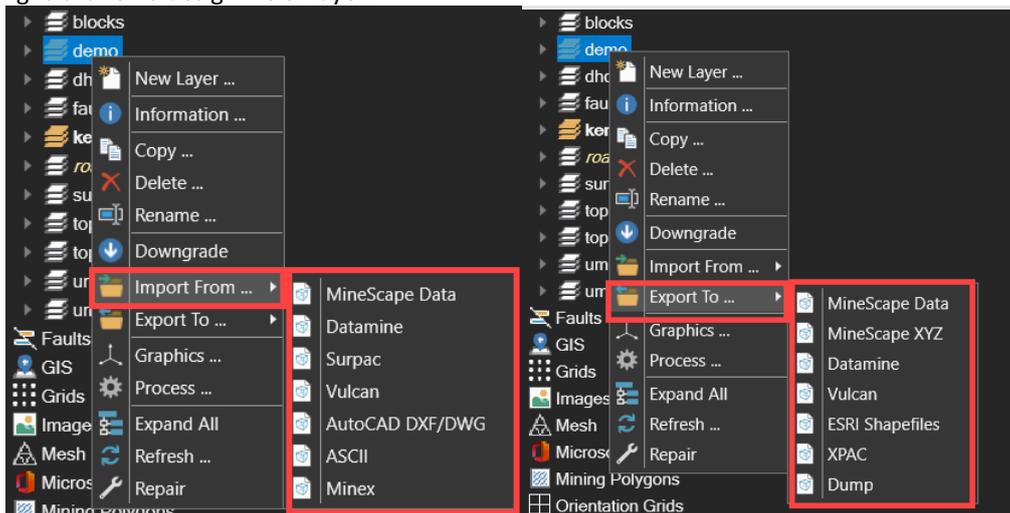
# MineScape 2021 Update 4

The following section lists the new functionality, features and defect corrections delivered with MineScape 2021 Update 4.

## What's New

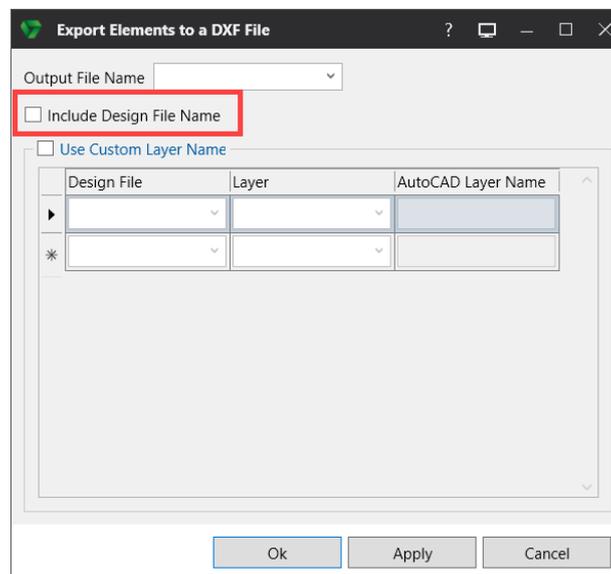
### Data Transfer Enhancements

The **Import From** and **Export To** options have been added to the **Explorer** tab's right-click menu. To display the options, right-click on a design file or layer.

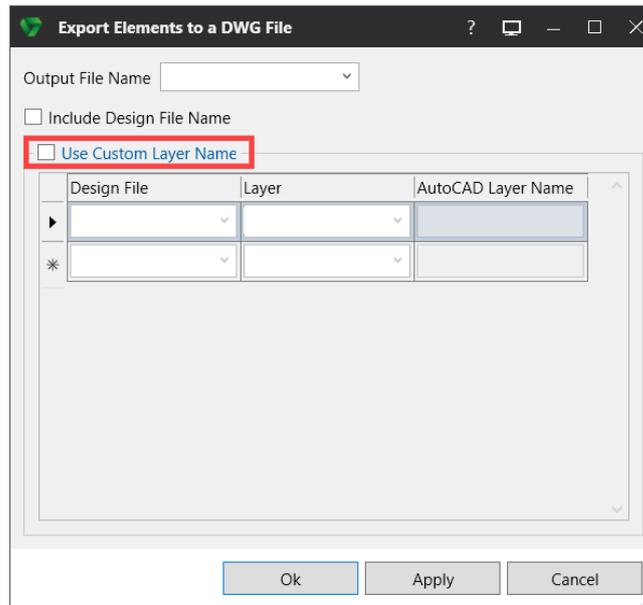


Use the right-click **Import From** option to import data from an external file format into a design file, for example, Datamine Studio, Maptek Vulcan, or AutoCAD DXF or DWG. Use the right-click **Export To** option to export data from a design file to an external file format, for example, Datamine Studio or Maptek Vulcan.

The **Include Design File Name** check box has been added to the **Export Elements to a DXF/DWG File** form. Select the **Include Design File Name** check box to include the design file name when naming the output AutoCAD layers. Clear the **Include Design File Name** check box to exclude the design file name from the output AutoCAD layer names.

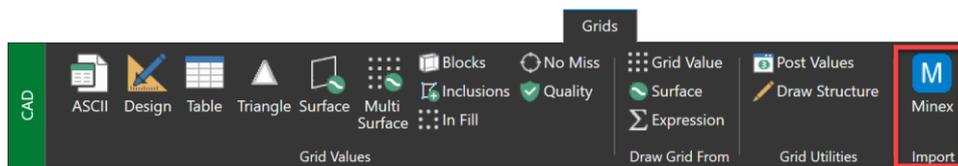


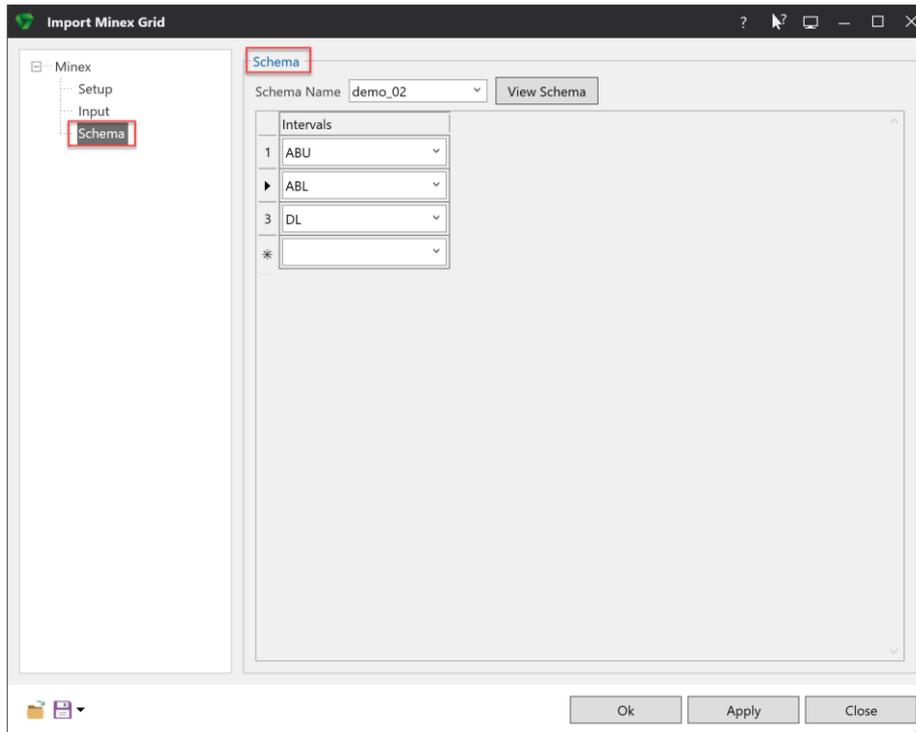
The **Use MineScope Layer Name** check box on the **Export Elements to a DXF/DWG File** form has also been renamed to **Use Custom Layer Name**. The **Export Elements to a DXF/DWG File** form is displayed after using the right-click **Save As** option.



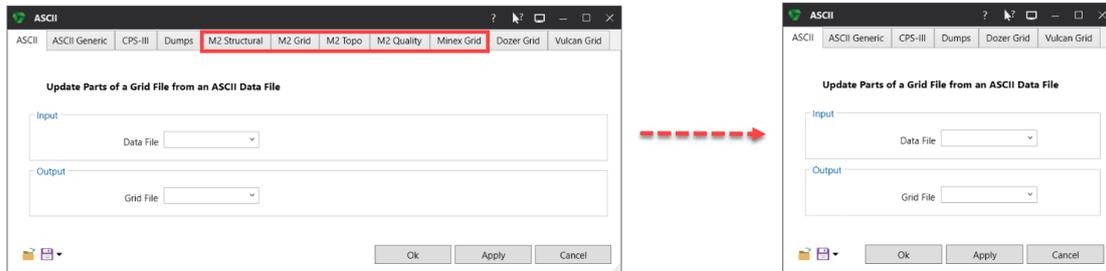
The **Minex Grid** form has been updated and renamed into the **Import Minex Grid** form. The **Import Minex Grid** form can be used to import an ASCII or Binary ECS formatted Minex file into a MineScope grid and create a schema definition.

The **Import Minex Grid** form is displayed after selecting **Import » Minex** from the **Grids** ribbon.



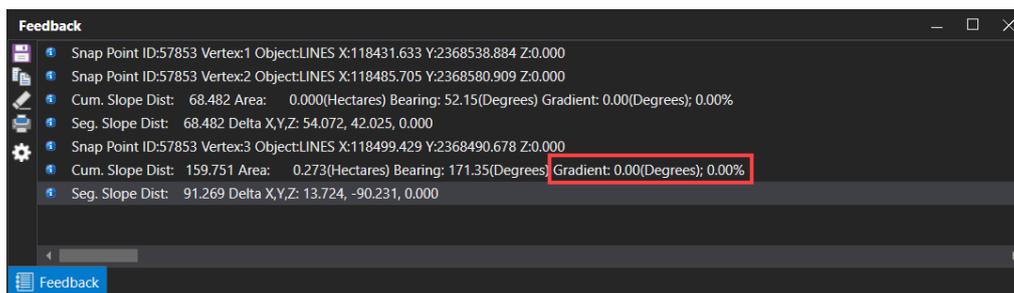


The **Import Minex Grid** form cannot be displayed via the **Explorer** tab's right-click **Import** option. The Miner 2 tabs have also been removed from the right-click **Import** option for grid files.



## Slope and Distance Enhancements

The reported gradient value is now also displayed as a percentage when the current grade units for the project are not set to 'Percent'. The current grade units for the project can be set through **File » Info** or through using the  icon on the **Properties**, **Visual Overrides**, and **Statistics** tabs.



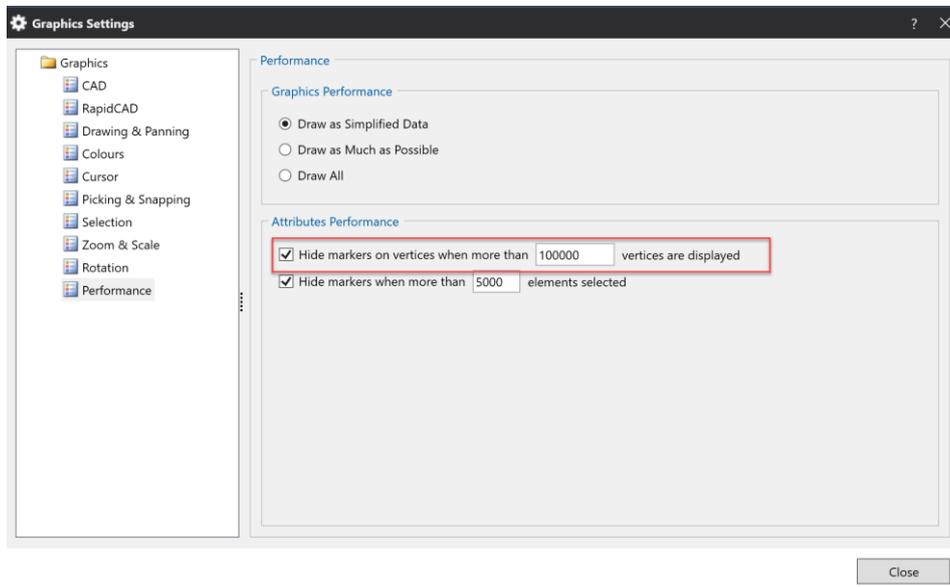
If a snapping mode is enabled, a circle icon is now used to indicate a point that can be snapped to.



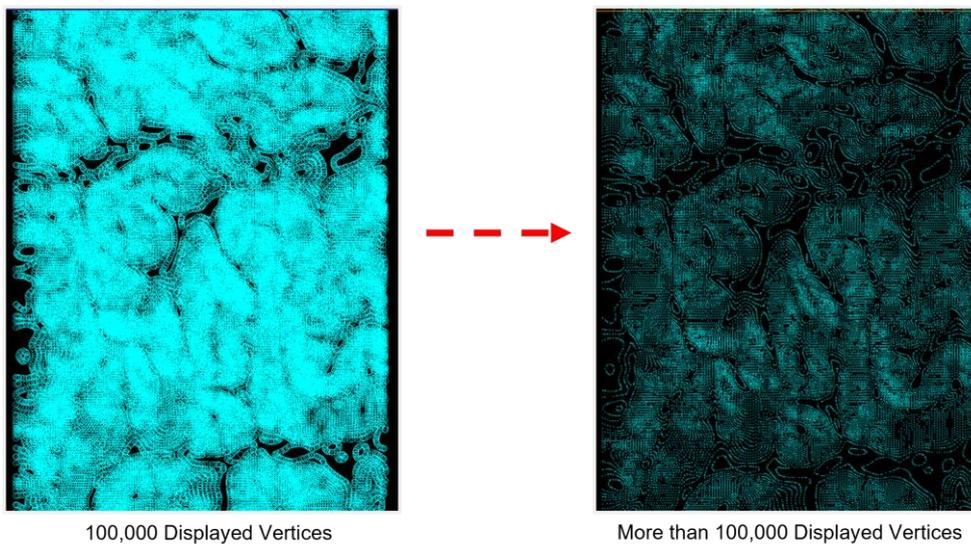
## Hide Markers on Vertices Enhancements

The **Hide Markers on Vertices** check box has been renamed to Hide markers on vertices when more than <n> vertices is displayed.

The **Hide markers on vertices when more than <n> vertices are displayed** check box can be used to disable marker display when more than <n> vertices are displayed. If the check box is cleared, the markers will be shown normally. The check box is displayed on the **Performance** node of the **Graphics Settings** form.

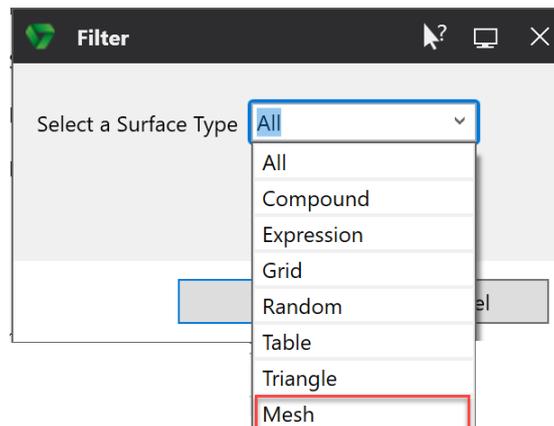
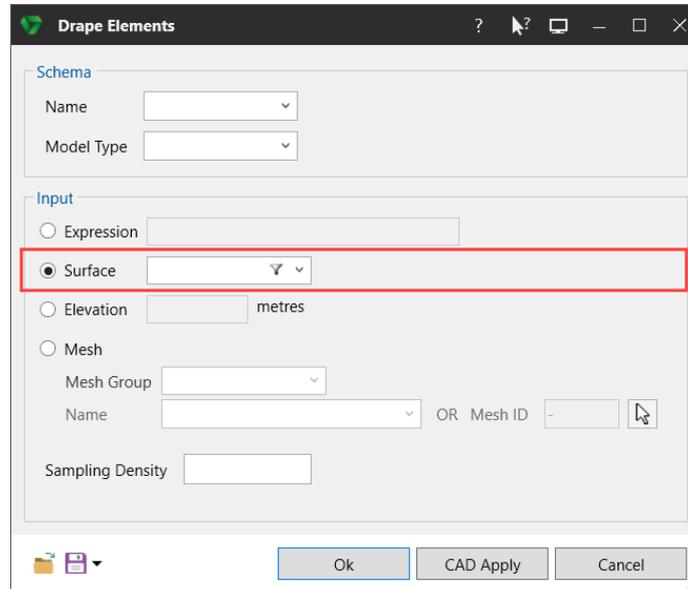


The following image is an example of output using the **Hide markers on vertices when more than <n> vertices are displayed** check box.

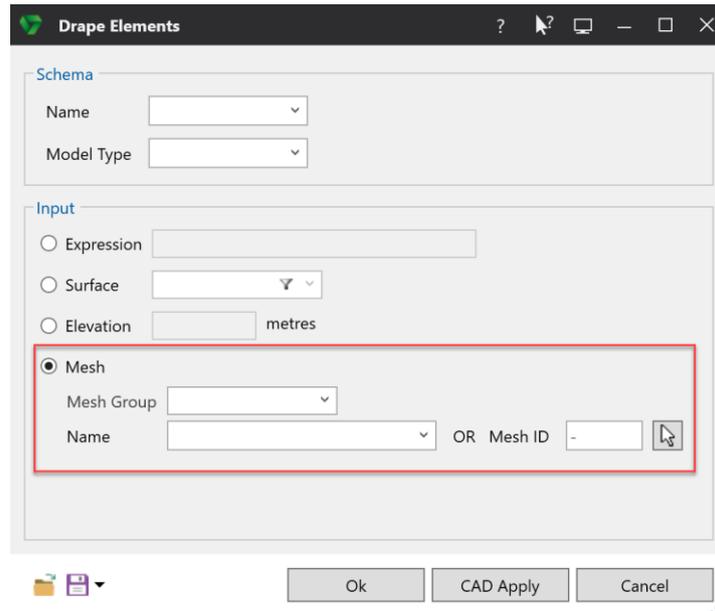


## Drape Elements Enhancements

The **Drape Elements** form can now be used to drape elements onto a mesh surface or a mesh file. To drape elements onto a mesh surface, select the **Surface** option followed by the name of the mesh surface. Surfaces can also be filtered using the new **Mesh** entry.

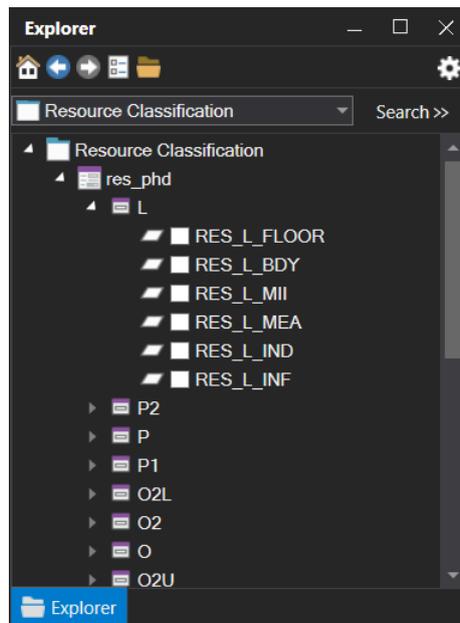


To drape elements onto a mesh file, select the **Mesh** option and nominate the mesh file. The **Mesh Group** and **Name** can be selected from the available lists or a **Mesh ID** can be supplied using the  button. efficiencies

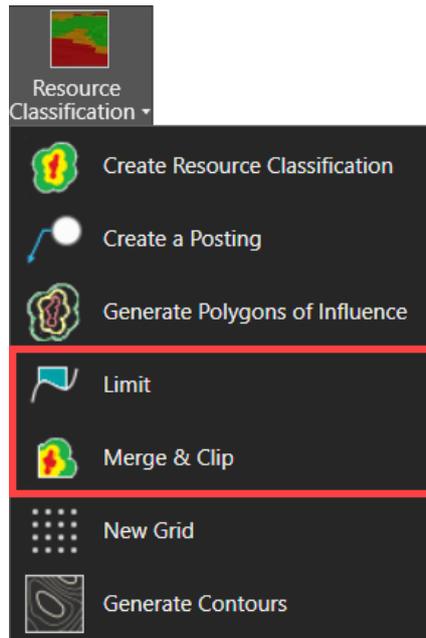


## Resource Classification Enhancements

The **Resource Classification** folder has been added to the **Explorer** tab. The new folder will list all Resource Classification specifications for the current project.



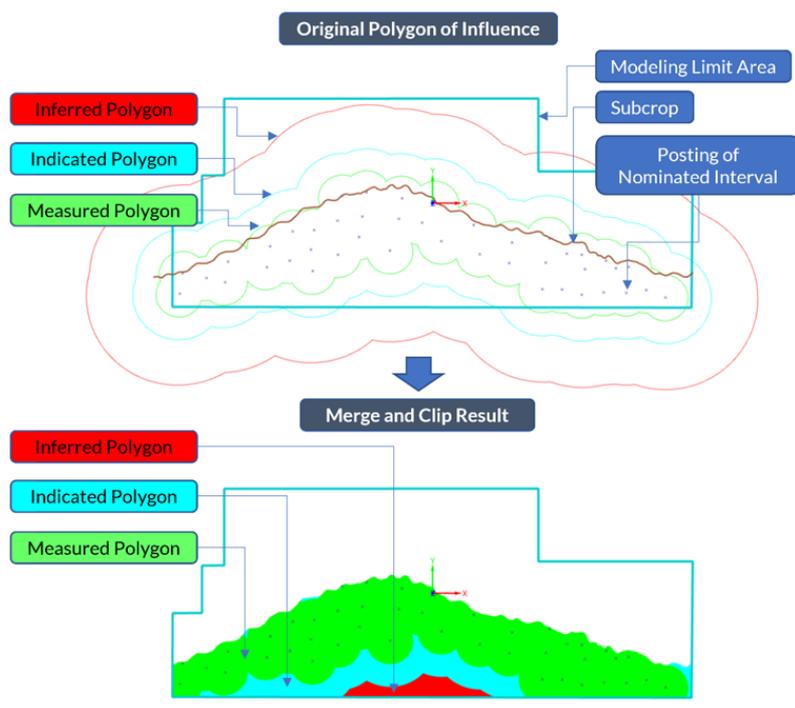
The **Limit** and **Merge & Clip** options have been added under **Geology » Resource Classification** of the **Reserves** ribbon.



