

Release Notes

MineScape 2021

https://www.dataminesoftware.com
 sales@dataminesoftware.com

© Copyright 2022 Datamine Software All Rights Reserved Confidential and Proprietary

Legal Disclaimer

The product described in this documentation may be connected to, and/or communicate information and data via, a network interface, which should be connected to a secure network. It is your sole responsibility to ensure a secure connection to the network and to establish and maintain appropriate measures (such as but not limited to the installation of firewalls, application of authentication measures, encryption of data, installation of antivirus programs, etc.) to protect the product, the network, your systems, and the interface against any kind of security breach, unauthorised access, interference, intrusion, leakage, damage, or corruption or theft of data. We are not liable for damages or losses related to any such security breach, unauthorised access, interference, intrusion, leakage, damage, or corruption or theft of data.

Contents

MineScape 2021	4
What's New Defects	
MineScape 2021 Update 1	
What's New Defects	
MineScape 2021 Update 2	
What's New Defects	
MineScape 2021 Update 3	
What's New Defects	
MineScape Help	

MineScape 2021 What's New

The following section lists the new functionality and features delivered with MineScape 2021.

Updated Start Page

MineScape's **Start Page** has been updated to provide users with an improved user experience and user interface.



File Menu



The **File** menu located on the left-hand side of the **Start Page** can be used to open projects, create standard MineScape data files, edit user information, and configure settings for MineScape 2021.

Products and Apps

Plugins within earlier versions of MineScape are now referred to as "apps" within MineScape 2021. Apps such as CAD (formerly Core), StratModel, GDB, are now grouped into the following four products:



Geology

The following apps are grouped under the **Geology** product:



Surface Engineering

The following apps are grouped under the **Surface Engineering** product:



Underground Engineering

The following apps are grouped under the **Underground Engineering** product:



Engineering Optimization

The following apps are grouped under the **Engineering Optimization** product:



2 Smith

Project Files

<page-header>

MineScape projects can still be created and accessed through the **Start Page**.

If required, projects listed under the **Recent Projects** can be removed to reduce the recent files listing.



Available Tools



The Available Tools section of the Start Page can be used to access the following utilities:

- License Manager
- App Builder (MineScape SDK toolkit)
- Table Editor
- Module Monitor
- Diagnostics
- Spreadsheet Editor
- Code Editor

Warning for Expiring Licenses

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

New Ribbon System

MineScape 2021 replaces the menus used in earlier versions of the product with ribbons. The new ribbon system has been designed to mimic user workflows and to provide access to new and existing more quickly.



MineScape 2021 supports the ability to create custom ribbons and toolbars.

Extended Tooltips

Extended tooltips are available for each option on MineScape 2021 ribbon. Position the mouse cursor over an option to display a description of the option, an associated hotkey (if one is available), and a **Tell Me More** link to the corresponding help topic.



User Interface Enhancements

Improved Forms and Updated Icons

Numerous forms within MineScape 2021 have been updated to make use of the tree-control structure which provides both a streamlined workflow and a better user-experience.

Sontour - Surface		?	k ? □	_ 🗆	×
Contouring Graphics Graphics Graphics Graphics Domain	Setup Data Source Surface Schema Schema Schema Quality Model V Input Surface Name V Append Title Append	· · · · · · · · · · · · · · · · · · ·			
📑 🗄 🕶	Ok	Apply		Cancel	

Where applicable, older icons within the interface have also been updated.

Form Spec Icons

The icons displayed in the bottom left corner of all MineScape 2021 forms can be used to load and save form specs.

👽 v	/ertices			▶? 🖵 🗆 🗙
	X Coordinate	Y Coordinate	Z Coordinate	^
•	118898.222	2361464.674	0.000]
2	118475.872	2360920.112	0.000	
3	120043.356	2360798.130	0.000	
4	120091.251	2361151.006	0.000	
5	119538.278	2361325.266	0.000	
6	119290.093	2361055.163	0.000	
7	119054.970	2361203.284	0.000	
8	119377.175	2361486.457	0.000	
9	119660.193	2361530.022	0.000	
(L.	T	т. Г	
2		Ok A	Continue E	lement Cancel

New Popup Control for Display Definitions

Display definition fields on MineScape 2021 forms now support the use of the ^{**} wildcard to filter the contents of an available list. Display definitions can now also be created through a new popup dialog.

Click the **s** button on an active form to display the new popup control.