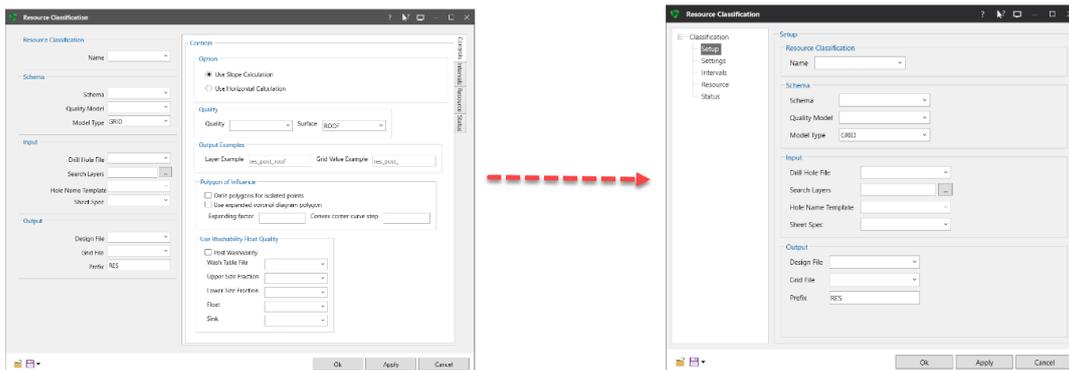
The **Limit** option can be used to generate boundaries by splitting a nominated polygon that represents a limit area or concession boundary against subcrop lines. The resulting boundary will be used to clip the polygons of influence.



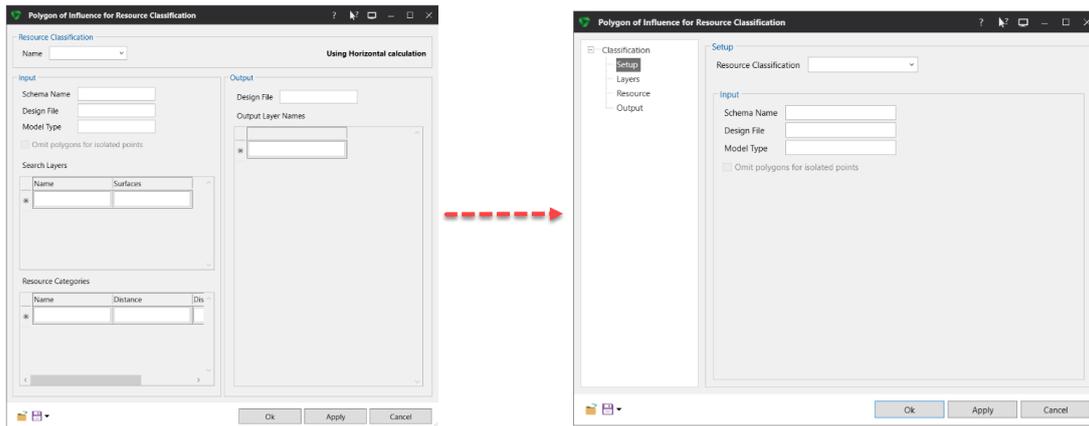
The **Merge & Clip** option can be used to merge the polygons of influence according to their respective resource categories and clip them to the nominated boundaries.



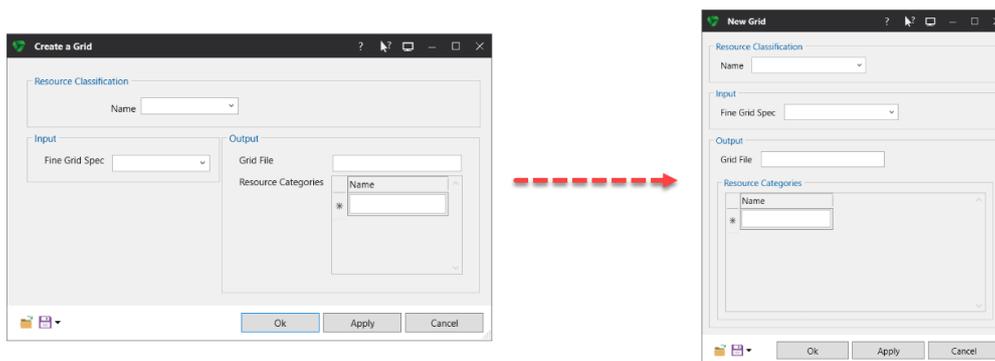
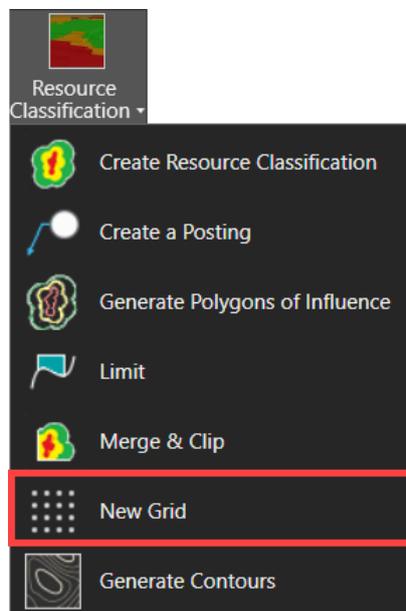
The layout of the form displayed via **Resource Classification » Create Resource Classification** has been updated and improved. The form now uses a tree-control structure instead of vertical tabs.



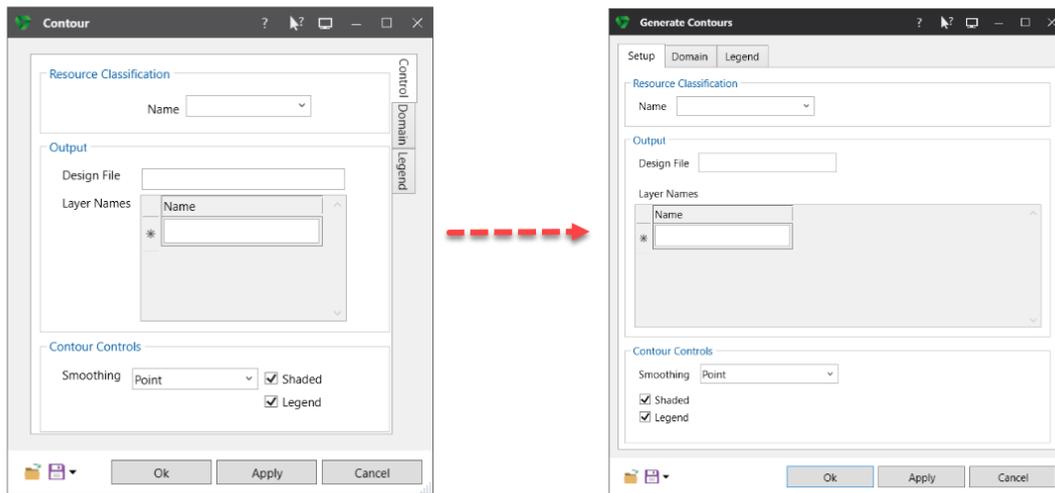
The layout of the form displayed via **Resource Classification » Generate Polygons of Influence** has been updated and improved to use a tree-control structure.



The **Resource Classification » Create a Grid** option has been renamed to **New Grid**. The layout of the displayed form has also been improved.



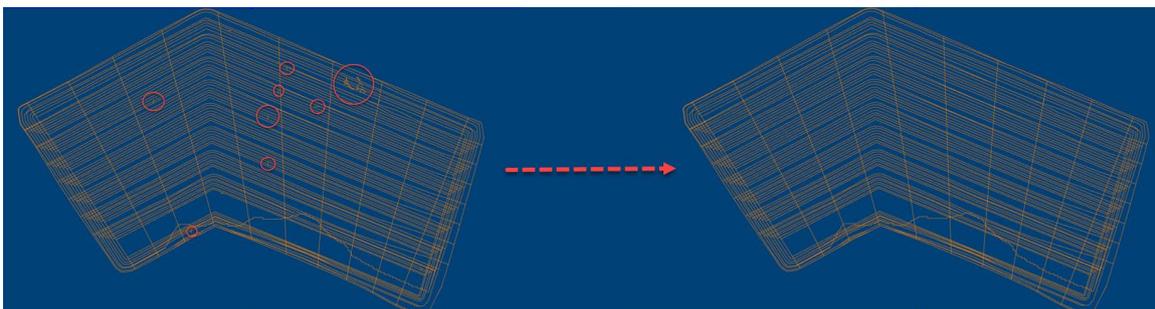
The layout of the form displayed via Resource Classification » Generate Contour has been updated and improved. The form now uses horizontal tabs instead of vertical tabs.



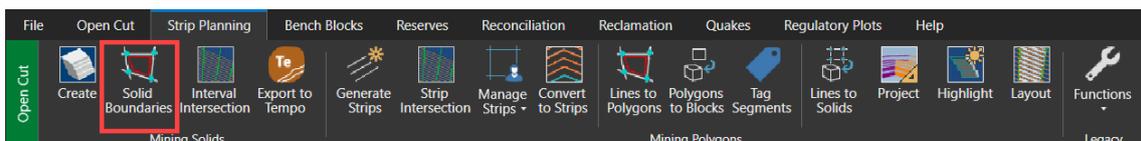
## Surface Engineering Enhancements

The process by which boundary polygons are created through the **Mining Solids » Solid Boundaries** option has been improved to greatly reduce unwanted polygons within the resulting output.

In the following example, the boundary polygons on the left right-hand side were generated using the current release of MineScape 2021 with unwanted polygons circled. The boundary polygons displayed on the right-hand side of the example were generated using MineScape 2021 Update 4.



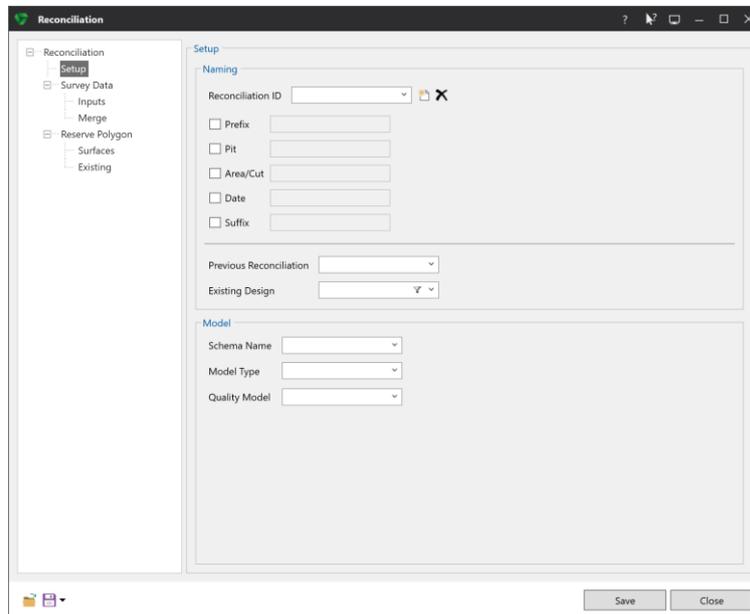
The **Mining Solids » Solid Boundaries** option is available through the **Strip Planning** ribbon.



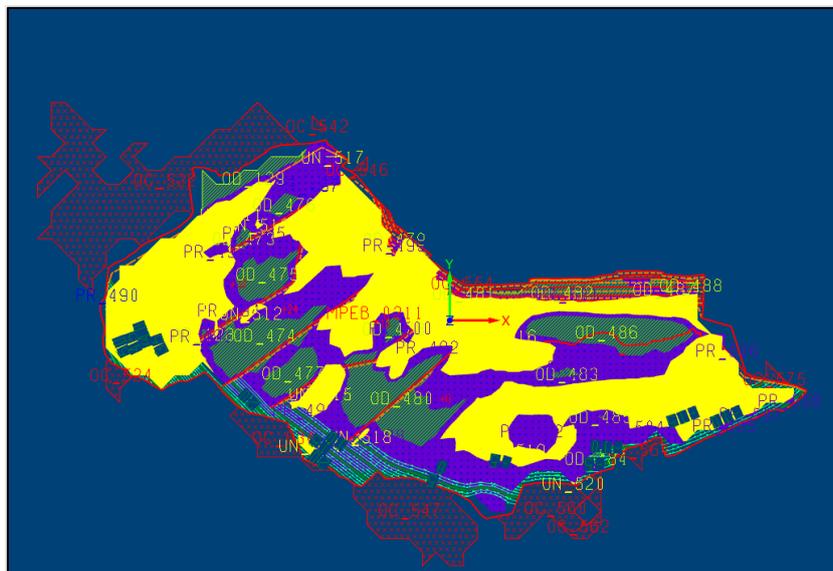
The **Reconciliation** ribbon has been added to the **Open Cut** ribbon.



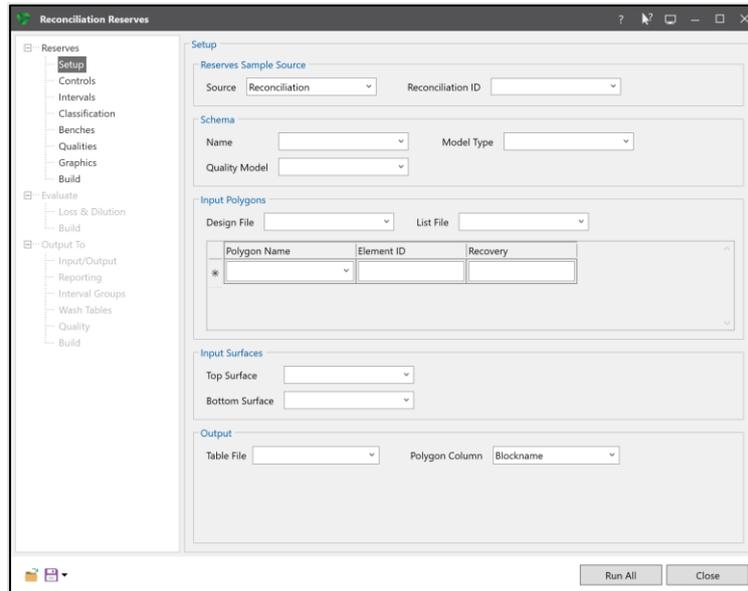
The **Run Recon** option can be used to produce reserve polygons for within, above, and below a mine design surface compared to a supplied threshold.



The following image is an example of output generated by the **Run Recon** option.



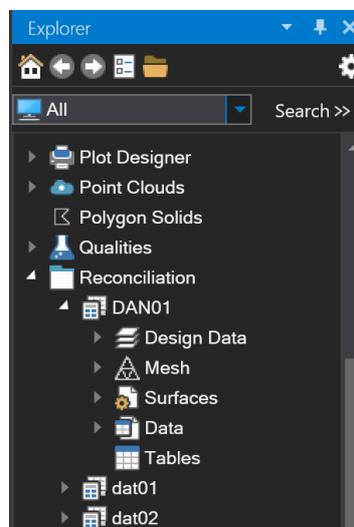
The **Run Reserves** option can be used to generate multi-part reserves for a reconciliation.



The following image is an example of output generated by the **Run Reserves** option.

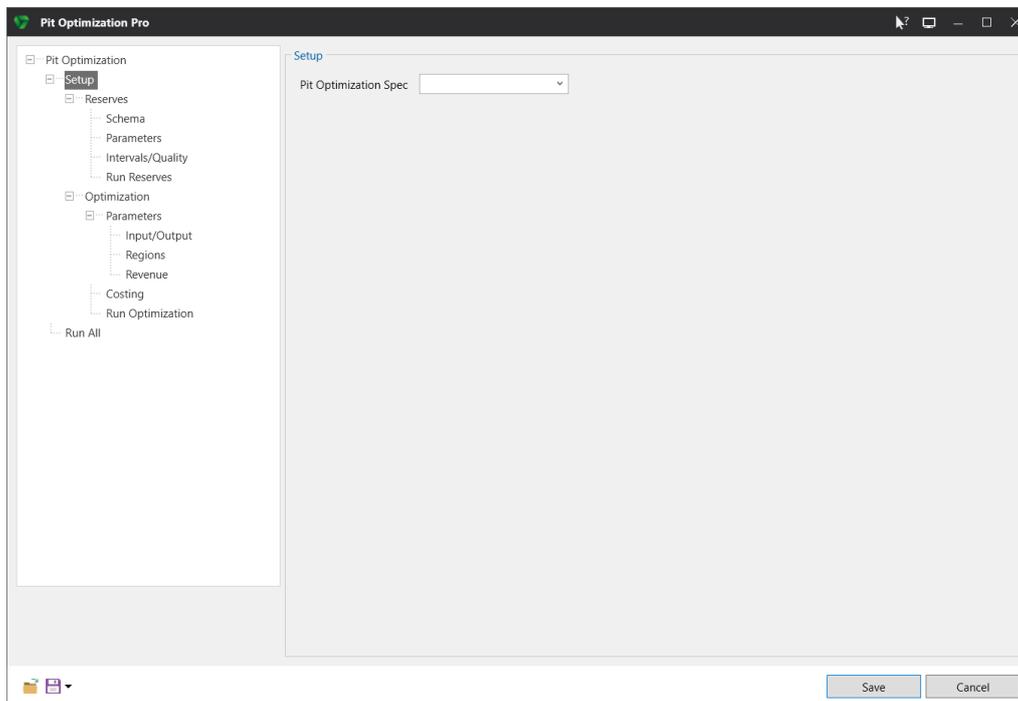
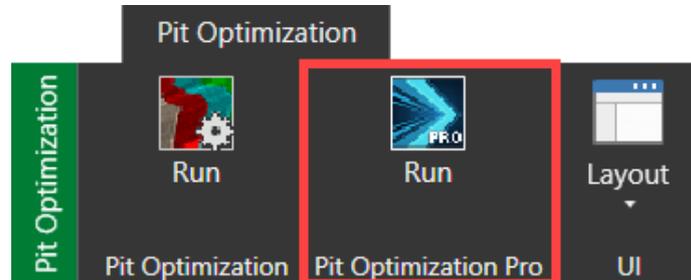
	NAME	SUBNAME_1	SUBNAME_2	SUBNAME_3	INTERVAL	INTVOLUME	INTIMASS	INTRRMASS	OVERVOLUME	INTERVOLUME	TOTBURDVOLUME
1	OC_534	OC_534	CUT	P010	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	0.07
2	OC_534	OC_534	CUT	P020	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	0.31
3	OC_560	OC_560	CUT	P000	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	0.11
4	OC_560	OC_560	FILL	P000	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	0.10
5	OC_564	OC_564	FILL	M010	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	0.14
6	OD_128	OD_128	FILL	P020	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	254.04
7	OD_128	OD_128	FILL	P030	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	186.81
8	OD_129	OD_129	FILL	P040	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	12,353.75
9	OD_129	OD_129	FILL	P050	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	16,209.38
10	OD_129	OD_129	FILL	P060	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	1,092.83
11	OD_473	OD_473	FILL	P030	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	5,034.85
12	OD_474	OD_474	CUT	P010	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	77.75
13	OD_474	OD_474	CUT	P020	UNASSIGNED	0.00	0.00	0.00	0.00	0.00	229.16

The **Reconciliation** folder has been added to the **Explorer** tab. The **Reconciliation** folder will list all generated reconciliations for the current project.



## Engineering Optimization Enhancements

The **Pit Optimization Pro » Run** option has been added to the **Pit Optimization** ribbon. The new **Pit Optimization Pro » Run** option can be used to generate an ultimate economic pit shell that takes full advantage of models created from MineScape's StratModel app.



## Washability Enhancements

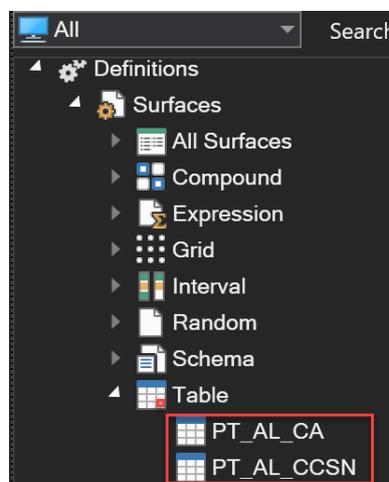
The **Washability » Compositing » Drill Holes** option has been updated. The updated **Washability » Compositing » Drill Holes** option can be used to composite washability data from a wash table file against drill holes and generate the associated surface definitions. The **Washability » Compositing » Drill Holes** option can also be used to skip samples or reject intervals that fail various thickness criteria.

The following image are examples of a table and report produced by the **Washability » Compositing » Drill Holes** option.

HOLENAME	INTERVAL	SAMPLENUMBER	EASTING	NORTHING	TOP	BASE	DATATYPE	SIZEFRACTIONLO	SIZEFRACTIONHI	SIZEYIELD	SINK	FLOAT	FLOAT/SINK_YIELD	TIME	TIME_YIELD	DOSAGE	RRD	CA	CCSN	FROM	TO
1045C	AL	*MIXTURE*	690.574.47	7.420.915.68	88.48	84.08	FLOAT/SINK	0.70	31.50	100.00	1.50	1.55	89.35				1.44	10.81	2.64	38.37	42.77
1045C	AL	*MIXTURE*	690.574.47	7.420.915.68	88.48	84.08	FLOAT/SINK	0.70	31.50	100.00	1.55	1.60	90.64				1.44	11.09	2.63	38.37	42.77
1045C	AL	*MIXTURE*	690.574.47	7.420.915.68	88.48	84.08	FLOAT/SINK	0.70	31.50	100.00	1.60	1.70	93.34				1.44	11.73	2.33	38.37	42.77
1045C	AL	*MIXTURE*	690.574.47	7.420.915.68	88.48	84.08	FLOAT/SINK	0.70	31.50	100.00	1.70	1.80	94.93				1.44	12.22	2.31	38.37	42.77
1045C	AL	*MIXTURE*	690.574.47	7.420.915.68	88.48	84.08	FLOAT/SINK	0.70	31.50	100.00	1.80	1.90	96.40				1.44	12.82	2.30	38.37	42.77
1045C	AL	*MIXTURE*	690.574.47	7.420.915.68	88.48	84.08	FLOAT/SINK	0.70	31.50	100.00	1.90	2.00	97.28				1.44	13.19	2.29	38.37	42.77
1045C	AL	*MIXTURE*	690.574.47	7.420.915.68	88.48	84.08	FLOAT/SINK	0.70	31.50	100.00	2.00	3.00	100.00				1.44	14.75	1.93	38.37	42.77
1045C	I1	1045C	690.574.47	7.420.915.68	24.38	18.47	FLOAT/SINK	0.70	31.50	100.00	1.00	1.30	15.00				1.40	3.00	9.50	102.47	108.38
1045C	I1	1045C	690.574.47	7.420.915.68	24.38	18.47	FLOAT/SINK	0.70	31.50	100.00	1.30	1.32	24.02				1.40	3.93	8.49	102.47	108.38
1045C	I1	1045C	690.574.47	7.420.915.68	24.38	18.47	FLOAT/SINK	0.70	31.50	100.00	1.32	1.35	42.20				1.40	5.80	6.50	102.47	108.38
1045C	I1	1045C	690.574.47	7.420.915.68	24.38	18.47	FLOAT/SINK	0.70	31.50	100.00	1.35	1.38	66.70				1.40	7.30	3.90	102.47	108.38

HOLE NAME	COMPOSITE INTERVAL	FROM	TO	RD	ORE	SAMPLE NUMBER	TYPE	STATUS
1045C	AL	38.37	42.77	1.435				
		38.37	39.71	1.379	Y	1045A		
		39.71	42.77	1.460	Y	1045B		
	I1	102.47	108.38	1.401				
		102.47	108.38	1.401	Y	1045C		
1046C	AL	38.79	42.85	1.398				
		38.79	40.29	1.360	Y	1046A		
		40.29	42.85	1.420	Y	1046B		
	I1	100.08	106.66	1.389				
		100.08	106.66	1.389	Y	1046C		

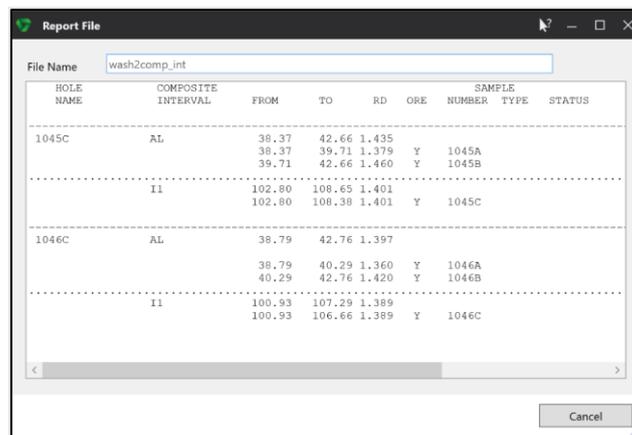
The following image is an example of surfaces generated by the **Washability » Compositing » Drill Holes** option.



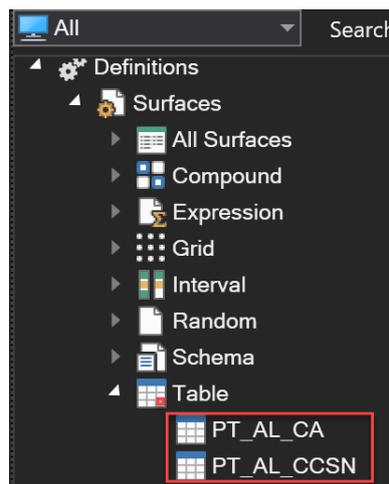
The **Washability » Compositing » Intervals** option has been updated. The updated **Washability » Compositing » Drill Intervals** option can be used to composite washability data from a wash table file against intervals at drill hole locations. Once samples have been composited, surface definitions are automatically generated. The **Washability » Compositing » Intervals** option can also be used to skip samples or reject intervals that fail various thickness criteria.

The following image are examples of a table and report produced by the **Washability » Compositing » Intervals** option.

	HOLENAME	INTERVAL	SAMPLENUMBER	EASTING	NORTHING	TOP	BASE	DATATYPE	SIZEFRACTIONLO	SIZEFRACTIONHI	SIZEYIELD	SINK	FLOAT	FLOAT/SINK_YIELD	TIME	TIME_YIELD	DOSAGE	RRD	CA	CCSN	FROM	TO
10	1045C	AL	*MIXTURE*	690,574.47	7,420,915.68	88.48	84.19	FLOAT/SINK	0.70	31.50	100.00	1.60	1.70	93.39				1.43	11.70	2.36	38.37	42.66
11	1045C	AL	*MIXTURE*	690,574.47	7,420,915.68	88.48	84.19	FLOAT/SINK	0.70	31.50	100.00	1.70	1.80	94.97				1.43	12.19	2.34	38.37	42.66
12	1045C	AL	*MIXTURE*	690,574.47	7,420,915.68	88.48	84.19	FLOAT/SINK	0.70	31.50	100.00	1.80	1.90	96.43				1.43	12.79	2.33	38.37	42.66
13	1045C	AL	*MIXTURE*	690,574.47	7,420,915.68	88.48	84.19	FLOAT/SINK	0.70	31.50	100.00	1.90	2.00	97.30				1.43	13.15	2.32	38.37	42.66
14	1045C	AL	*MIXTURE*	690,574.47	7,420,915.68	88.48	84.19	FLOAT/SINK	0.70	31.50	100.00	2.00	3.00	100.00				1.43	14.70	1.96	38.37	42.66
15	1045C	II	1045C	690,574.47	7,420,915.68	24.05	18.47	FLOAT/SINK	0.70	31.50	100.00	1.00	1.30	15.00				1.40	3.00	9.50	102.80	108.38
16	1045C	II	1045C	690,574.47	7,420,915.68	24.05	18.47	FLOAT/SINK	0.70	31.50	100.00	1.30	1.32	24.02				1.40	3.93	8.49	102.80	108.38
17	1045C	II	1045C	690,574.47	7,420,915.68	24.05	18.47	FLOAT/SINK	0.70	31.50	100.00	1.32	1.35	42.20				1.40	5.80	6.50	102.80	108.38
18	1045C	II	1045C	690,574.47	7,420,915.68	24.05	18.47	FLOAT/SINK	0.70	31.50	100.00	1.35	1.38	66.70				1.40	7.30	3.00	102.80	108.38
19	1045C	II	1045C	690,574.47	7,420,915.68	24.05	18.47	FLOAT/SINK	0.70	31.50	100.00	1.38	1.40	77.10				1.40	8.00	3.60	102.80	108.38



Once samples have been composited, surface definitions are automatically generated. The following image is an example of surfaces generated by the **Washability » Compositing » Intervals** option.



---

## Defects Fixed

### #23956 - Current drawing attributes change after text edit

Problem: The current drawing attributes change after editing a text element.

### #31687 - Tooltip incorrectly displayed

Problem: The line weight tooltip for the **Properties Editor** is displayed incorrectly.

### #32647 - Tooltip incorrectly displayed

Problem: Tooltip still displayed onscreen even after exiting the option.

### #33495 - Module feedback incorrectly shown as successful

Problem: Mesh import feedback incorrectly shown as successful after importing invalid Datamine files.

### #34654 - Thumbnails not created and saved

Problem: Thumbnail image for point cloud data is not created and saved.

### #35340 - Layer names not included in output

Problem: Layer names not included in output after selecting **Data Exchange » Export » Drill Holes** from the **StratModel** ribbon.

### #35350 - Error in stratigraphic model

Problem: Error in stratigraphic model when there are transgressive seams.

### #35356 - Contour legend does not fit within rectangle

Problem: The resulting contour legend does not fit within the extents of the nominated rectangle.

### #35379 - Message displayed for offline help

Problem: MineScape incorrectly displays a message about the offline help being out of date. This issue only occurs when offline help has been installed for both MineScape 7 and MineScape 2021.

### #35408 - Scale bar hidden from view

Problem: The scale bar container is hidden from view when the 'Background' colour setting is being used.

### #35414 - Message displayed for offline help

Problem: MineScape incorrectly displays a message about the offline help being out of date. This issue only occurs when offline help has been installed for both MineScape 7 and MineScape 2021.

### #35497 - MineScape crashes when opening a layer with corrupted elements

Problem: MineScape crashed when attempting to open a layer with corrupted elements from a design file.

### #35499 - Old report templates being used

Problem: The reporting options under the **StratModel** and **Reserves** ribbons are using report templates with the Datamine logo.

### #35534 - Spec name automatically changes

Problem: The file name automatically changes to the lith type when editing the spec name.

### #35535 - Missing status prompts

Problem - Status prompts missing when using Clipboard » Format Painter on the **Home** ribbon.

### #35551 - Error message displayed

Problem: An error message is displayed after running **Rapid Update » Just In-Time DTM** from the **Open Cut** ribbon. This issue only occurs when using a design file that contains a large number of lines.

### #35554 - Admin ribbon is disabled for some users

Problem: The **Admin** ribbon is disabled for some GDB users.

### #35567 - Dragline keys not working

Problem: Dragline hotkeys are not working when pressed.

### #35608 - An error appears when opening form

Problem: MineScape crashes and an error message is displayed after selecting **Reserves » Evaluate » Mining Reserves**.

### #35636 - Unable to start MineScape

Problem: Unable to start MineScape. This issue only occurs when using different region settings.

### #35643 - Unable to select Sections node

Problem: Unable to select the **Sections** node through **Geological Model » Cross Section** of the **StratModel** ribbon. This issue only occurs when using MineScape with the Russian language setting.

### #35645 - Error displayed when setting current model

Problem: An error message is displayed after setting the current model type to 'Grid' through **Schema » Set Model** of the **StratModel** ribbon. This issue only occurs when using MineScape with the Russian language setting.

### #35653 - Statistics issue when database contains many projects

Problem: Statistics issue when the GDB database contains many projects.

### #35724 - Faults sorting issue

Problem: Faults with the same era not honouring input order when sorting.

### #35773 - Profile viewport covers previous open viewport

Problem: When using **Development » Extrude Drive** from the **Underground** ribbon, the resulting profile viewport is fully displayed and cover the previous open viewport. This issue only occurs when using MineScape with the Polish language setting.

### #35791 - StratModel form issues

Problem: Unable to use the right-click **Pick** option in the **Design File** field. Drop-down list also missing from Name field.

### #35811 - Memory consumption issue in Plot Designer

Problem: Memory consumption issue for table container in Plot Designer. MineScape appears to pause and is unresponsive, This issue only occurs after modifying the font size for the table container.

### #35838 - Unable to add custom icons

Problem: Unable to add custom icons to custom ribbon.

### #35852 - Button missing from Geostatistics form

Problem: The **Generate** button is missing from the **Edit Study** form. This issue only occurs when using MineScape with the Russian language setting.

### #35856 - MineScape crashes when running Geostatistics

Problem: MineScape crashes when running Geostatistics. This issue only occurs when using MineScape with the Russian language setting.

### #35897 - RapidCAD vertex move issue

Problem: Unable to successfully select a vertex when multiple elements are displayed under the mouse cursor.

### #35915 - Different font size displayed through print preview

Problem: Different font size displayed through print preview when using a different DPI setting. The text in the PDF file is bigger than in Plot Designer when the Windows DPI setting is greater than 100%.

### #35963 - Performance issue when drawing a line

Problem: Noticeable lag when drawing a line while a large number of drill hole layers are displayed through the CAD window.

### #35993 - Different icon used for custom toolbar

Problem: Drop-down menu sent to custom toolbar uses a different icon than custom ribbon.

### #36045 - Mesh surface not recognized by block model categorization

Problem: Mesh surface not recognized by block model categorization.

### #36046 – Unable to use batch functionality

Problem: Grid kriging function does not support batch functionality.

### #36048 – Trace elements table deleted

Problem: Trace elements table deleted after updating sample advice.

### #36048 – Upgrade popups incorrectly displayed

Problem: Popup message to upgrade the GDB database appears even after a failed login.

### #36083 – Dynamic corridor not working

Problem: Dynamic corridor slicing tool is not create a cutting section.

### #36084 - Cursor does not change

Problem: Mouse cursor does not change from drag cursor to resize cursor. This issue only occurs after creating a measured viewport.

### #36206 – Run reserves form issue

Problem: The filtered mesh list does not show the proper list after changing the mesh group.

### #36229 - Unable to move vertex

Problem: Unable to move vertex within CAD window. Issue only occurs when quickly clicking and dragging while many layers are loaded.

### #36240 – Unable to move element

Problem: Unable to move element within CAD window. Issue only occurs when quickly clicking and dragging while many layers are loaded.

### #36254 – MineScape crashes after right-clicking in fields

Problem: MineScape crashes after right-clicking in two different fields.

### #36298 – Drop-down lists incorrectly updates

Problem: Drop-down lists incorrectly updates before changes are committed.

### #36308 – Temporary cursor remains in CAD window

Problem: Temporary cursor remains in CAD window after cancelling element move.

### #36309 – Performance issues when opening mesh files

Problem: Noticeable performance issue when opening a number of mesh files while multiple elements are selected through the CAD window.

### #36310 – Performance issue when displaying vertex markers for elements

Problem: Noticeable performance issue when trying to display vertex markers for elements in the CAD window.

### #36382 – Section surface issue

Problem: The SURFSECTION module fails when trying to generate surface section lines.

### #36408 – Unable to use latest ODBC drivers

Problem: Unable to use the latest ODBC drivers (version 18).

### #36416 – Performance issue with mesh import form

Problem: Noticeable performance issue when trying to open the **Mesh Import** form.

## #36431 – Unable to populate fields on mesh import form

Problem: Unable to populate the point and triangle file lists on the **Mesh Import** form.

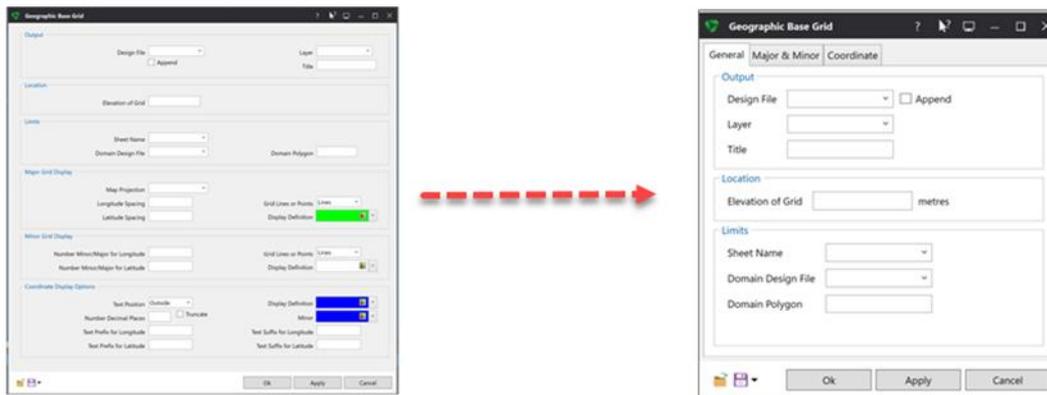
# MineScape 2021 Update 3

The following section lists the new functionality, features and defect corrections delivered with MineScape 2021 Update 3.

## What's New CAD

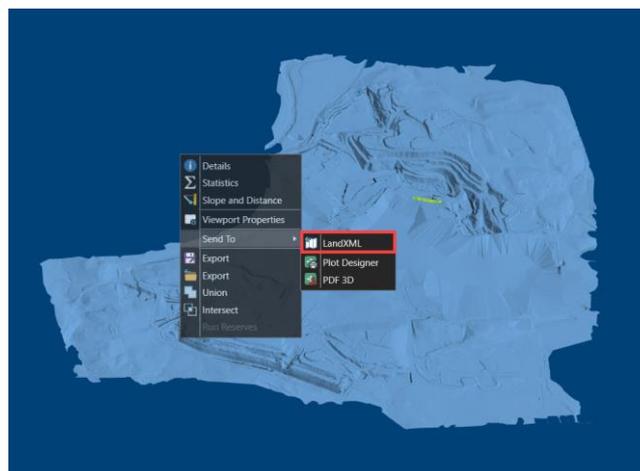
### Improved CAD Forms

The appearance and layout of numerous forms have been upgraded and improved to provide a better user experience.

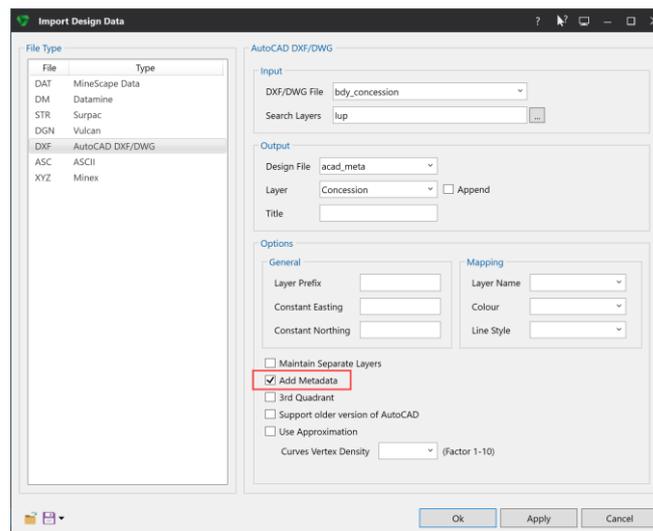


### Data Transfer Enhancements

Design file and mesh file data displayed through the CAD and Paper Window can now be exported to a LandXML file. The new **Send To » LandXML** option can be accessed by right-clicking in either the CAD or Paper Window. The resulting XML file is saved under the data folder of your current project.



The **Add Metadata** check box has been added to the **AutoCAD DXF/DWG** node of the **Import Design Data** form.



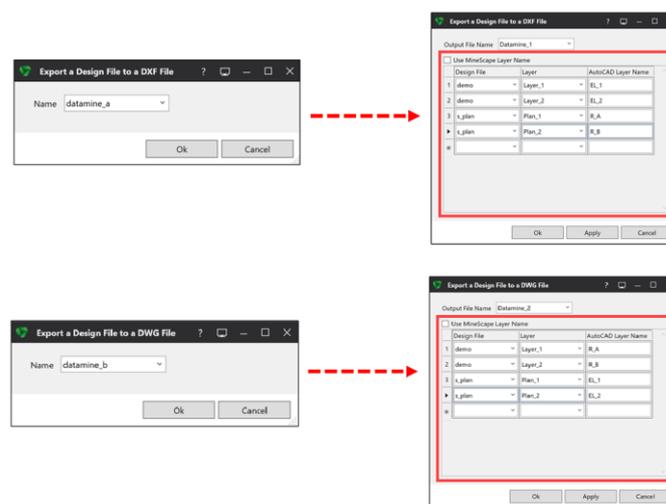
When the **Add Metadata** check box is selected, elements imported into MineScape will include two additional metadata fields under the **Metadata** section of the **Properties** tab - **Autocad Name** and **Autocad Layer**.

- **Autocad Name** - The file path for the AutoCAD DXF/DWG file.
- **Autocad Layer** - The original layer name from the AutoCAD DXF/DWG file.

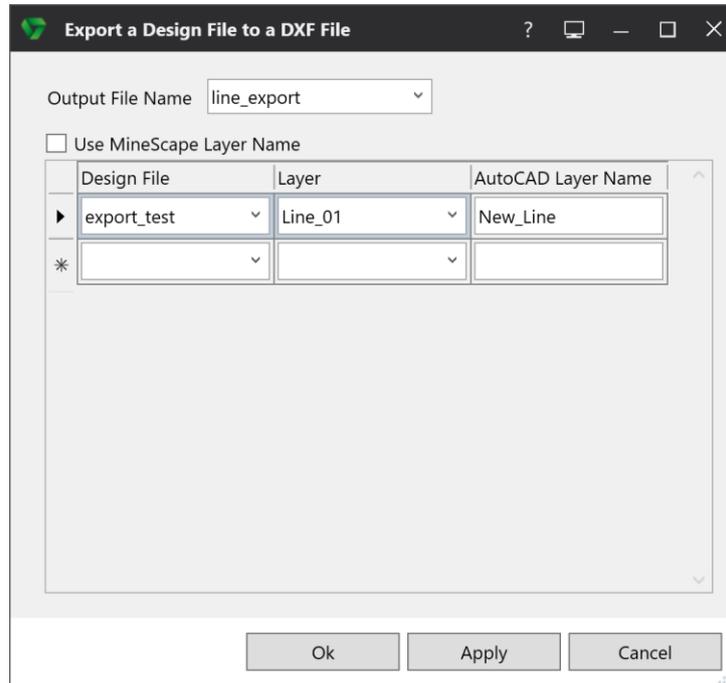
Metadata	
Group	
Autocad Name	autocad\bdy_concession.dxf
Autocad Layer	IUP

**Note:** The output design file must use the extended design file format in order to apply metadata tags to the imported elements. Selecting the **Add Metadata** check box will increase the time needed to complete the import as metadata tags need to be assigned to each element imported.