Compound Surfac	e Definition					
Definition						
Con	npound Name	Y	*			
	Description					
:	Schema Name		~			
Default	Surface Name	Y	~			
* Name	Domain					
Dis	play Definition	<u>_</u>	~			
	Ok	Apply		Can	cel	

Enter a name for the display definition through the available **Name** field and select an element colour, line style, line style width, marker type, and fill pattern. Click the **Select** button to configure the size and angles for marker types and fill patterns.



The right-click **New**, **Edit**, and **View** options can still be used to display the **Display Definition** form from previous versions of MineScape.

Surface List Filtering

The **Filter** (Υ) icon on MineScape 2021 forms can be used to filter available surface definitions by type. Click the Υ icon to apply a surface type filter.

🍃 Create Mes	h From Surfaces	?	\ ? □	_ 0	×	
Schema						
Schema		~				
Model Type		~				
Controls						
Mesh Group		~				
Name Prefix						
Grid Spec		~				
	Replace Existing	Values				
Surfaces Surface *	(? ~				
		S Filte	r			
		Select	a Surface	Type SU	RFCOM	POUND Y
				Ok		Cancel
					~	
- 🗄 🖬	Ok	Apply	/	Cancel		

New Select All/Delete All Functionality

Left-clicking in the top left corner of a form's grid will now select all available rows.

V	v	/ertices			▶? 🖵 🗆 🗙
Г		X Coordinate	Y Coordinate	Z Coordinate	^
	۲	118898.222	2361464.674	0.000	
	2	118475.872	2360920.112	0.000	
	3	120043.356	2360798.130	0.000	
	4	120091.251	2361151.006	0.000	
	5	119538.278	2361325.266	0.000	
	6	119290.093	2361055.163	0.000	
	7	119054.970	2361203.284	0.000	
	8	119377.175	2361486.457	0.000	
	9	119660.193	2361530.022	0.000	
	ĩ	₽ (Dk	Apply Continue	Element Cancel

Right-click on this area to display the new **Delete All**. The **Delete All** option can be used to delete all rows from the available grid.

9	v	/ertices			\ ? ⊑	
			Y Coordinate	Z Coordinate		^
)	Delete All	2361464.674	0.000		
	2	118475.872	2360920.112	0.000		
	3	120043.356	2360798.130	0.000		
	4	120091.251	2361151.006	0.000		
	5	119538.278	2361325.266	0.000		
	6	119290.093	2361055.163	0.000		- 1
	7	119054.970	2361203.284	0.000		
	8	119377.175	2361486.457	0.000		
	9	119660.193	2361530.022	0.000		~
	2	₽ - C	Dk App	Continue Ele	ement	Cancel

Add Colours to Colour Palette

MineScape 2021 supports the ability to add up to 50 colours to the standard CAD colour palette. To add colours to the colour palette, click the **F** icon on the **Edit** section of the **Home** ribbon and click **Add Custom Colours**.



Colours can be selected from the standard colour palette or by using RGB, HSL, or CMYK values (via the **Advanced** button). MineScape needs to be restarted to apply the changes to the CAD colour palette.



New Interactive Filter Tab



The new **Interactive Filter** tab within MineScape 2021 can be used to interactively filter loaded mesh files by their assigned metadata tags. Only mesh files with the matching metadata tags are displayed through the CAD window.

Metadata tags can be assigned manually through the **Mesh** ribbon or automatically when generating engineering solids through the **Open Cut** app.

Updates to the Properties Tab

The layout of the **Properties** tab has been improved. Where possible, groupings have been updated and unnecessary fields removed, for example, statistical information for highlighted elements is now displayed through the **Statistics** tab.

The **Type** field within the **Properties** tab can now be used to convert elements to a different element type. To convert a line, point, or polygon element, select the new type from the available list.

⊿ General	
Element Name	
Element ID	257
Туре	LINES

New Icon for Display and Render Order Tabs

The **Data View** (1) icon has been added to the **Display** and **Render Order** tabs. Click the icon to list data through the **Display** and **Render Order** tabs without using a hierarchical tree.



Display tab - Data View

New Fields for Visual Overrides

The Fade and Transparency fields under the Visual Overrides tab now include percentage fields.