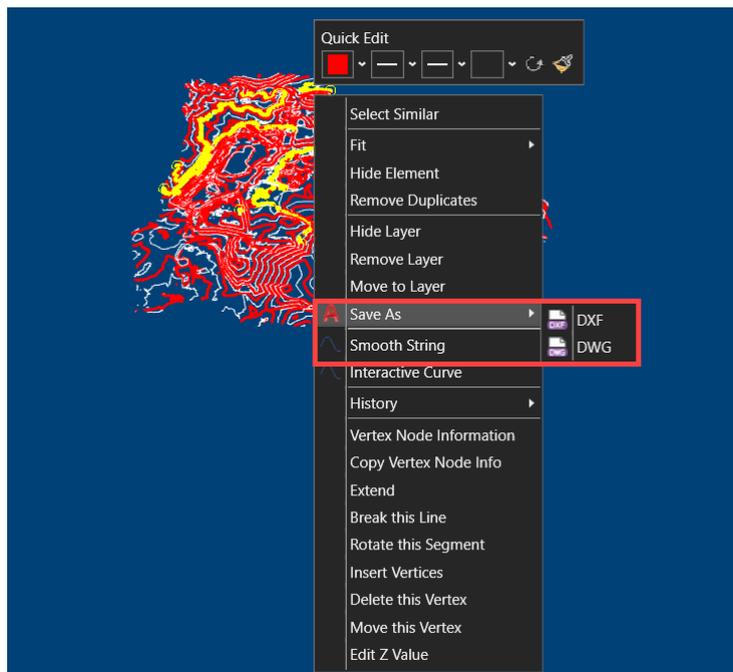
The **Export a Design File to a DXF File** and **Export a Design File to a DWG File** forms have been updated to include the ability to customise the names of the output AutoCAD layers.



Select the **Use MineScape Layer Name** check box to use the MineScape layer name(s) when naming the resulting AutoCAD layer(s). Clear the **Use MineScape Layer Name** check box to assign custom names to the resulting AutoCAD layers. In the following example, the custom layer name of 'New\_Line' is assigned to the output AutoCAD layer.



The **Export a Design File to a DXF File** and **Export a Design File to a DWG File** forms are displayed after using the right-click **Save As » DXF/DWG** option on selected layer in a design file.

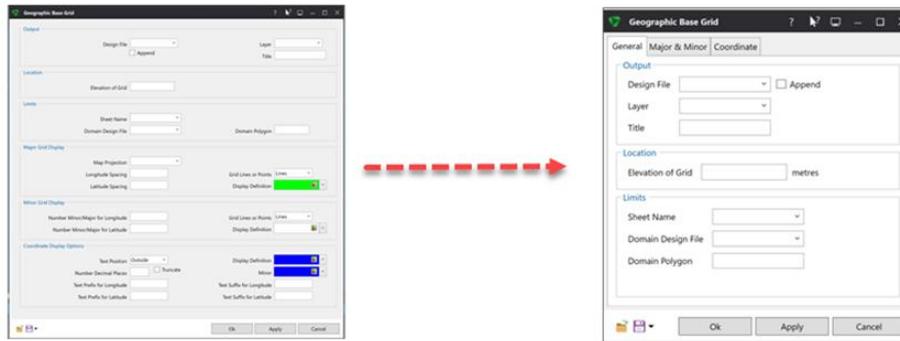


The **Save As** option can be accessed by right-clicking on highlighted layers through the **Explorer** tab or by right-clicking on highlighted references through the **Display** tab.

## Geology

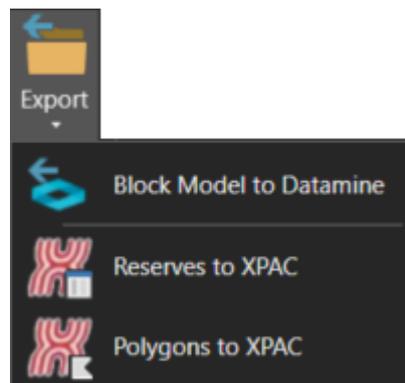
### Improved StratModel Forms

The appearance and layout of numerous forms have been upgraded and improved to provide a better user experience.

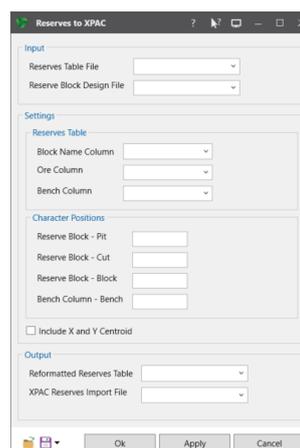


### Block Model Enhancements

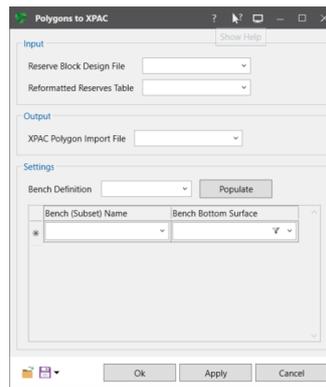
The **Reserves to XPAC** and **Polygons to XPAC** options have been added to the **Data Exchange » Export** group of the **Output** ribbon.



- **Reserves to XPAC** - Create a CSV file containing reserving numbers suitable for import into XPAC.

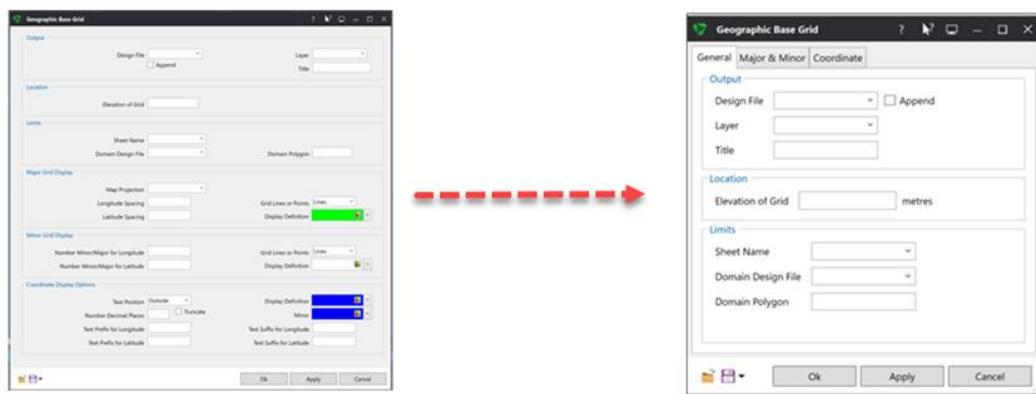


- **Polygons to XPAC** - Create a CSV file containing reserving polygons suitable for import into XPAC.



## Improved GDB Forms

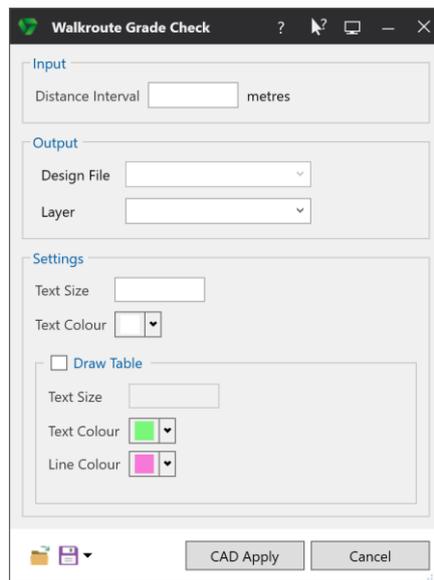
The appearance and layout of numerous forms have been upgraded and improved to provide a better user experience.



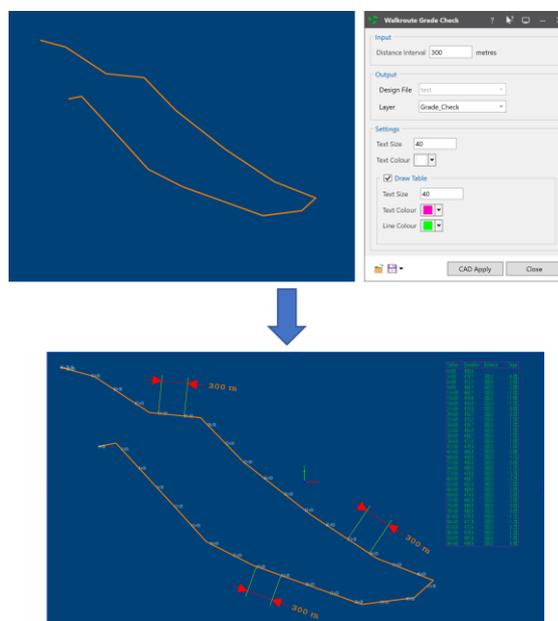
# Surface Engineering

## Open Cut Enhancements

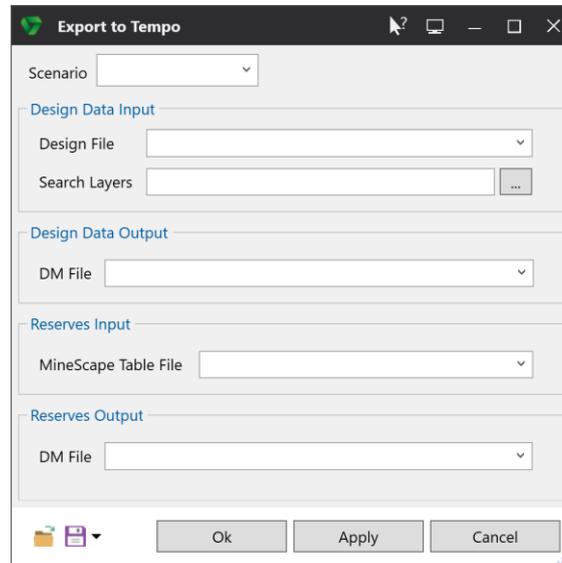
The **Walkroute Grade Check** option has been added to the **Graphics** section of the **Open Cut** ribbon.



The **Walkroute Grade Check** option can be used to create station numbers on a selected element. The stations numbers are created using a specific distance interval and a slope percentage is generated between the station numbers (segmented). The station numbers are created as text elements and saved into the current design file.



The **Export to Tempo** option has been added to the **Mining Solids** group of the **Strip Planning** ribbon.

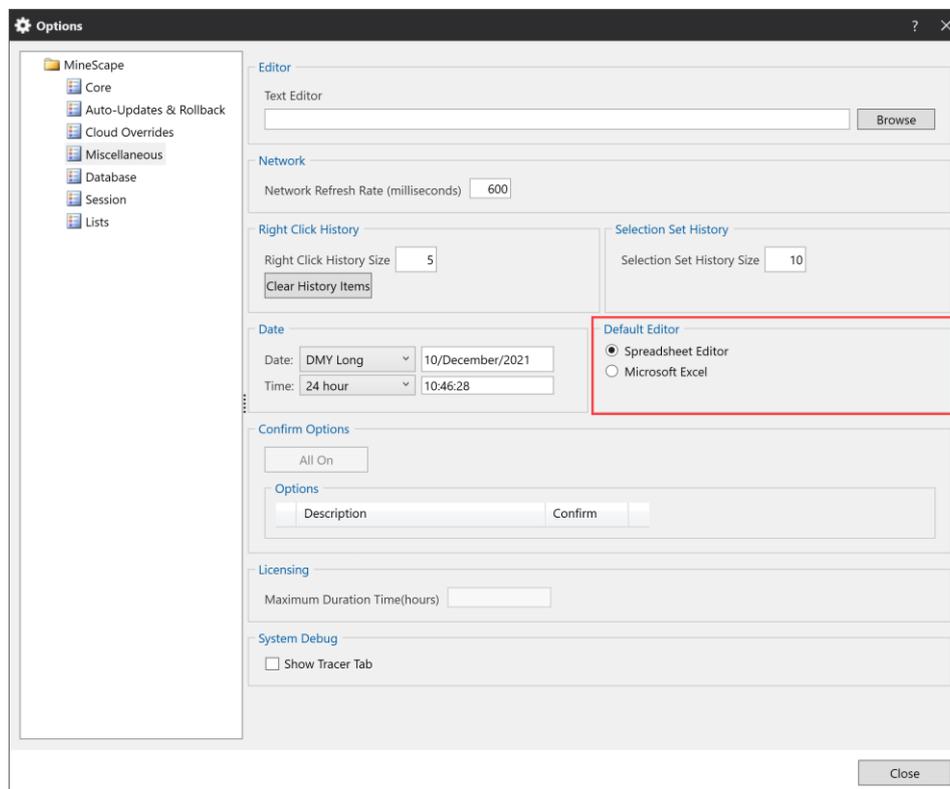


The **Export to Tempo** option can be used to export mining block layers and reserve table files to table files that can be used by Minemax Tempo.

## Updated Settings

### Default Editor for Microsoft Excel Files

The **Default Editor** section has been added to the **Miscellaneous** node of the **Options** form. This new section can be used to configure the default editor to use when opening Microsoft Excel spreadsheet files. Spreadsheet files can either be loaded through the **Spreadsheet Editor** (the default) or Microsoft Excel.



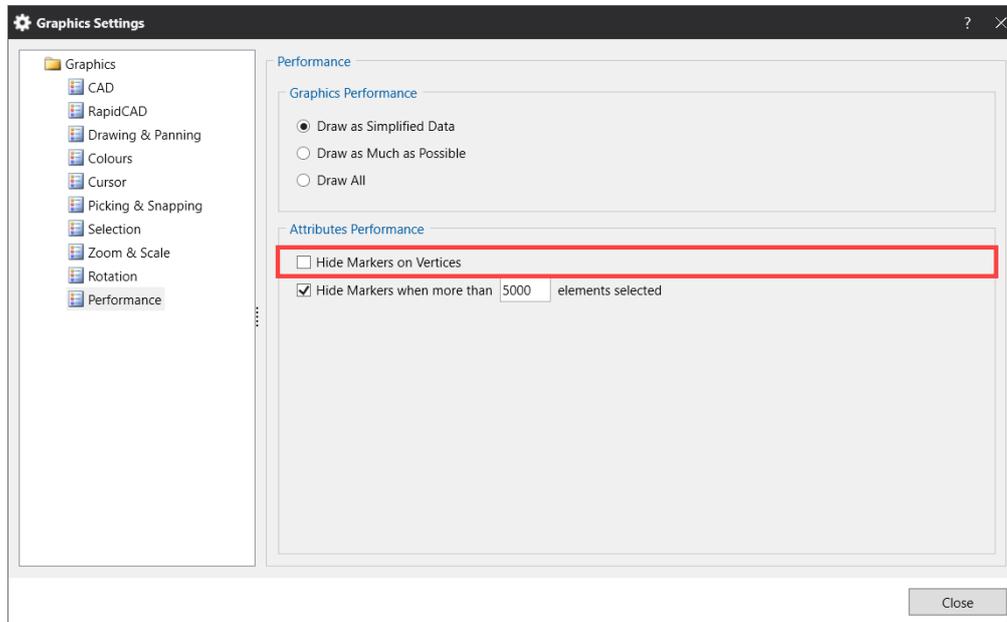
Once the default editor has been set, the  or  button is available within applicable **Report File** and **Excel File** fields on displayed forms. Click the  button to open a spreadsheet file through the **Spreadsheet Editor**. Click the  button to open the spreadsheet file through Microsoft Excel.



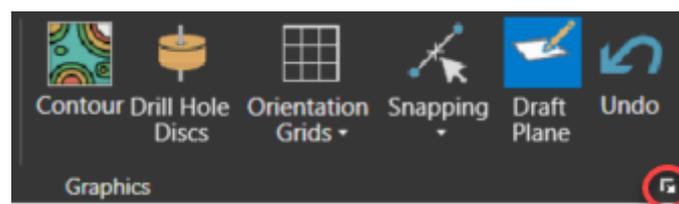
The **Options** form can be accessed through **File » Options** or by clicking the  icon on the **System** toolbar.

## Hide Markers on Vertices

The **Hide Markers on Point Elements** check box has been renamed to **Hide Markers on Vertices**. The check box is displayed on the **Performance** node of the **Graphics Settings** form.

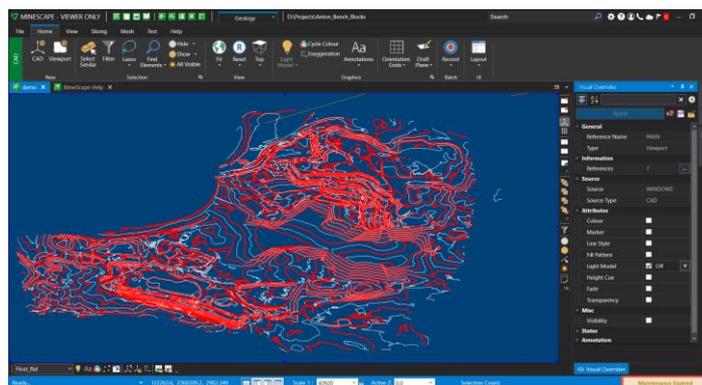


The **Graphic Settings** form can be accessed through clicking the  icon from the **Graphics** group of the **Home** ribbon.



## Expiring Licenses

Warnings for an expiring license are now colour coded. Warnings are displayed through the **Start Page** and the bottom right corner of MineScope.



The yellow **Maintenance Expired** warning message indicates that MineScope will continue to work, however, certain apps may not be able to auto-update. For example, if the CAD app is affected, the message will indicate that auto-updates will be disabled. If an app other than CAD is affected, the message will indicate that the app will cease to work if any updates are installed. The **Maintenance Expired** warning message is applicable to the Permanent license type.

The red **License Expiring** warning message will indicate that MineScope will stop working once the expiry date is reached. The **License Expiring** warning message is applicable to the Temporary, Expiring and Subscription-based license types.

**Note:** In the event that both Permanent and Expiring types are present in the licence file, the Expiring licence types take precedence.

The **Remind Me Later** and **Dismiss** options are available through the list control on the displayed warning message.



- **Remind Me Later** - Hide the warning message for two days, at which point it will be displayed again.
- **Dismiss** - Hide the warning message for 30 days.

## Microsoft Windows 11 Support

MineScape 2021 now supports Microsoft Windows 11.

## Custom App Upgrades

Due to backend changes implemented during the development of MineScape 2021 Update 3, existing custom app installations need to be removed and reinstalled using updated installers. The latest custom app installers can be downloaded directly from the MineScape software distribution portal.

## Defects Fixed

### #32981 - Able to access content menu through read-only field

Problem: Able to access the right-click context menu through the **Grid Spec** field on the **Interval Intersection** form. Field is read-only and context menu should not be accessible.

### #33305 - RapidCAD purple dot icon changing position

Problem: RapidCAD's purple dot icon changing position when modifying the rotation point.

### #33498 - Invalid mesh file created

Problem: An invalid mesh file is created when importing multiple mesh files while the **Generate Individual Files** check box is cleared.

### #33512 - Error when downgrading design file

Problem: An error occurs when attempting to downgrade a design file that does not contain a layer.

### #34324 - Unable to locate duplicate points

Problem: Unable to locate and delete duplicate points using **Repair Data » Remove Duplicate Points** on the **Design** ribbon.

### #34420 - Exception error displayed on start-up

Problem: An exception error is displayed when starting up MineScape.

### #34443 - Feature articles and news lists are truncated

Problem: The **Feature Articles** and **News** list are truncated when using high display resolutions and DPI (dots per inch) settings.

### #34591 - Height cue visual override not working

Problem: The **Out of Bounds Data** option is not working as expected when using the **Height Cue** visual override. Data displayed using the **Shadow** option even when using another available option.

### #34603 - Unable to retrieve column names

Problem: Unable to retrieve column names through **Setup » Quality Parameters** on the **Quality** ribbon.

### #34607 - Incorrect build SQL statement

Problem: Incorrect build SQL statement.

### #34640 - Unable to open notification

Problem: Unable to open and view MineScape notification.

### #34720 - Unable to view list of formspecs in subfolder

Problem: Unable to view list of formspecs in subfolder.

### #34747 - Hidden elements visible after editing

Problem: Previously hidden elements is visible after editing an element.

### #34778 - Display definition missing

Problem: Display Definition column missing from Geological Model » Contour on the StratModel ribbon.

### #34800 - Dragging image does not highlight selected polygon

Problem: Dragging an image into the CAD window does not highlight the selected polygon.

### #34842 - Hollow fill behaving incorrectly for grids

Problem: Hollow fill visual override behaving incorrectly for grids.

### #34849 - Unable to use bottom northing and bottom easting

Problem: Unable to use bottom northing and bottom easting when importing quality data.

### #34850 - Unable to merge resource classification polygon

Problem: Unable to merge polygons of influence when using horizontal calculation.

### #34866 - Design file to DXF/DWG origin issue

Problem: Design file to DXF/DWG origin issue. Results don't match MineScape CAD.

### #34895 - Warning message displayed after clicking OK

Problem: Warning message displayed after clicking **OK** on the output report file name.

### #35101 - Unable to draw element to layer

Problem: Unable to draw element after layer opened through **Short Range Planning** form.

### #35133 - Error appears when saving drill hole

Problem: An error appears when saving a drill hole through **Drill Hole Edit** form.

### #35177 - Unable to use colour selection dialog

Problem: Unable to select a colour from the colour selection dialog on the **Contour** form.

# MineScape 2021 Update 2

The following section lists the new functionality, features and defect corrections delivered with MineScape 2021 Update 2.

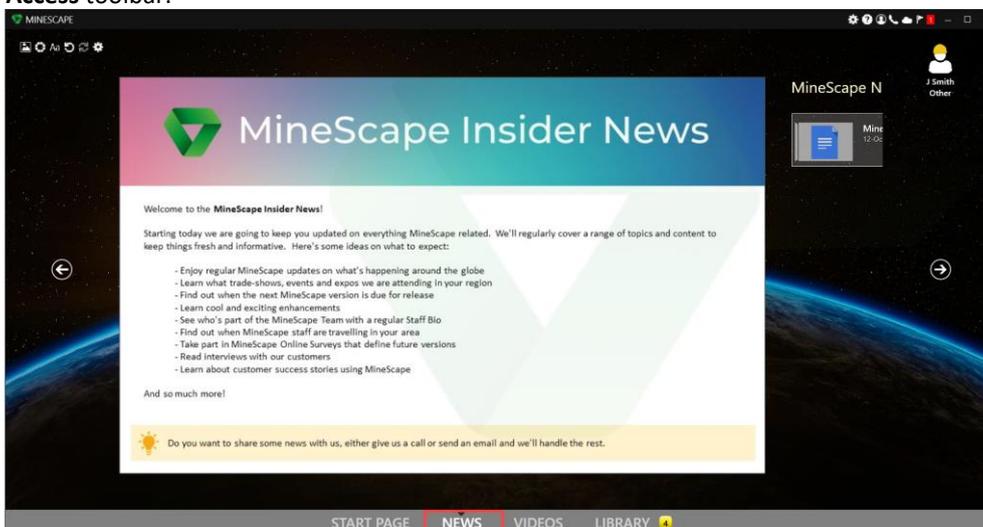
## What's New CAD

### Start Page Enhancements

The selection icons and buttons on the **Start Page** are now always displayed.

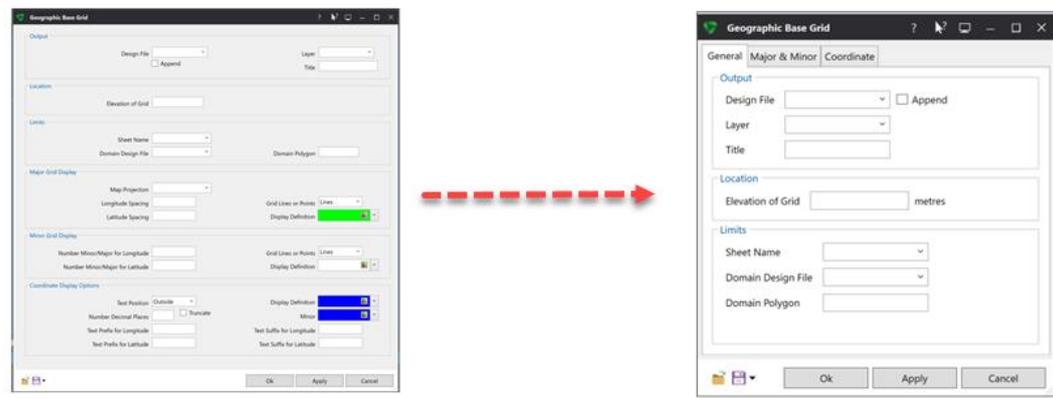


The **News** section has been added to the **Start Page**. The **News** section can be used to access **MineScape Insider News** articles. The **News** section can also be accessed through the **File** menu and via the new icon on the **Quick Access** toolbar.

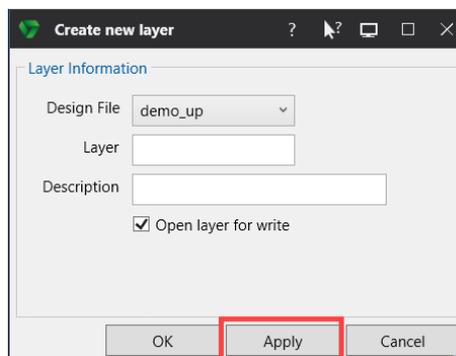


## Improved CAD Forms

The appearance and layout of numerous forms have been upgraded and improved to provide a better user experience.



An **Apply** button has been added to the **Create New Layer** form.

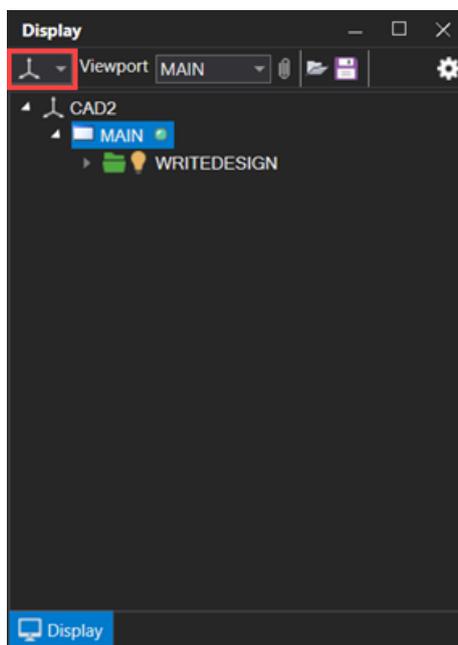


## Explorer Tab Enhancements

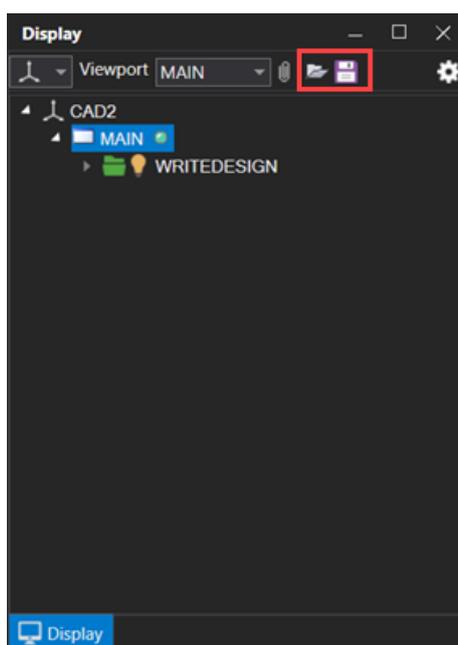
The **Explorer** tab's right-click **Import** and **Export** options have been removed. These options were displayed after right-clicking on a design file. The right-click **Import** option, which was displayed after right-clicking on a layer, has been renamed to **Transfer Data**.

## Display Tab Enhancements

View filtering options for the **Display** tab are now available through a list.



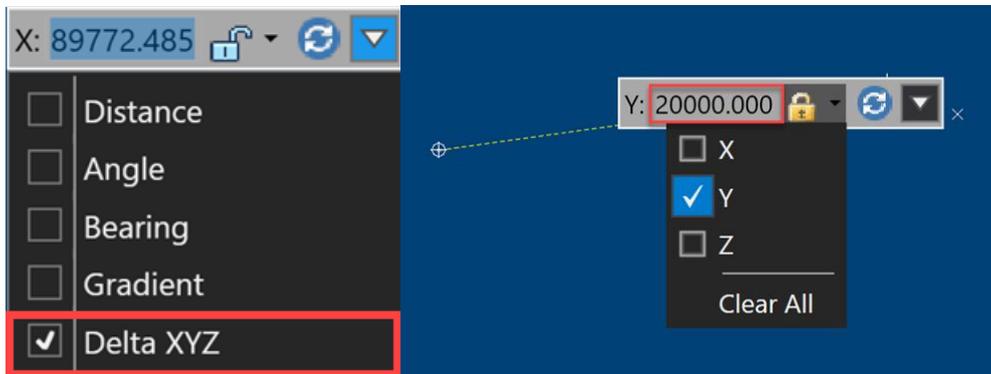
Layers listed through the **Display** tab can now also be saved and loaded from a display list file using the new  and  icons.



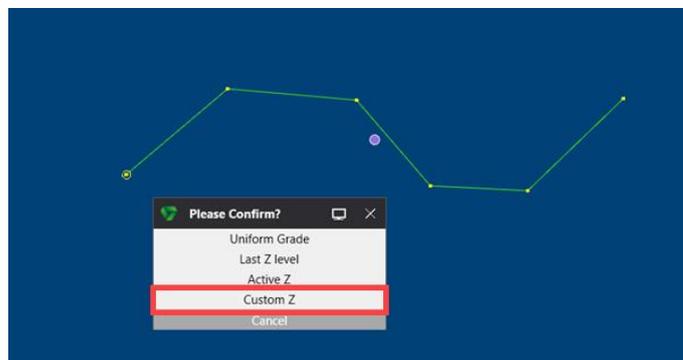
Click the  icon to save the current list of loaded layers to a display list file (.lst). Display list files are stored under the **displaydock** folder of the current project. Click the  icon to load a previously displayed list of layers from a display list file (.lst). Visual overrides applied when a list of loaded layers is saved are retained when the display list file is loaded.

## RapidCAD Enhancements

The **Delta XYZ** option has been added to **RapidCAD's Quick Input Box** list. The **Delta XYZ** can be used to determine specific delta X, Y, or Z distance values from the previous point to a nominated point or line segment.

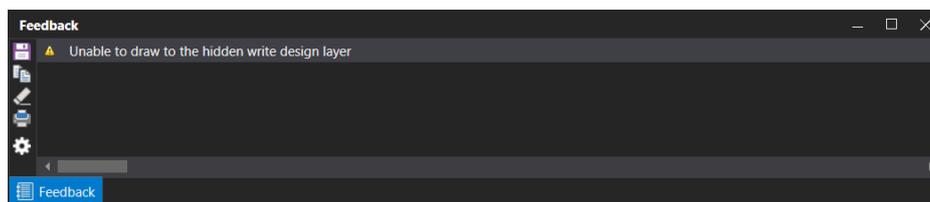


A custom Z value can now be applied when inserting vertices through the **RapidCAD** tool.



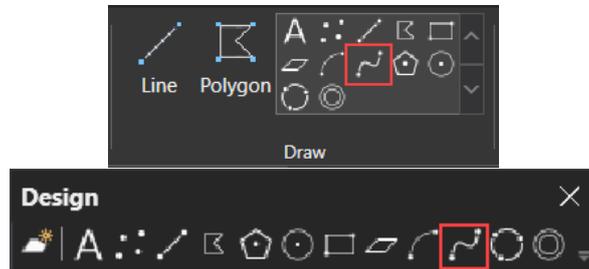
## Warning for Hidden Write Layer

A warning message is now displayed through the **Feedback** tab when attempting to create an element within the current write design layer that has been hidden from view.



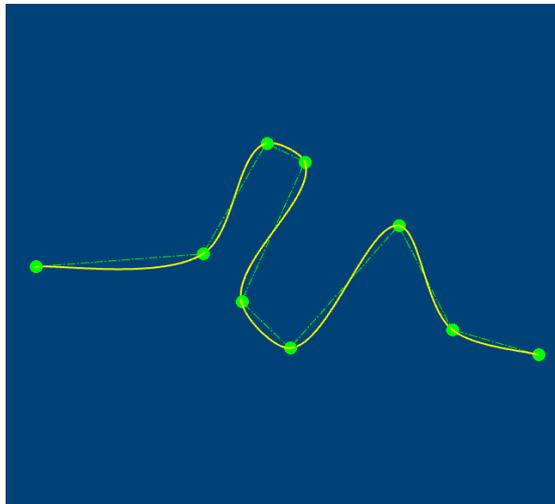
## New Cubic Spline Tool

The **Cubic Spline** option has been added to the **Draw** group of the **Home** ribbon. The **Draw Cubic Spline** icon has also been added to the **Design** toolbar.



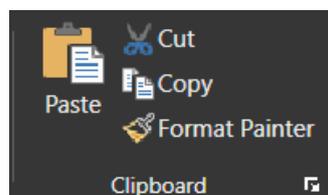
The **Cubic Spline** option can be used to create a smoothed curve that passes through a set of predefined points within the CAD window. A single curved line can contain up to 4,094 points. The element is assigned the 'LINES' object class and created using the default attributes.

In the following example, the green element represents the position of the predefined points with the yellow element representing the resulting smooth curved line.



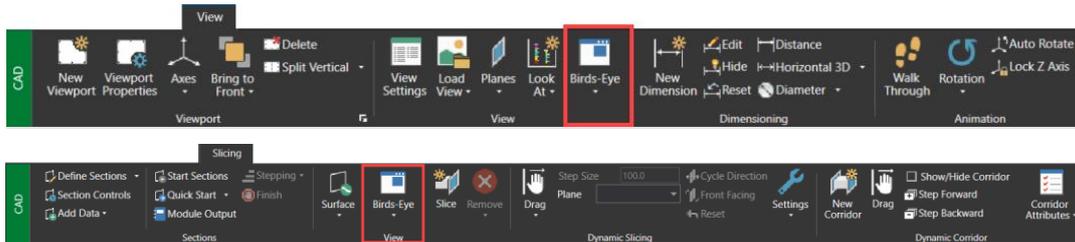
## Copy and Paste Enhancements

The **Clipboard** » **Copy** and **Paste** options on the **Home** ribbon now support the ability to copy and paste on drill hole, poly3D, and fault objects.

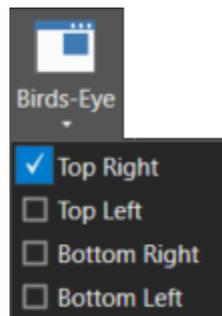


## Bird's-Eye Window Enhancements

The **Birds-Eye** option on the **View** and **Slicing** ribbons is now a toggle option that can be used to hide and display a bird's-eye window for the current on CAD Window.

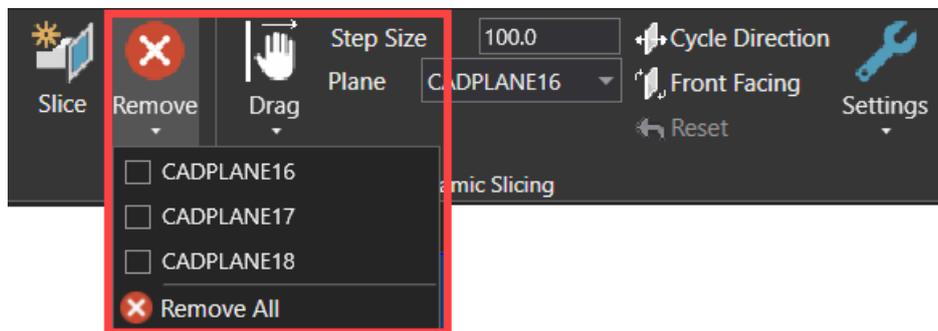


Placement options are also available underneath the **Birds-Eye** option.



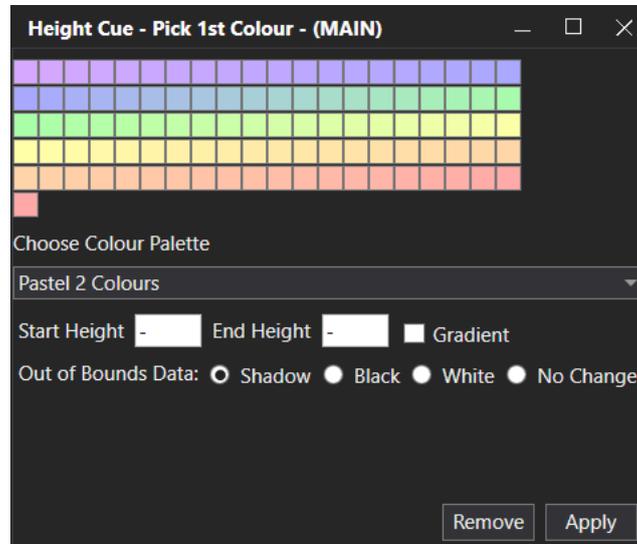
## New Remove Option for Dynamic Slicing

The **Remove** option has been added to the **Dynamic Slicing** group of the **Slicing** ribbon. The **Remove** option can be used to remove a loaded slice plane from the CAD window. Select the slice plane to remove from the displayed list or select **Remove All** to remove all loaded slice planes.



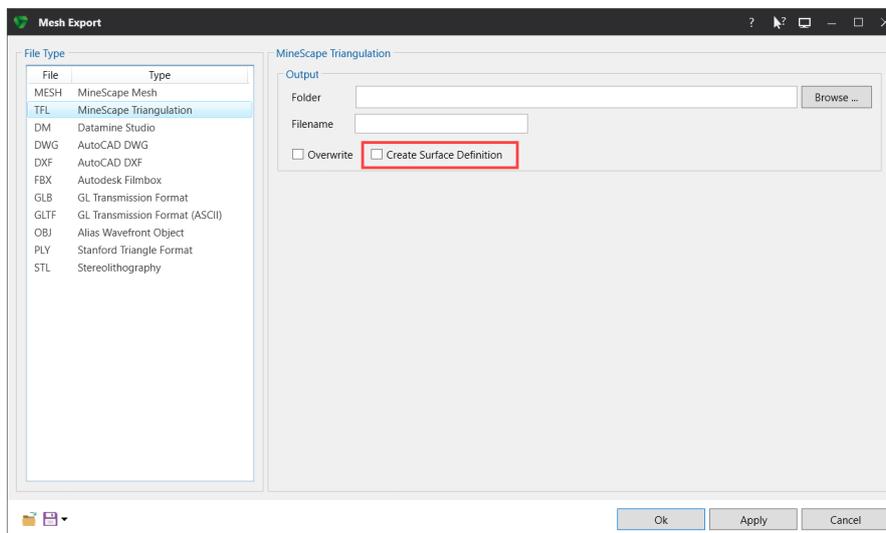
## New Height Cue Colour Palette

The 'Pastel2 Colours' entry added to the **Height Cue** dialog. The **Height Cue** dialog is displayed when applying height cue colouring through the **Visual Overrides** tab.

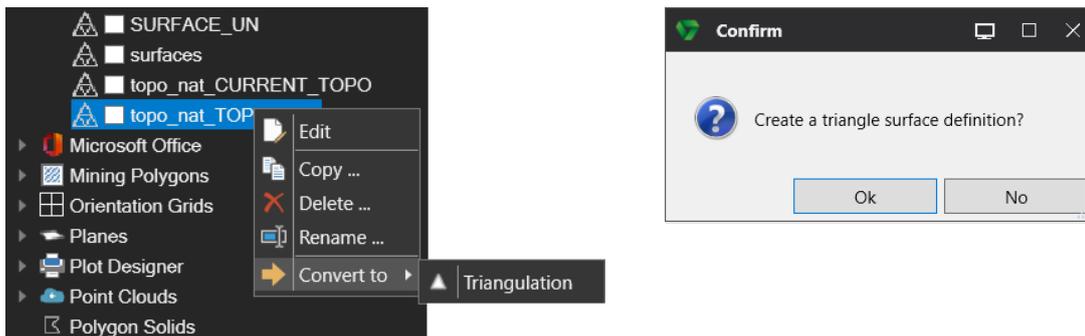


## Mesh Enhancements

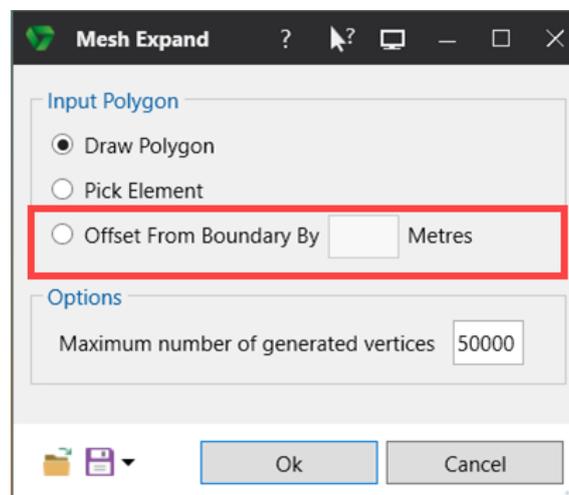
The **Create Surface Definition** check box has been added to the **MineScape Triangulation** node of the **Mesh Export** form. Select the **Create Surface Definition** check box to create a triangle surface definition when exporting a mesh file to the legacy triangulation format. The resulting surface definition is named after the output triangulation file.



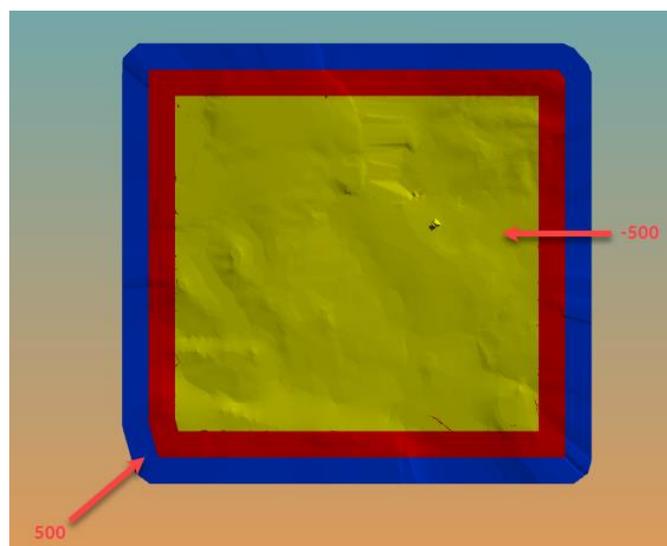
A prompt whether to create a surface definition is also displayed when using the **Explorer** tab's right-click **Convert To » Triangulation** option. Surfaces are listed under the **Definitions » Surfaces** folder of the **Explorer** tab.



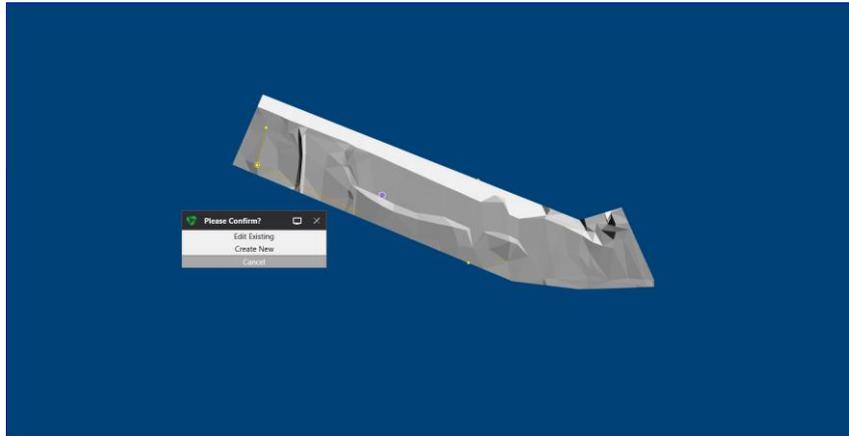
The **Surface Mesh » Expand** option on the **Mesh** ribbon can now expand or shrink an existing mesh file by a nominated distance. Enter a positive value to expand an existing surface mesh, and a negative value to shrink the surface mesh.