Visual Overrides				ב	
'≣ 2↓				×	۵
	Filter Text		69		-
 Attributes 					
Colour					
Marker					
Line Style					
Fill Pattern					
Light Model					
Height Cue					
Fade				-[100
Transparency	~			-L	100
Annotation					
Misc					
Visibility					
Source					
Source	de				
Source Type	De	esign File			
Layer	C/	4D			
States					
Fade					
Override the inte controlled by a h fade) to 100% (c	ensity of sele orizontal sli omplete fad	cted element der with a ran e).	s. Fade i ge fron	is 1 0%	6 (no

Improved Reference Grouping for Triangle Prisms

Loaded triangle prisms are now grouped under a single reference within the **Display** tab.



Highlight Row in Element Details

Placing the mouse cursor over a vertex within the CAD window will now highlight the applicable row within the **Element Details** form.

	∽	Line	25			3	?	Q		
	G	ener	al							
	Ve	ertice	aemo es Attributes	Layer Cad	Ele	ment ID 2	:57			
	I r	Verte	ex Data							
* 1/			X Coordinate	Y Coordinate	Z Coordinate					^
	1	8	119350.1	2359823.4	484.300					
		9	119351.0	2359825.9	484.168					
		10	119352.0	2359828.3	484.053					
		11	117244.2	2250022.6	0.000					
		►	119354.5	2359832.9	483.873					
		13	119356.1	2359835.1	483.809					
		14	119357.8	2359837.3	483.762					
		15	119359.7	2359839.4	483.732					
		16	119361.7	2359841.4	483.720					
		17	119364.0	2359843.4	483.724					
		18	119366.4	2359845.4	483.745					
		19	119369.0	2359847.2	483.784					\sim
	i 📑	=	-		Ok	Ap	ply		Car	icel

Improvements to Layer Copy and Move

The **Copy Layers** and **Move Layers** forms have been updated and now allow up to 1000 layers to be move and copied between design files.

🤝 Ca	opy Lay	ers					?	₹?	Ð		
Copy l	ayers	Copy Elements	Move Lay	/ers							
Out	put —										
De	sign File	demo	~								
Inpu	t/Outpu	ut									
	Input	Design File		Input La	ayer	Output L	ayer		Overv	write	^
►	demo)	~	Cad	¥	Cad		~	No	~	
*			~		~			~		~	
				<u> </u>							~
= 1	-				Ok		Apply			Canc	el
🏷 м	love La	yers	-				?	▶?	₽	_	
Sopy L	love Lag	yers Copy Elements	Move La	ayers			?	₹?	₽	_	
Copy L	love Lay _ayers put	yers Copy Elements	Move La	ayers			?	k ?	Ţ.	_	
Copy I	love Lay _ayers put esign Fil	yers Copy Elements e demo	Move La	ayers			?	▶?	D	_	
Copy L Copy L De	love Lay _ayers put esign Fil	e demo	Move La	ayers			?	ķ ?	₽	_	
Copy L Copy L De	love Lay ayers put esign Fil	e demo	Move La	ayers			?	▶?	-		
Copy I Copy I De	ayers put esign Fil ut/Outpu	e demo Design File	Move La	ayers	Layer	Output	? : Layer	▶?		—	
M Copy I Outp De Inpu	love La Layers put esign Fil ut/Output Input demo	vers Copy Elements e demo ut Design File	Move La	Input I	Layer	Output	? : Layer	▶?	CVve	erwrite	
M Copy I Out De Inpu **	love Lag ayers put esign Fil it/Output lnput demo	yers Copy Elements e demo ut Design File	Move La	ayers	Layer v	Output Cad	? t Layer	▶ ?	Ove No		
M Copy I Outp De Inpu **	ayers put esign Fil ut/Output linput demo	yers Copy Elements e demo ut Design File o	Move La	Input I Cad	Layer v	Output Cad	? t Layer	▶ ?	Ove No	erwrite	
M Copy I De Inpu	ayers put esign Fil it/Output demo	vers Copy Elements e demo ut Design File o	Vove La	Input I Cad	_ayer v	Output Cad	? : Layer	▶ ?	Ove No		

New Scripts Toolbar

A **Scripts** toolbar is included with MineScape 2021. The new default toolbar can be used to run an existing MPL script files (.ucs). Existing MPL script files can also be added to custom ribbons and toolbars.



New Close All Icon

The **Clear All Stowed Forms** (ACC) icon has been added to the **Stow** ribbon. Clicking this icon will clear all entries from the **Stowed** list.

Stow		>	<
Stowed	-	X	

CAD Enhancements

Rapid CAD Tools

MineScape 2021's new RapidCAD tools can be used to rapidly design, edit and manipulate in CAD without having to revisit a ribbon or toolbar. RapidCAD is collection of design tools that can be used to perform and complete your daily tasks more efficiently saving you countless hours of design work and everyday editing.