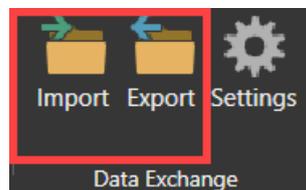
In the following example, the original mesh file along with the expanded and shrunken mesh files are displayed. The original mesh file is coloured red while the expanded mesh is coloured blue and the shrunken mesh yellow.



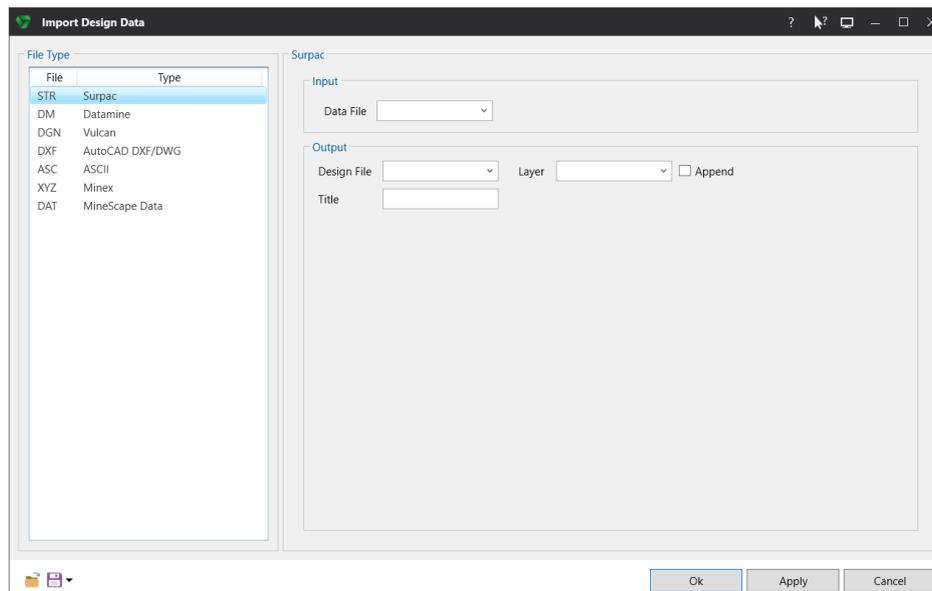
The **Surface Mesh » Register** option on the **Mesh** ribbon now displays a confirmation prompt after selecting the elements to register from the CAD window. Select **Edit Existing** to update the Z-values of the nominated elements. Select **Create New** to create new elements within the current write layer.



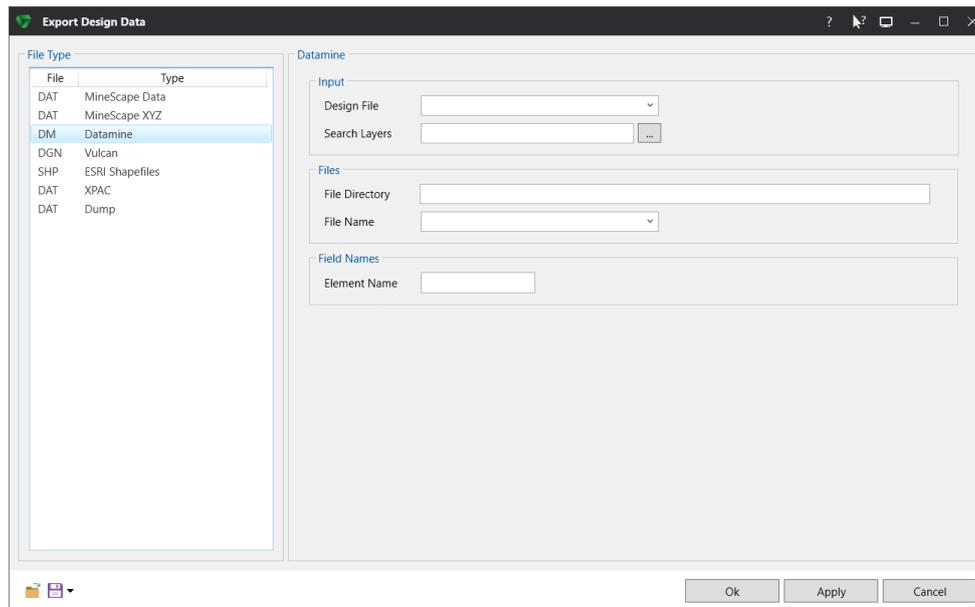
## Data Exchange Enhancements



The **Data Exchange » Import** option now displays the **Import Design Data** form. The **Import Design Data** form can be used to import data from an external source into a MineScape design file.

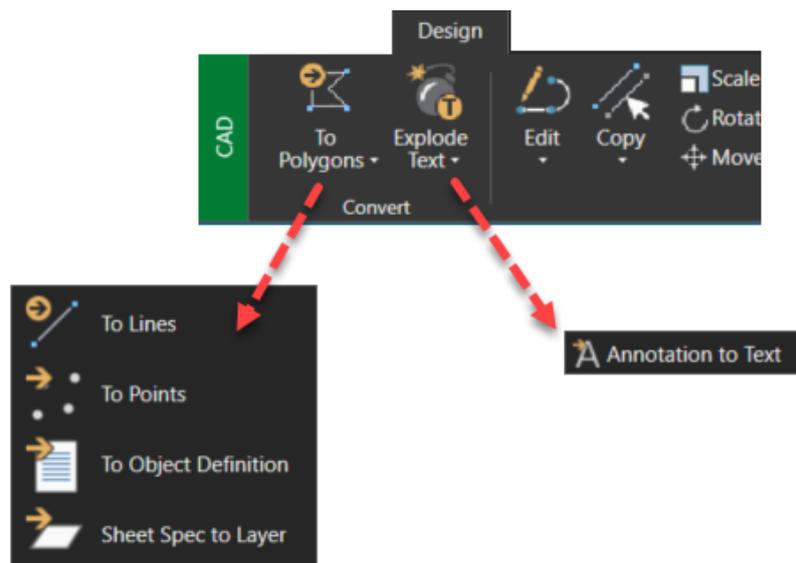


The **Data Exchange » Export** option now displays the **Export Design Data** form. The **Export Design Data** form can be used to export data from a MineScape design file to an external file.



## Custom Ribbon Enhancements

The **Explode to My Ribbon** option has been added to the right-click customisation options. Some ribbons within MineScape contain a list of *parent* and *child* options that are accessible after clicking on the arrow control under the *parent* option name. An example of this functionality is the **Convert** group of the **Design** ribbon which contains two parent options (**To Polygons** and **Explode Text**) with nested child options.



In previous versions, right-clicking on the **To Polygons** option and selecting **Add Option to My Ribbon** would result in the **To Polygons** option and all options underneath it (**To Lines**, **To Points**, **To Object Definition**, and **Sheet Spec to Layer**) being added to the custom ribbon as shown below.



Expanding the list and right-clicking on child option before selecting **Add Option to My Ribbon** would add that specific option to the custom ribbon. In the following example, the **Add Option to My Ribbon** option was accessed by right-clicking on the **To Points** option.



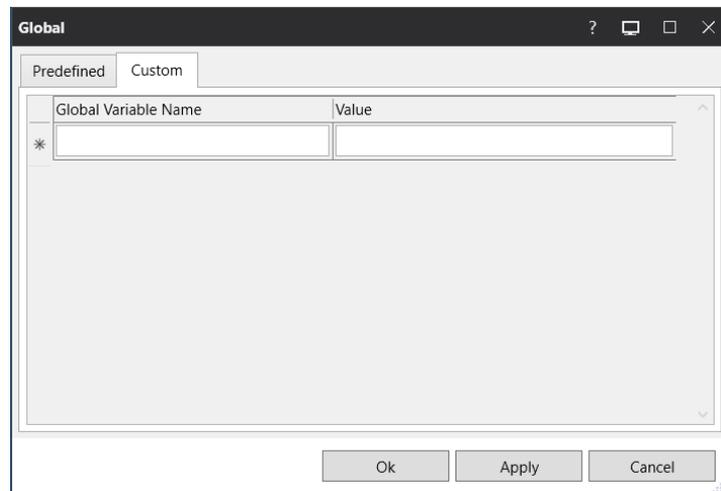
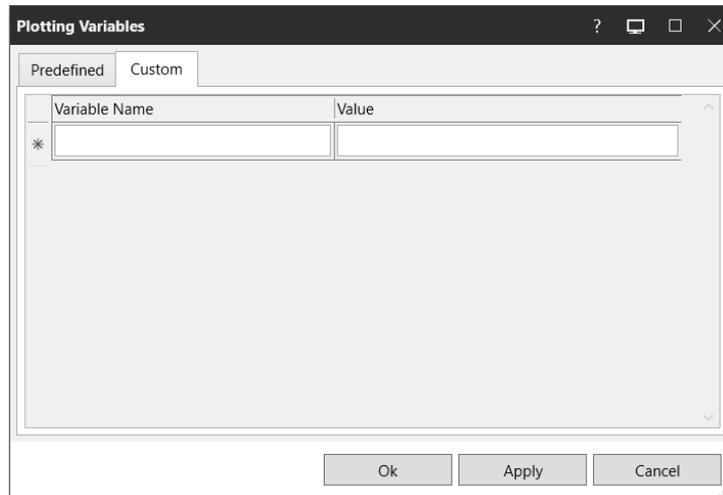
The new **Explode to My Ribbon** option can be used to add the contents of a nominated parent-child list as separate options within the custom ribbon. In the following example, right-clicking on the **To Polygons** option and selecting **Explode to My Ribbon** would result in all options in the **To Polygons** list being added to the custom ribbon as separate options.



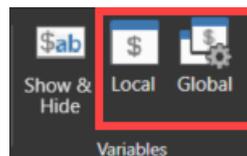
Multiple custom ribbons and toolbars can now be deleted through the **Customise** from. Press and hold the **Shift** or **Ctrl** key while left-clicking to select multiple entries before pressing the **Delete** button.

## Plot Designer Enhancements

The **Plot Designer** app now supports the ability to define and use custom plotting variables. Plotting variables are now also grouped into two categories - local and global.

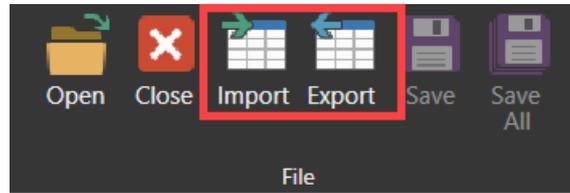


A local variable refers to plotting variables that are only available to a single plot design file or template, whereas a global variable is available to all plot design files and templates within the current project. Local plotting variables are defined through the **Variables » Local** option and global variables through **Variables » Global**.



## Table Editor Enhancements

The **Import** and **Export** options have been added to the **Table Editor** ribbon.

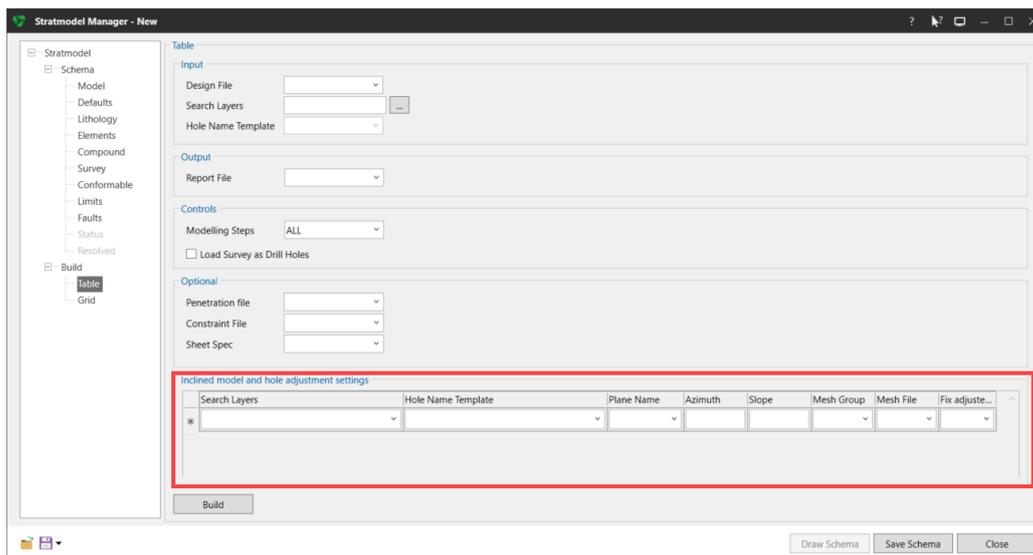


Select the **Import** option to import the contents of a nominated Datamine Studio RM database into a MineScape table file. Select the **Export** option to export the contents of a MineScape table file to Datamine. The import and export functionality originally under the **Data Exchange » Import** and **Export** options of the **Home** ribbon.

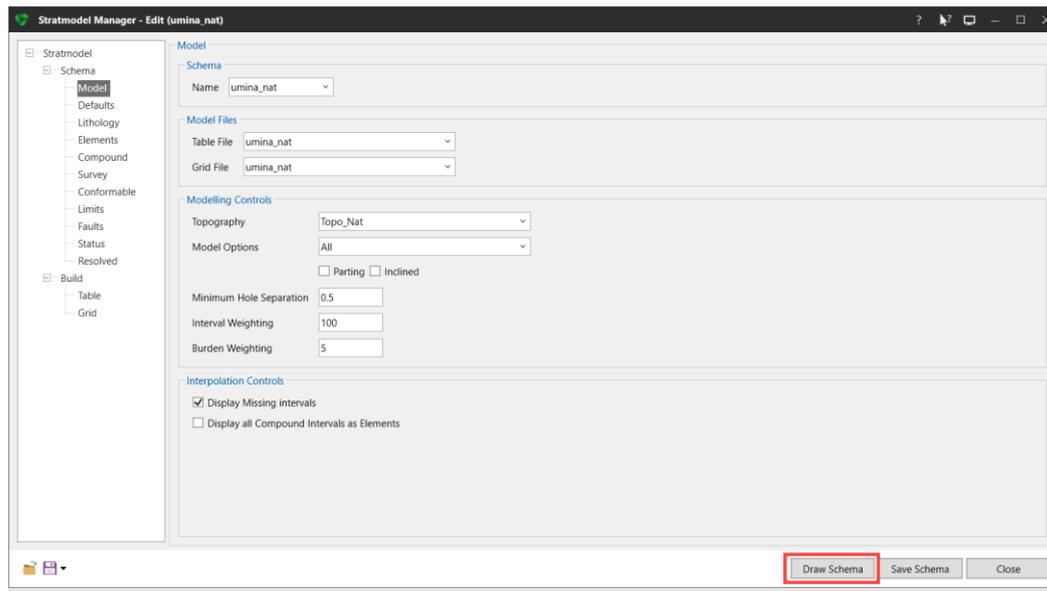
## Geology

### StratModel Enhancements

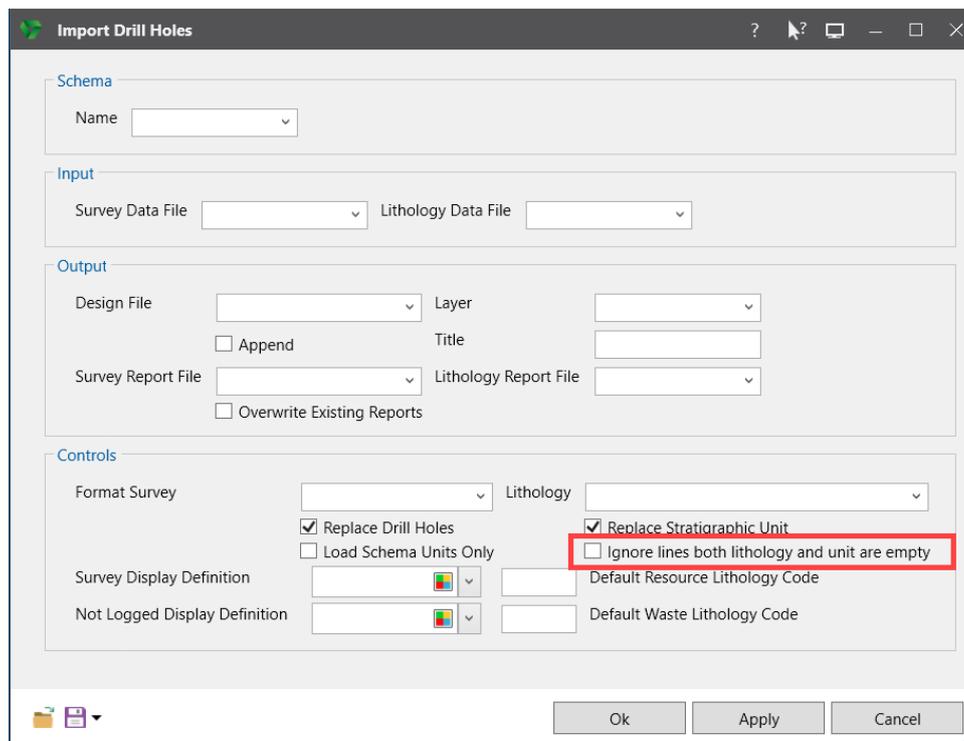
The **Inclined Model and Hole Adjustment Settings** section has been added to the **Table** node of **StratModel Manage**. This new section now allows StratModel to support resource seams that are heavily inclined with non-vertical drill holes.



The **Draw Schema** button added to **StratModel Manager**. Click the **Draw Schema** button to draw the current stratigraphic schema to a nominated design file layer.

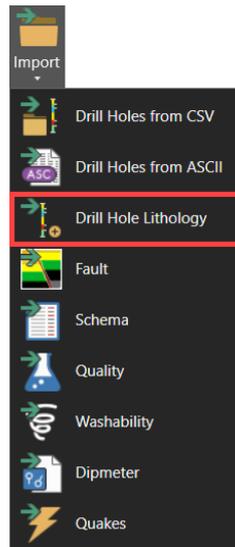


The **Ignore Lines Both Lithology and Unit Are Empty** check box has been added to the **Import Drill Holes** form. Select this check box to ignore lines within the input file that have no associated interval and lithology values, i.e., values are blank or missing. Clearing this check box will result in blank 'Not logged' records being created within the drill holes for each line that has no associated interval and lithology values.

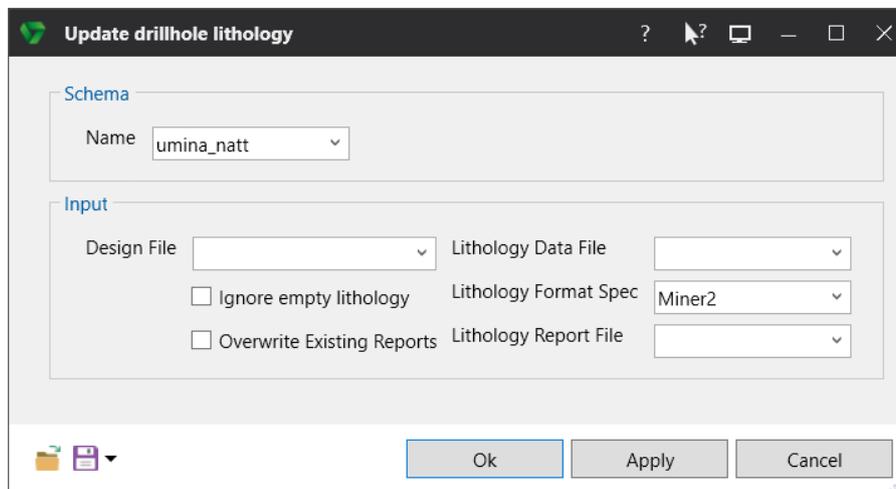


The **Import Drill Holes** form is displayed after selecting **Data Exchange » Import » Drill Holes from ASCII** from the **StratModel** ribbon.

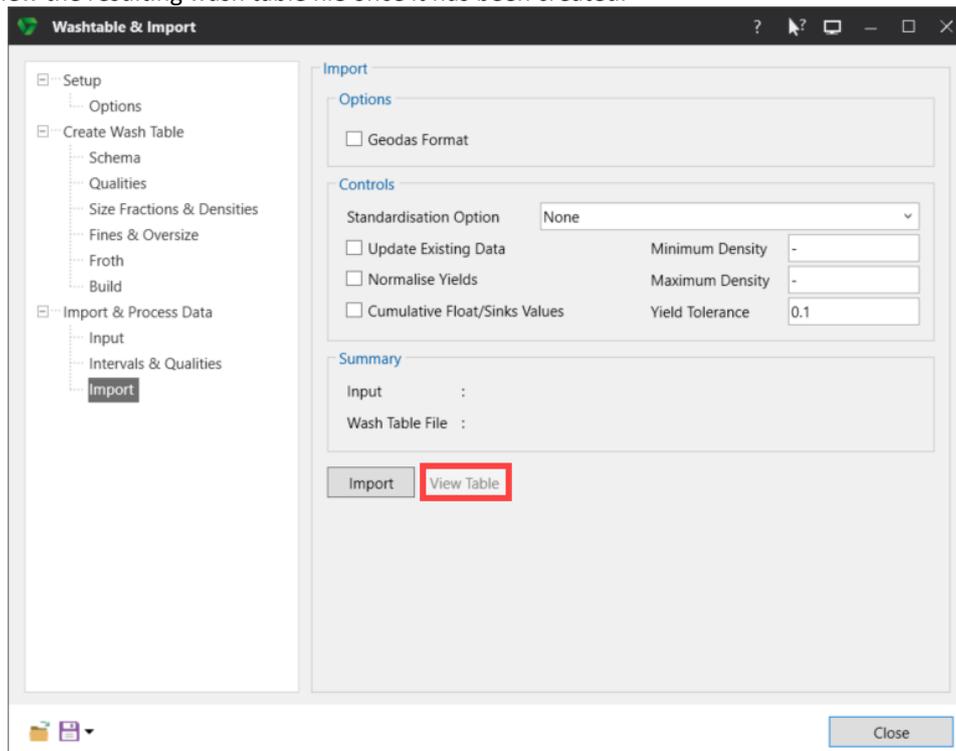
The **Drill Holes Lithology** option has been added to the **Data Exchange » Import** group of the **StratModel** ribbon.



The **Drill Holes Lithology** option can be used to update the lithology values for existing drill holes that already have intervals. The lithology values are imported from a nominated ASCII file and merged into the existing drill hole objects that have missing lithology logs.



The **View Table** has been added to the **Build** node of the **Washtable & Import** form. Click the **View Table** button to view the resulting wash table file once it has been created.

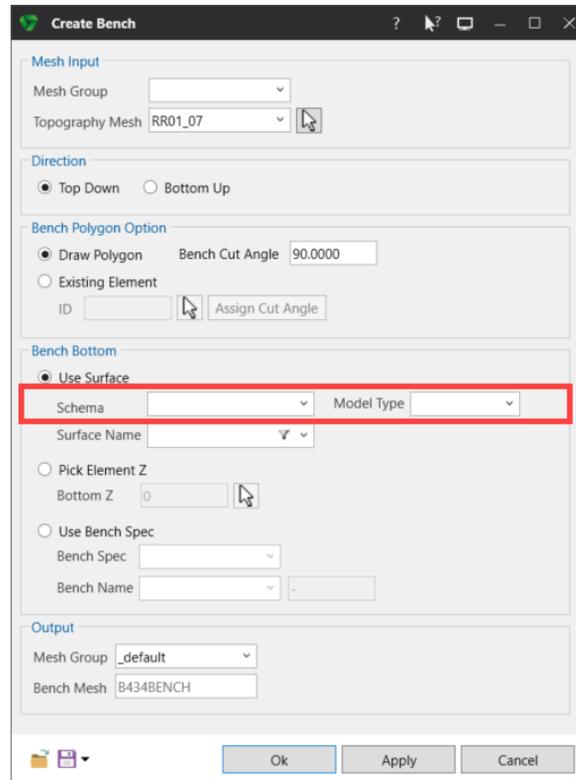


The **Washtable & Import** form is displayed after selecting **Create » Washtable & Import** from the **Washability** ribbon.

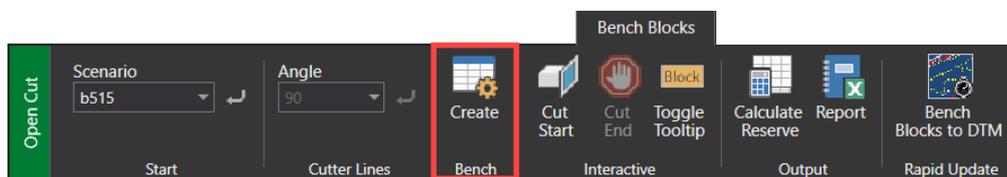
## Surface Engineering

### Bench Blocks Enhancements

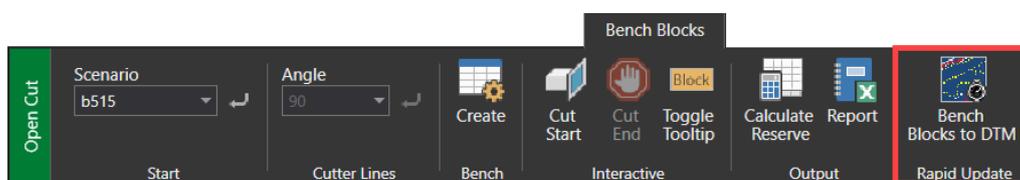
A stratigraphic schema AND model type can now be selected when using the **Use Surfaces** option to create the base of the bench solid. When using a **Schema**, only the surfaces defined within the chosen schema are listed through the **Surface Name** list. If a **Schema** is not selected, the **Surface Name** list will contain all surfaces for the current project.



The **Create Bench** form is displayed after selecting **Create** from the **Bench Blocks** ribbon.

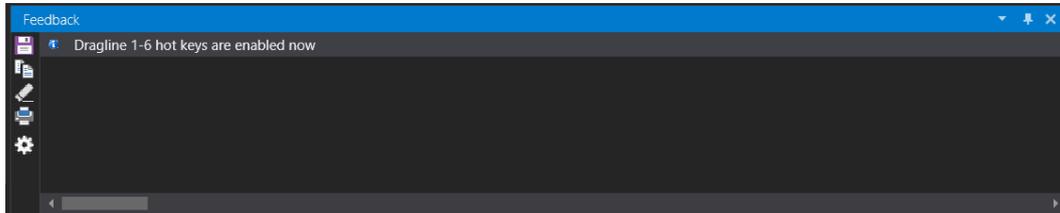


The **Merge DTM** option on the **Bench Blocks** ribbon has been renamed to **Bench Blocks to DTM**.



## Dragline Enhancements

The **1** through **6** keys along the top row of the keyboard are now used to run Dragline-specific commands instead of quickly switching between available apps. A notification message is displayed through the **Feedback** tab when the Dragline app is active.

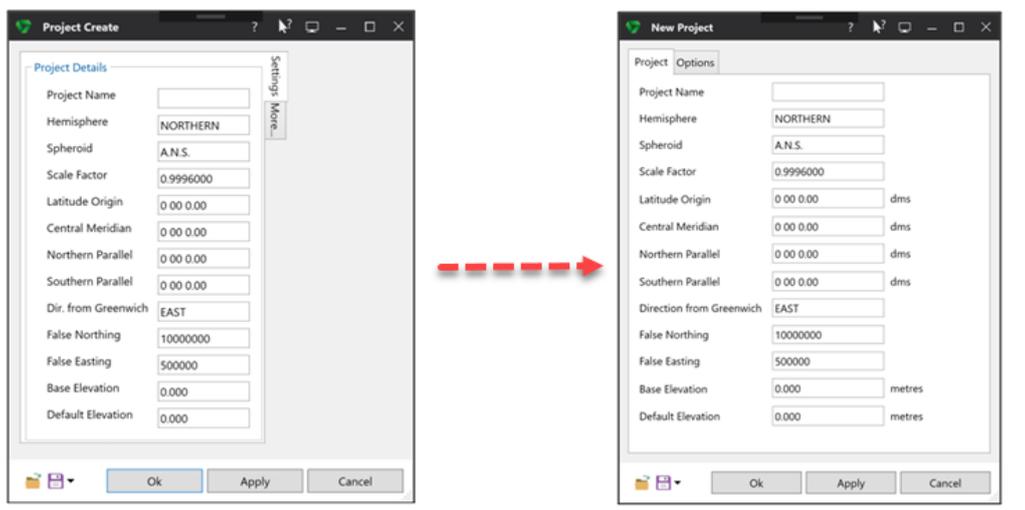


## UG Engineering

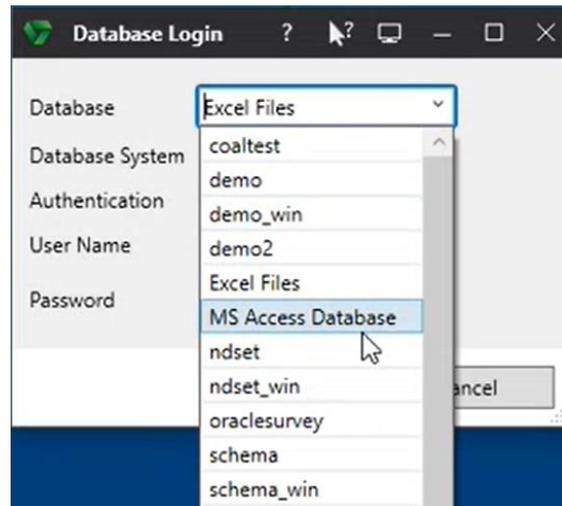
### UG Survey Enhancements

The UG Survey app now supports the use of Microsoft SQL Server databases.

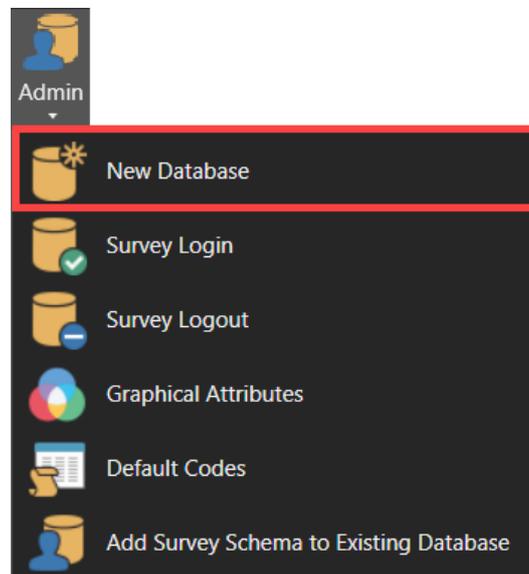
The appearance and layout of numerous forms have been upgraded and improved to provide a better user experience.



The **Setup » Run** and **Setup » Admin » Survey Login** options on the **UG Survey** ribbon now support database from all ODBC data sources.



The **New Database** option has been added to the **UG Survey** ribbon. Select the **New Database** option to create new UG Survey database. Databases can now be created without having to load the GDB app when wanting to use Microsoft SQL Server.



**Create New Database**

**System**

Database: SQL Server

**New Database**

Server:

Authentication:

User Name:

Password:

*Enter server and credentials to check ms\_survey login*  
*Enter server and credentials to retrieve database list*

**Connection Details**

SQL Auth Connection Name:

Add current Windows user as server login and database user

Windows Auth Connection Name:

**Database Information**

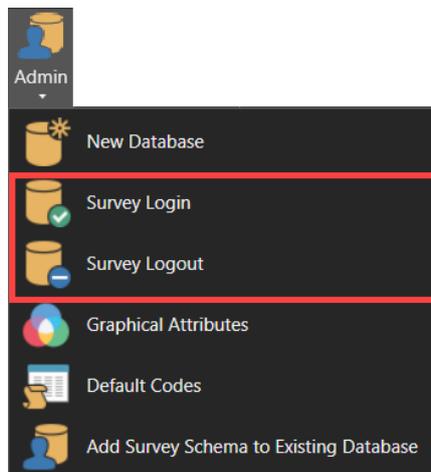
Language: English (United States)

Collation: Latin1\_General\_CI\_AS

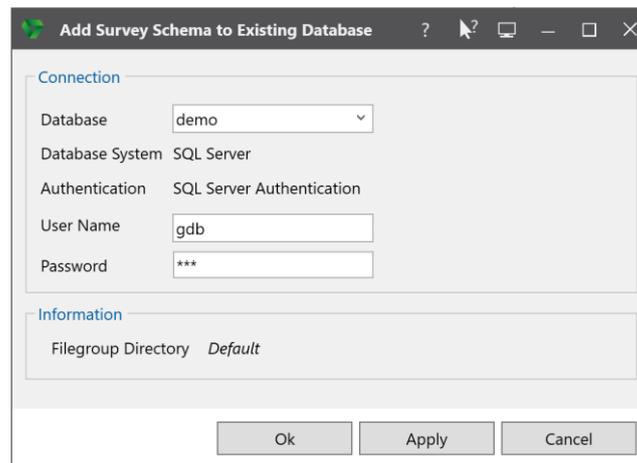
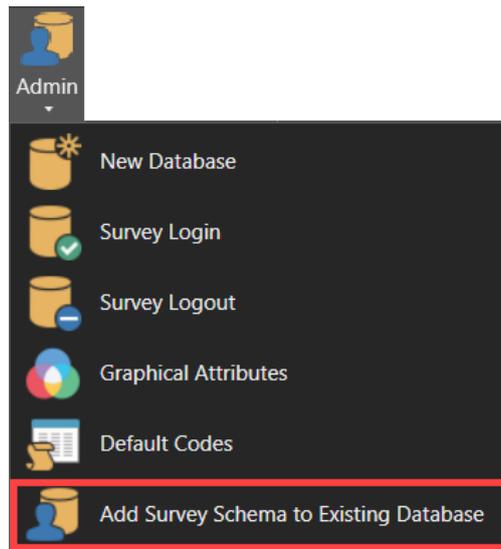
Filegroup Directory: Default

Ok Apply Cancel

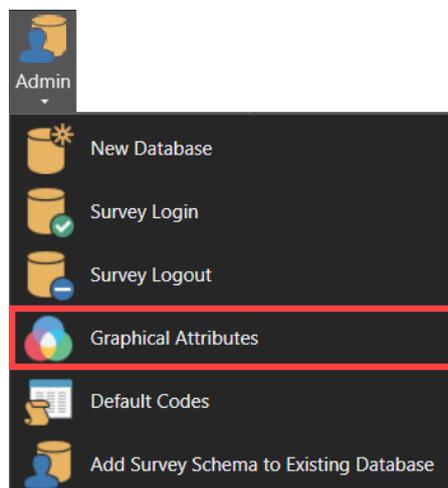
The **Survey Login** and **Survey Logout** option have been added to the **UG Survey** ribbon. The **Survey Login** option can be used to connect to an existing database, while the **Survey Logout** option can be used to disconnect from the current database.



The **Add Survey Schema to Existing Database** option has been added to the **UG Survey** ribbon. The **Add Survey Schema to Existing Database** option can be used to connect to an existing database.



The **Attributes** option on the **UG Survey** ribbon has been renamed to **Graphical Attributes**.



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## Defects Fixed

### #25582 - Unable to open shape file

Problem : Unable to open shape files listed under the MINSITE folder. The "Shape file {name} incomplete. Ensure that {name}.shp, {name}.shx, and {name}.dbf are available." error message is displayed.

### #25994 - Viewport borders missing from Plot Designer

Problem - Viewport borders are missing after sending content from CAD window to Plot Designer. Issue occurs when the CAD window contains multiple viewports.

### #30797 –Section graphics issues

Problem : Overlapping header in output GDB section graphics. 2D graphics header is also not aligned correctly.

### #31845 - Code Editor not saved to session file

Problem : The **Code Editor** tab is not loaded correctly after reloading a project from a session file. The last open document should be displayed.

### #32149 - Table mappings reset after changing preview size

Problem : Table mappings for Washability's **Import CSV** form resets after changing the **Preview Size** value.

### #32207 – “Invalid Field” warning message displayed

Problem : The “Invalid Field” warning message is displayed. This issue only occurs when using a long file or folder path.

### #32580 - Selected container ignored when using Link option

Problem : Currently selected container is ignored when using the **Link** option.

### #32588 - Cannot display 2D graphics

Problem : Cannot displayed 2D graphics through GDB when using specific data.

### #32603 - Fatal errors issued when all validation set to warning

Problem : Fatal errors are issued when all validation settings are set to 'Warning'.

### #32955 – Incorrect option label

Problem : Incorrect option label displayed through right-click history menu.

### #32957 - Form resize issue

Problem : Form incorrectly resized and is too large.

### #32978 - Duplicate mesh folder under Bench Blocks scenario

Problem : Duplicate **Mesh** folder displayed under the **Bench Blocks** scenario after restarting the project.

### #32985 - Error when creating table

Problem: Error when creating a table through the **Modify Schema** form.

### #33133 - Mesh file deleted after renaming

Problem : Mesh file is deleted after renaming the file. Issue only occurs when the file is renamed to use the name of another existing mesh file.

### #33146 - Unable to run option from Where's Is My Option? form

Problem : Unable to run **Import Drill Holes from ASCII** option from the **Where's My Option?** form.

### #33322 – Cannot import database roles

Problem : Unable to correctly import database roles from SQL server backup file.

### #33404 – MineScape crashes

Problem : MineScape crashes when the same value is assigned to the **Name** and **Group** metadata tags for a mesh file. This issue only occurs while the mesh file was selected through the **Properties** tab.

### #33422 – Multiple tabs highlighted

Problem : Multiple tabs highlighted after rearranging CAD windows.

### #33424 - Unable to search mesh folder

Problem : The **Explorer** tab's search functionality is not available to the **Mesh** folder.

### #33487 - Extra column displayed

Problem : An extra column is displayed at the end of the data grid for some forms.

### #33497 – Wrong file opened after import

Problem : The wrong mesh file is displayed after completing import.

### #33494 - Mesh file incorrectly deleted

Problem : Mesh file is incorrectly deleted when both the **Generate Individual Files** and **Overwrite** check boxes have been selected.

### #33500 - Form resize issue

Problem : Form incorrectly resized and is too large after using **Row » Fill Down**.

### #33504 - Surface repair option fails

Problem : Incorrect output produced when using **Surface Mesh » Fill Holes**.

### #33505 - Textures broken when applied to multi-mesh output

Problem : Textures broken when applied to multi-mesh output.

### #33525 - Form does not retain values

Problem : Previously entered values are not retained after reopening the form.

### #33526 - Error when using a boundary polygon with many vertices

Problem : **Solid Mesh** » **Between Surfaces** produces an error when using a boundary polygon with many vertices (1,000+).

### #33552 - Restoring formspec displays incorrect fields

Problem : Incorrect fields display after restoring a formspec for a form that uses a tree-control layout.

### #33576 - Expanded mesh does not follow input mesh

Problem : The Z level of the expanded mesh file does not follow the input mesh.

### #33599 - Empty error message

Problem : An empty error message is displayed when attempting to run reserves using a solid mesh that is currently open.

### #33615 - Mesh data not loaded from saved plot

Problem: Mesh data not loaded after loading plot designer file.

### #33681 - Delete key incorrectly deletes element

Problem : Element incorrectly deleted after pressing the Delete while using RapidCAD to delete vertices. Issue occurs after quickly moving from one vertex to another.

### #33731 - Unable to use an existing base point

Problem : Unable to select an existing base points using **Base Points** » **Delete**.

### #33752 - Duplicate element created

Problem: A duplicate element is created after using **Highwall Ramps** » **Tag Segments** or **Manage Strips** » **Rename**.

### #33777 - RapidCAD extend/reduce line not working in rotated view

Problem : RapidCAD's extend/reduce line functionality does not work as expected when using a specific rotation or view.

### #33816 - Form resize issue

Problem : Form incorrectly resized and is too large after using **Row** » **Fill Down**.

### #33819 - Form resize issue

Problem : Form incorrectly resized and is too large after using **Row** » **Fill Down**.

### #33854 - Drop-down field changes to an input field after clearing formspec

Problem : Drop-down field for **Washability** » **Import** changes to an input field after clearing formspec.

### #33868 - Form resize issue

Problem : Form incorrectly resized and is too large after moving form to a different monitor.

### #33924 - Cannot enable/disable intervals and surface lists

Problem : Cannot enable or disable the intervals and surface lists on **Geological Model » Cross Section** when **All Intervals** or **All Surfaces** selected.

### #33934 - Form issues

Problem : Unable to view measure name through **Orthogonal Measure » Edit** or **View**. Two **Left** fields displayed under the **Measurements** tab.

### #33947 - Overlapping popups on Start Page

Problem : Overlapping popups on Start Page. Popup menu does not close after closing dialog window.

### #33957 - Error message displayed when creating a basepoint

Problem : The "New point {x} already exists" error message is displayed when creating a basepoint containing an underscore character ( `_` ) in its name.

### #33958 - Unable to run Resgraphics

Problem : Unable to run **Graphics » Reserve Graphics** without UCB file in MINSITE folder.

### #33976 – Unable to find batter block

Problem : Unable to find batter block when using **Graphics » Reserve Graphics**.

### #33983 - Form resize issue

Problem : Form incorrectly resized and is too large after using **Row » Fill Down**.

### #33991 - Menus missing from Spreadsheet Editor ribbon

Problem : Menus are missing from the **Spreadsheet Editor** ribbon. This issue only occurs after opening a spreadsheet that uses a font different from MineScape.

### #33998 - MineScape crashes when using invalid project root path

Problem : MineScape crashes when an invalid project root path.

### #34000 - Only able to nominate one copy direction

Problem : Only able to nominate one direction when using **Copy » Parallel**.

### #34037 - Form fields truncated

Problem : Field names on some GDB forms are truncated.

### #34045 - Form fields truncated

Problem : Field names on the **Just In-Time DTM** form are truncated.

### #34060 - Form is truncated

Problem : The **Load Formspec** form is truncated after the **Advanced** option is expanded.

### #34077 - Values missing from closure report

Problem : Values, such as final back, final stand, and date, are missing from the report produced through **Measure » Close**.

### #34080 - Empty error message when running reserves

Problem : An empty error message is displayed when running reserves.

### #34090 - Mouse cursor position used instead of tentative point location

Problem : Current mouse cursor position is used instead of tentative point location. This issue only occurs when RapidCAD's input dialog has been locked.

### #34127 - Error when running reserves

Problem : An exception error is displayed when attempting to run reserves with multiple meshes.

### #34135 - Unable to delete trend surface

Problem : Unable to delete trend surfaces through the **Conformable** node of **StratModel Manager**.

### #34138 -Report truncated

Problem : The resulting drill hole statistics report is truncated.

### #34167 - Mesh attributes ignored

Problem : Mesh attributes, such as colour, transparency, and texture, are ignored and not applied to the output mesh.

### #34169 - Form is truncated

Problem : The mesh colour selection dialog is truncated.

### #34175 - MineScape crashes

Problem : MineScape crashes after clicking on a reference through the **Display** tab. Issue only occurs after applying a visual override.

### #34228 – Custom toolbar disappears

Problem : Custom toolbar disappears after switching between available apps.

### #34232 - MineScape crashes

Problem : MineScape crashes when trying to define a new coal template spec for a new database project.