Metadata Support for Design Data

Metadata tags can now be applied to elements within a design file layer. Once applied, the metadata tags can be used to select loaded elements directly from the CAD window.

To apply metadata tags, the design file must use the "*extended design file format*". The extended format can be set when creating a design file or an existing design file can be upgraded using the **Explorer** tab's new right-click **Upgrade** option.



Design files using the extended format are represented by the rest = 1 icon within the **Explorer** tab. The rest = 1 icon is used for design files that use the standard format. The design file format can also be displayed by positioning the mouse cursor over the design file name through the **Explorer** tab.

Metadata tags and values can be assigned using:

• the new **RapidCAD** right-click menu



• the Explorer and Display tab's new right-click Manage Metadata option



• the options under Selection » Find Elements of the Home ribbon.



The following options under **Selection** » **Find Elements** of the **Home** ribbon can be used to find and highlight elements by a metadata tag value.



If required, a design file using the extended format can be downgraded to the standard format using the **Explorer** tab's new right-click **Downgrade** option.



New ArcBall Rotation

Intuitively rotate and manipulate objects in 3D space. Arcball Rotation within MineScape 2021 allows for quick and precise interrogation of your data.



Dynamic Corridor Slicing

MineScape 2021 includes the ability to create dynamic slice corridors. within the current CAD window. The new **Dynamic Corridor** group of the **Slicing** ribbon can be used to create and manipulate slice corridors.



New Interactive Curve and Smooth String Functionality



The **Interactive Curve** option under the **Element Utilities** group of the **Design** ribbon can be used to interactively apply curve to a section of a nominated element. Unlike the standard **Curve** option, which uses defined drawing parameters, the new **Interactive Curve** option uses control points to interactively apply the curve.



The **Smooth String** option under the **Element Utilities** group of the **Design** ribbon can be used to smooth an existing line element without need to apply a sampling factor. The smooth string functionality available in earlier versions of MineScape has been renamed to **Smooth Approximation**.

Improved Height Cue Colouring

MineScape 2021 introduces improved height cue colouring functionality through the **Visual Overrides** tab.

To apply height cue colouring, select the **Height Cue** check box before clicking the ... button.



Through the new **Height Cue** dialog, nominate a colour range and define the minimum and maximum elevation values for the data in the CAD window. Data outside of the nominated elevation range can also be assigned a specific colour.



Repair Data Options

MineScape 2021's new **Repair Data** options can be used to repair existing design data. The **Repair Data** options are available through the **Element Utilities** group of the **Design** ribbon.



New Graphics Performance Setting

Markers can now be hidden when a set number of elements have been selected. Select the new **Hide markers when more than <n> selected elements** check box to disable marker display when more than a set number of elements are highlighted through the CAD window.

🔅 Graphics Settings	?	×
Graphics Graphics GAD GAD GAD GAD GAD GAD GAD GAD	Craphics Performance Draw as Simplified Data Draw as Much as Possible Draw All Attributes Performance Hide markers on point elements Hide markers when more than 5000 selected elements	
	Close	

The **Graphic Settings** form is accessed through clicking the ^{**G**} icon from the **Graphics** group of the **Home** ribbon.



High-Performance Mesh Functionality

MineScape 2021 introduces new high-performance mesh functionality to replace the triangle file format used in earlier versions of MineScape. Mesh files can be generated from external files, such as AutoCAD DXF/DWG files and LAS point cloud data, as well as from existing MineScape data, such as grid files and triangulations. Boolean operations, such as cut, merge, and union, and improved texture support is also available.

Mesh functionality within MineScape 2021 is accessed through the new Mesh ribbon.



The Mesh folder has also been added to the Definitions » Surfaces section of the Explorer tab.



The **Mesh** folder supports the standard right-click options for creating, editing, viewing, and processing surfaces.

Engineering Enhancements

Just in Time Modelling

The **Rapid Update** group of the **Open Cut** ribbon can be used to easily maintain a short-term geological model, derived from the resource geologic model, based on new data collected in the field.



Bench Blocks

The **Open Cut** app's bench blocks functionality provides short-term engineers with a rapid, interactive design tool while at the same time generating volume and reserves for rapid display in CAD. The bench blocks functionality within MineScape 2021 is accessed through the new **Bench Blocks** ribbon.