### #34233 – Unable to convert polygon

Problem : Unable to convert a design polygon to a normal polygon using **Convert » To Polygons**.

### #34238 – Extra column displayed

Problem : An extra column is displayed at the end of the data grid for some UG Survey forms.

### #34281 – MineScape crashes

Problem : MineScape crashes when using the **Import Leica** form through UG Survey.

### #34286 – MineScape crashes

Problem : MineScape crashes after adding a drop-down icon to a custom ribbon.

### #34299 - Form is truncated

Problem : A number of GDB forms are truncated.

### #34328 – Incorrect option label

Problem : Incorrect option label displayed through right-click history menu.

### #34329 – Unable to edit base point

Problem : Unable to edit base point when surveyor set to 'None'.

### #34332 – Long delay when editing elements colour

Problem : Long delay when editing an element's colour through the **Properties Editor**.

### #34348 – Vertices not shown in some cases

Problem : Gray vertices are not shown when the mouse

# MineScape 2021 Update 1

The following section lists the new functionality, features and defect corrections delivered with MineScape 2021 Update 1.

## What's New

### RapidCAD Performance Improvements

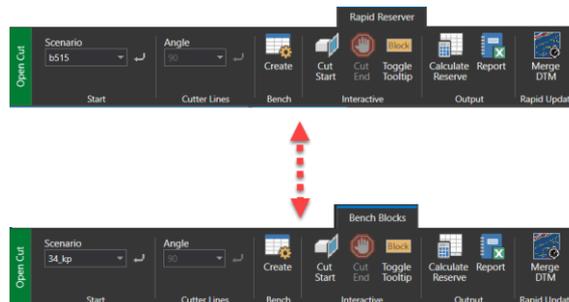
Improved performance when editing elements while the **Properties Editor** is displayed.

### Start Page Enhancements

Improved the loading of components for the MineScape **Start Page**. A status message is now also displayed when project thumbnails are being retrieved.

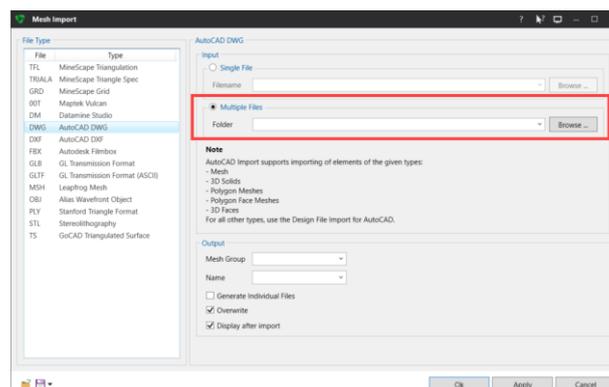
### Rapid Reserver Rebrand

The **Open Cut** app's **Rapid Reserver** ribbon has been renamed to **Bench Blocks**.



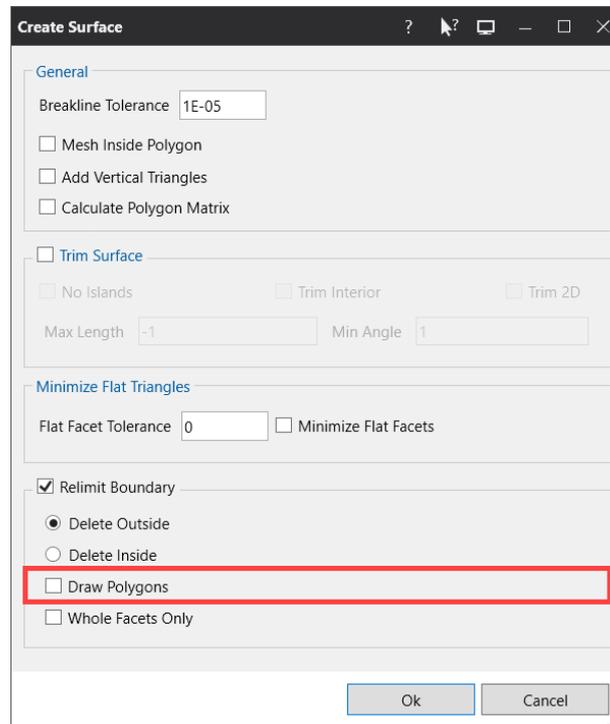
### New Mesh Enhancements

Mesh functionality has been improved to now allow the importing of up to 100,000 files at one time. Multiple files can now be combined into a single file when using the **Multiple Files** option on the **Mesh Import** form.



Clearing the **Generate Individual Files** check box while using the **Multiple Files** option will now produce a single multi-mesh file using all supported import files found under the nominated folder. Select the **Generate Individual Files** check box to create an individual mesh file for each import file found under the nominated folder.

The **Surface Mesh » Create Surface** option now supports the use of multiple boundary polygons when creating mesh surfaces within MineScope 2021. The **Draw Polygons** check box has also been added to the **Create Surface** form.



Select the **Draw Polygons** check box to pick the required boundary polygons directly from the CAD window. Clear the **Draw Polygons** check box to interactively draw the boundary polygons within the CAD window after completing the **Create Surface** form.

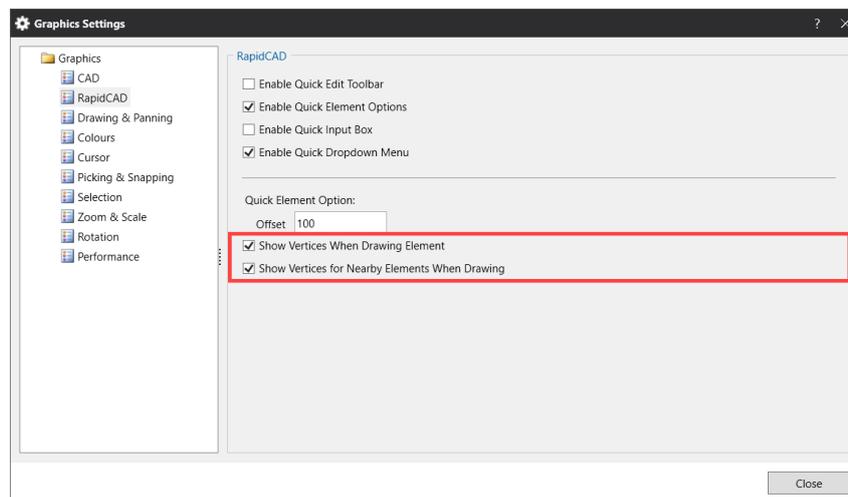
In the following example, the required boundary polygons (highlighted in green) have been selected directly from the CAD window.



The **Validate & Repair** option has been moved from the **Edit** group to the **File** group of the **Mesh** ribbon.



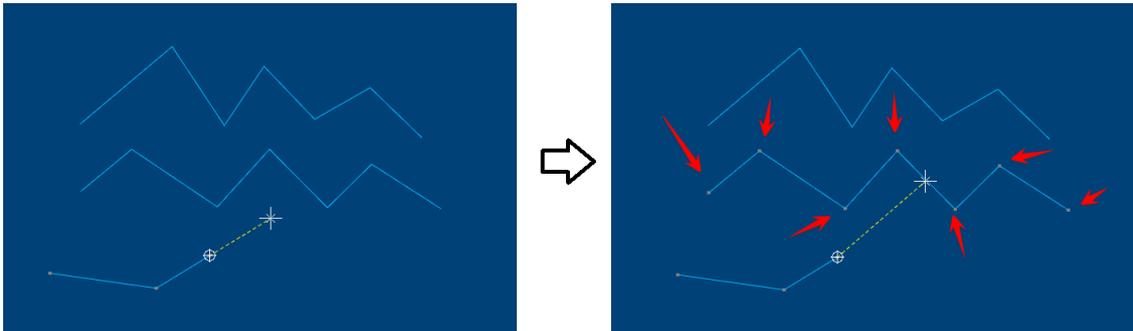
## New Graphics Settings



The **Show Vertices When Drawing Element** check box has been added to the **RapidCAD** node of the **Graphics Settings** form. The **Show Vertices When Drawing Element** check box can be used to display the vertices for new elements as they are being created within the CAD window. Vertices within the new element are displayed as grey dots.



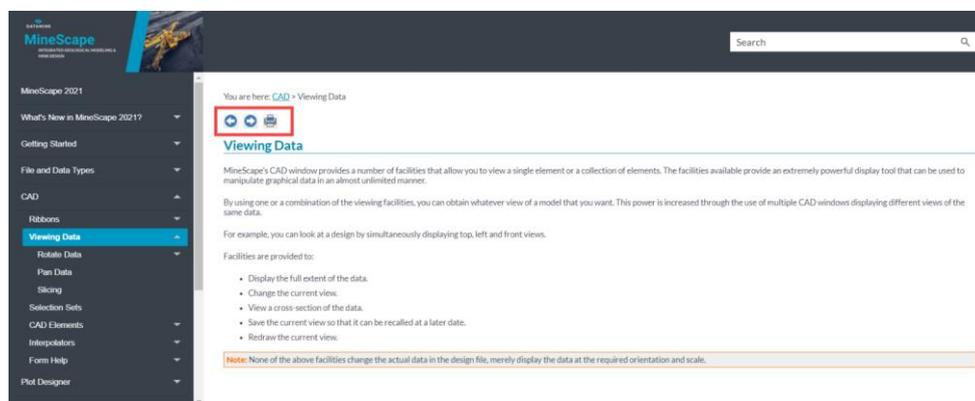
The **Show Vertices for Nearby Elements When Drawing** check box has been added to the **RapidCAD** node of the **Graphics Settings** form. The **Show Vertices for Nearby Elements When Drawing** check box can be used to display the vertices for nearby elements when creating an element within the CAD window. Vertices within a nearby element are displayed as grey dots. If multiple elements are near the mouse cursor, press the **N** key to cycle through the elements.



The **Show Vertices When Drawing Element** and **Show Vertices for Nearby Elements When Drawing** check boxes are selected by default after installing MineScape 2021 Update 1.

## New Help Navigation Icons

Navigation and print icons are now displayed at the top of each help topic.



Click the  and  icons to go backwards and forwards through your help browsing history for the current MineScape session. Click the  icon to print the current help topic.

- **Offline Help** - A new MineScape 2021 offline help installation is required to access the updated help files for MineScape 2021 Update 1. A new copy of the MineScape 2021 offline help installer has been uploaded to the MineScape software distribution portal. An existing MineScape 2021 help installation must be removed prior to installing the updated MineScape 2021 help.
- **Online Help** - Content stored on the official MineScape help server is updated automatically to reflect the changes introduced through MineScape 2021 Update 1.

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## Defects Fixed

### #30023 – Split button tooltips and flashing custom toolbar

Problem: Incorrect tooltip for split buttons on custom toolbar. Flashing custom toolbar from other document types.

### #31612 – Unable to select element near the viewport border

Problem: Unable to select an element that is positioned near the viewport border.

### #31710 - Error validation for Remove Spike and Remove Embayed Sections forms

Problem: A generic data box that allowed non-numeric values was used for the displayed forms.

### #31819 - Selecting a mesh requires two mouse clicks

Problem: The action was using AskID when selecting mesh files. By default, AskID behaviour requires a double-click of the mouse.

### # 31963 – Save confirmation prompt

Problem: Confirmation prompt incorrectly displayed after exiting the **Spreadsheet Editor** utility without making any changes.

### #31965 - Unable to update bulk element using Properties Editor

Problem: The property editor controls were set to use current values from the ribbon, and it doesn't reflect the attributes of the selected elements.

### #32054 - Able to create two dynamic corridors

Problem: Action called twice (overlapping). Each action creates temporary graphics which makes two corridors appear in the CAD window.

### #32069 - Unable to create mesh relimit

Problem: The original mesh is already unloaded so the function fails when **Apply** is pressed a second time.

### #32348 - Synching issue with icon

Problem: Synching issue with the **Axes On/Off** icon when opening a project using a session file that contained a CAD window.

### #32395 – Mesh file name displayed in lowercase

Problem: Mesh name incorrectly displayed in lowercase after copying the mesh file.

### #32472 - Data grid display issue after resizing form

Problem: Data grid does not expand after resizing the active form.

### #32514 - Suffix not added to mesh names

Problem: Suffix not added to mesh names through **Boolean » Intersect, Union, and Difference**. Suffix field in the form should only visible when the boolean operation allows multi-mesh output.

### #32578 - Plot Designer north arrow rotates in 3D when using arcball rotation setting

Problem: A flaw in north arrow's transform code calculated the rotation based on the current matrix.

### #32173 – Display issue with StratModel Manager

Problem: Column sizing and display issues when using the horizontal scrollbar and dragging it to the far right.

### 32571 - Unexpected error when checking surfaces

Problem: An unexpected error occurs when checking surfaces.

### #32579 – Mesh incorrectly coloured in resulting plot

Problem: White coloured mesh displayed as black in resulting plot.

### #32582 – Graphical changes incorrectly committed

Problem: Graphic changes committed by the **Table Editor** utility even when errors are present.

### #32622 – Save and restore formspec not mapping correctly

Problem: Save and restore formspec not mapping correctly for washability CSV import.

### #32664 – MineScape crashes when deleting sequence data

Problem: MineScape crashes after using the Delete All function to delete all sequence data.

### #32768 – Check desurvey fails when using specific data

Problem: Check desurvey fails when using specific data.

### #32835 - Error when saving washability table

Problem: Error when saving an edited washability table.

### #32905 – Element name not updated

Problem: Upgrading a design file with multiple layers does not update the **Element Name** attribute.

### #32912 – Error with insert correlate

Process: The **Validate** check box causes errors when the correlate insert process has not been committed.

### #32926 – Unable to create log plot file

Problem: Unable to create log plot file.

### #32952 – MineScape crashes when saving an Excel file

Problem: The **Spreadsheet Editor** utility crashes when trying to save an Excel file that is already open through an external application.

### #32953 – Compound not listed through StratModel Manager

Problem: Compound is not listed through the **Interval** field of **StratModel Manager**.

### #32954 – Custom colour still available

Problem: Custom colour still listed even after it has been removed.

### #32956 Unable to update values

Problem: Unable to update values when auditing is enabled.

### #32958 – Conflicting behaviour when pressing Space key

Problem: Conflicting behaviour when pressing the **Space** key to toggle tooltip display. The **Space** key was being used by both **Show/Hide Corridor** (on the **Slicing** ribbon) and **Toggle Tooltip** (on the **Bench Blocks** ribbon).

### #32965 - Extend to Boundary not working

Problem: RapidCAD 's **Extend to Boundary** option not working as expected.

### #32967 – COGO manager does not disappear after drawing

Problem: COGO manager does not disappear after completing a drawing operation.

### #32976 - Status prompt unclear

Problem: The status prompt for the **Surface Mesh » Relimit** option is unclear. Prompt now displays "Pick a polygon, Q to quit".

### #32977 – RapidCAD icon appears twice

Problem: RapidCAD's green icon appears twice after quickly right-clicking on the purple dot icon.

### #32979 – Tooltip issue for triangle prisms

Problem: Tooltip descriptions are empty for triangle prisms.

### #32984 – Data grid display issue after resizing form

Problem: Data grid does not expand after resizing the active form.

### #32990 – Reserves report not producing output Excel file

Problem: Unable to generate a reserves report through Excel when the TEMP variable has been set to a custom folder.

### #32991 – Error shown when solid creation is not completed in correct order

Problem: A generic error message is displayed when engineering solid creation is not completed in the correct order.

### #33005 – MineScope crashes when refreshing viewport

Problem: MineScope crashes when refreshing viewport.

### #33006 – MineScope crashes when clearing annotations

Problem: MineScope crashes when trying to clear annotations.

### #33045 Module crashes when validating strip line for engineering solids

Problem: SERV\_MESH module crashes when validating strip lines for engineering solid.

### #33048 - Unable to open Plotspec file

Problem: Plotspec with multiple features within one slot not supported. When converting plotspec to plot design, some viewport locations were incorrect.

### #33056 – Options not applied to StratModel contours

Problem: The **Filled**, **Lines**, and **Use Colour Palette** options not implemented for the 'Expression', 'Quality', 'Multi Model', and 'Multi Quality' data source types.

### #33057 – Metadata deletion issue

Problem: Metadata for other elements incorrectly updated after deleting a metadata key from a layer.

### #33075 – Continue Element not working

Problem: RapidCAD's **Continue Element** not working as expected. Intermittent issue where holding the left mouse button didn't trigger the function.

### #33076 - First vertex automatically added when creating a line

Problem: The first vertex is automatically added when creating a line using RapidCAD. The last detected point is incorrectly being used instead of the user input.

### #33099 – Mesh file name displayed in lowercase

Problem: Mesh name incorrectly displayed in lowercase after renaming the mesh file.

### #33122 - Viewport information not listed through Properties Editor

Problem: Properties for the active viewport are not updated through the **Properties Editor**.

### #33123 – Viewport value missing after switching between apps

Problem: The **Viewport** value under the **Display** tab is empty after switching between CAD and Plot Designer.

### #33134 – Unable to access RapidCAD options

Problem: Unable to access options via the green arrow icon after using RapidCAD's **Continue Element**.

### #33137 – Active node for StratModel Manager

Problem: The **Model** node is incorrectly set as the active node after building the table or grid through **StratModel Manager**.

### #33141 - SQL Server password policy issue

Problem: SQL Server honours the Microsoft Windows password policy by default, meaning the default GDB login password ("gdb") is rejected on some PCs

### #33178 – MineScape crashes when creating a mesh file

Problem: MineScape crashes due to an unhandled attribute value within the Vulcan import file.

### #33179 - Properties Editor does not update

Problem: The **Properties Editor** does not update while the **Edit Annotation** form is displayed.

### #33176 – Incorrect triangle output when using offset values

Problem: Incorrect triangle output when using offset values. Missing links in the wireframe created through **Utilities » Drives**.

### #33251 – Invalid output produced through Merge DTM

Problem: Invalid output produced through **Merge DTM**.

### #33254 - 2D Graphics not displaying correlation and error message

Problems: 2D graphic not displaying correlation: In some cases, the DEDERIVE or NOHOLESELECT error is displayed. Graphics occasionally not drawn properly, for example, no correlation or no intervals.

If grid value is set, but the display definition is empty, SERVORAMPL will display the "Converting string yellow to an integer. Invalid character "" in name " error message.

### #33255 – Commit does not commit the changes

Problem: Unable to commit graphical changes.

### #33265 -Large coordinates warning

Problem: Large coordinates warning is displayed when performing a CAD operation.

### #33286 - StratModel Cross Section Form Issue

Problem: Right-click **Row » Fill Down** and **Pick** options are not updating the selected control as expected. After reopening the form, fields are also not populated by the proper formspec values from the previous instance.

### #33320 – Reset/Replace empty interval

Problem: Interval not listed in the interval list. Reset/replace to empty interval displays the "X152: Interval not in the interval list" error message.

### #33321 - Properties Editor doesn't retain values after zooming or panning

Problem: When multiple elements are selected, zooming, or panning in the viewport incorrectly replaces the selection set properties with the viewport properties.

### #33326 - Create solid issue when using specific data

Problem: Issue in the projection result, the tag definition on the projected boundary is different from the original polygon.

### #33350 – Error message about an incorrect password, but database creation continues

Problem: The GDB password not sent correctly causing an error message regarding an incorrect password. Database is created despite error message.

### #33353 – Unable to list database names

Problem: Unable to list database names when using a non-admin user.

### #33359 - Clear option missing for the Attribute Display Definition form

Problem: The **Clear** right-click menu option is missing for the **Text Display Definition** field on the **Attribute Display Definition** form.

### #33376 – Unable to delete user role

Problem: Unable to delete a user role via the **Delete** button when using an SQL database.

### #33384 – North arrow container aspect ratio and scale not working

Problem : The **Keep Aspect Ratio** and **Image Scale** options for north arrow containers not working as expected.

### #33387 – Synch issue with check box state

Problem: Group check box not responsive after the resulting mesh was recalculated.

### #33398 – MineScape crashes after removing custom colours

Problem: MineScape crashes after removing custom colours.

### #33410 – Performance issue when deleting large number of mesh files

Problem: MineScape slow to respond after deleting 300+ mesh files.

### #33417 – Incorrect mesh output

Problem: Incorrect mesh output when using the **Delete Outside** option with boundary polygons that intersect.

### #33419 – Unable to import mesh data from GoCAD Triangulated Surface files

Problem: Unable to import mesh data from GoCAD Triangulated Surface files

### #33425 - Warning message displayed when importing DXF/DWG files

Problem: A warning message is displayed when creating a mesh file from a DXF/DWG file.

### #33433 – Incorrect mesh output after dragging and dropping images

Problem: Incorrect mesh output produced after dragging and dropping image files into the CAD window.

### #33435- Unable to locate input files when importing Datamine files

Problem: Unable to locate input files when creating a mesh file from Datamine files.

### #33438 – Mesh output incorrect

Problem: Incorrect mesh output produced when using **Create From Surface**.

### #33442 – Incorrect total values in reserve report

Problem: Incorrect subtotal and total average values in resulting StratModel reserve report.

### #33444 – New mesh files not listed in alphabetical order

Problem: New mesh files are not listed in alphabetical order after being created.

### #33448 – Mesh file not automatically displayed after import

Problem: Imported mesh files are not automatically displayed when using the **Display After Import** check box.

### #33461 – Database connection name incorrect

Problem: Database name being used instead of connection name.

### #33463 – MPL scripts not working

Problem: Unable to successfully run MPL scripts that use the FENCERECTANGLE verb. Script files work in an earlier version of MineScape.

## MineScape Help

### Help » Help Location » Offline

A new MineScape 2021 offline help installer has been uploaded to the MineScape software distribution portal. An existing MineScape 2021 help installation must be removed prior to installing the updated MineScape 2021 help.

### Help » Help Location » Online

Content stored on the official MineScape help server is updated automatically to reflect the changes introduced through each MineScape 2021 Update.