File	e Open Cut	Strip Pl	anning	Reclamatic	on Res	erves	Bench	Blocks	Quakes	Regula	atory Plots	Help
Open Cut	Scenario b434 Start	ل -	Angle 90 Cutte	r Lines	Create Bench	Cut Start	Cut End	Block Toggle Tooltip ve	Calculate Reserve Outp	Report	Merge DTM Rapid Update	

Redesigned Engineering Solids

Redesigned workflow for engineering solids creation. Improved visualization and filtering of the engineering solids for ease of validation and output.



StratModel Enhancements

New StratModel Manager

MineScape 2021 includes the **StratModel Manager** which can be used to create, edit, and view schema definitions.

Stratmodel	Model
Stratmodel Softma Softma Model Defaults Uthology Elements Compound Survey Conformable Limits Faults Status Resolved Grid Grid	Schema Name umina_coal Model Files Table File umina_coal Grid File umina_coal Modelling Controls Topography Topo_Nat Model Options All Parting Inclined Minimum Hole Separation 0 Interval Weighting 100 Burden Weighting 5 Interpolation Controls
	Display Missing intervals Display all Compound Intervals as Elements

The **Status** node of **StratModel Manager** also lists the version of MineScape that was recently used to update the schema.

- Schema					
Model	Model Status				
Defaults		Details of Las	t Update		
Lithology		Time	Date	User Name	Version
Elements	Schema Spec	09:32:21	25/09/20	jimsr	
Survey	Drill Holes Loaded				
Conformable	✓ Initialised Table	15:15:08	17/07/20	jimsr	
- Limits Faults	☑ Load Table	15:15:08	17/07/20	jimsr	
Status	☑ Interpolate Table	15:15:09	17/07/20	jimsr	
Resolved	Resolve Drill Hole Anomalies Initial	15:15:09	17/07/20	jimsr	
Table	Review Table Model	15:15:09	17/07/20	jimsr	
Grid	Reinterpolate Table Model	15:15:10	17/07/20	jimsr	
	Solve for Missing Thickness Elements	15:15:10	17/07/20	jimsr	
	Resolve Thickness and Surface Elements	15:15:11	17/07/20	jimsr	
	Grid Model Created	15:15:25	17/07/20	jimsr	

StratModel Manager is accessed through the **Schema** » **StratModel Manager** section of the **StratModel** ribbon.



New Excel Templates for Reporting

MineScape 2021 includes a collection of default Excel templates that can be used for reporting. These templates are stored under the **Microsoft Office** » **Excel** » **Templates** folder of the **Explorer** tab

The following **Predict** options under the **Drill Holes** group of the **StratModel** ribbon support output to Excel reports.



The following **Statistics** options under the **Drill Holes** group of the **StratModel** ribbon support output to Excel reports.



The following options under the **Geological Model** group of the **StratModel** ribbon support output to Excel reports.



The following options under the **Process Reserves** group of the **Reserves** ribbon supports output to Microsoft Excel.



Import Drill Holes from CSV

MineScape 2021 includes the ability to import drill hole data directly from existing CSV files .This new functionality can be used to easily import and load drill hole, downhole survey, and lithology data into MineScape.

💱 Drill Hole Import - CSV							? 🕽	€□ -	×
- Data Sources Collar - Downhole Survey Lithology Review	Collar	Comma · Exclusion Codes	v	Browse					
					Back	Next	Apply	Cancel	

Washability Enhancements

MineScape 2021 includes a dedicated ribbon to provide an improved Washability workflow and user experience. Where possible, existing forms have also been updated and improved.

File	StratModel	Quality	Washability	Reserves	Quakes	s Help)						
StratModel	Washtable Quality & Import Mode	y From I Quality Ta	Edit	Sort Clor	ne Drill Holes	Interval	Grid Model	Table Model	Accumulate	Product Interpretation	Report	Using MXL	Export T
	Crea	le		ounties		Compo	siung		lable U	perations	Out	pul	Data Exchange

SQL Server Support

The **GDB** app, which is part of MineScape 2021's **Geology** product, can now be used with a Microsoft SQL database.



New Code Editor Utility

The new **Code Editor** utility within MineScape 2021 can be used to view, edit, and run MPL script files (.ucs).



Data Transfer Enhancements

Improved Exporting to AutoCAD DXF/DWG

The new right-click **Save As** option can be used to export design file data to a nominated AutoCAD DXF or DWG file. Unlike previous versions of MineScape, the exported data can be located under different design files and layers.



The **Save As** option can be accessed by:

- right-clicking on highlighted elements within the CAD window
- right-clicking on highlighted layers through the Explorer tab
- right-clicking on highlighted references through the **Display** tab

Batch Renaming and Mapping for Minex Grids

When importing from an existing Minex file, grid values within the resulting MineScape grid file can now be explicitly renamed to separate between interval and quality values.

🏷 Мі	inex Grid								? 🔥? 🖵	_ 🗆	×
ASCII	ASCII Generic	CPS-III	Dumps	M2 Structural	M2 Grid	M2 Topo	M2 Quality	Minex Grid	Dozer Grid	Vulcan Grid]
	No Name Tan No Name Tan Separate Qua Number of Q put Minex Grid Ai Minex Grid Fi	npering ality uality Lette scii Dump le	rrs 2			rowse]				
	utput MineScape Grid ontrols Create Grid Su Surface Prefix	File Name	topo_nat	_strat ~							
=							Ok	А	pply	Cancel	

The **Explorer** tab's new right-click **Mapping** option can be used to automatically create intervals from an existing Minex grid file. To successfully generate the intervals, the chosen Minex grid file must contain a roof, floor, and thickness.

To access the **Mapping** option, right-click on the **Definitions** » **Surfaces** » **Interval** folder. Once selected, the **Interval Mapping** form is displayed.

	🔺 💕 Definitions
	🔺 💑 Surfaces
	All Surfaces
	End Compound
	🕨 😼 Expression
	▶ Grid
	■ R New ■ R ■ K ■ Ldit
	🕨 🎫 T 🗟 View
	🕨 🔺 T 🚈 Import
	🛓 🕭 M 늘 Export
	Displi 🙏 Graphics
	Batte
	Lists Z Refresh
- 📎 🛛 Interval Map	ping ? 🔖? 🖵 — 🗆 🗙
Grid File	~
- -	Ok Annha Caraal
	OK Appiy Cancel

Plotting and Printing Enhancements

Print Preview Functionality

MineScape 2021's new **Print Preview** utility can be used to print and preview PDF files from within your current working directory. The **Print Preview** utility can also be used to save a PDF file as an image file (.bmp.gif, .jpg, .png, and .tif).



Improved Table Container Behaviour

Any text styles applied through an Excel spreadsheet, for example, text colour, bolding, or italics, are now applied to the contents of the table container when copying and pasting content from Microsoft Excel.

Merge and View PDF Files

The Merge PDF Files and View PDF check boxes have been added to the Output node of the Batch Plotting form.

Satch Plotting			\ ? [⊋ –		
Batch Plotting Open / New Schema Layers Text Output	Output Output Filenames Merge PDF files View PDF					
Total Plots 0	Save					
📔 🗄 🕶	Ok	Appl	у	Ca	ncel	

Select the Merge PDF Files check box to merge the resulting PDF files into a single file. Select the View PDF check box to automatically display the resulting PDF plot(s) files through the Print Preview utility.

New Default Plot Templates

The following default templates are now included with Plot Designer and can be used to create new plot files.

Description Quick Plot Replacem	nent
File Name plot05	
мете 22 Мау-3020 велия 1.2460 ремом № Е регол. ная 221	
PROJECT: <\$prejectname> ™exa apus- PLOT:	
<dplotfiename></dplotfiename>	
D2_template Description No description avail	able
Create	able
Image: Control of the state of the stat	able

			X 03_template Description No description available
			File Name plot05
			Create
	01 001-001 IB02/76 - 6H Duartity Part10 / nambar Edmication tolars E E E C E E C E E A A A Annor eta DADT NAME DADT NAME	IRON I Material IRON Conversion (CONTROLLE) IRON I	
	COUNT RY		04 template
*			Description No description available File Name
			plot05 Create
		Datamine	
<u> </u>	Particip Obta by Decembra 100-101 10745330 24 Autority Autority 100-101 100-101 100 100 Autority	HAULROAD CERTIFICATION	

New Plotting Options

The Force OneX line weight to 1px on PDF Zoom check box has been added to the Plotting Options section of the Plot Settings form.

	ngs		?
General	Compres	sion	
Paper De	efaults		
• Pap	er	A4 ~	
		O Portrait I Landscape	
⊖ Cus	tom (in.)	Width 29.7 x Height 21.0	
Margin	ns (in.)	Top 0.4 Left 0.4	
		Bottom 0.4 Right 0.4	
		Restrict Data to Margins	
Plotting (Options –		
Plotting	Options — p Paper Ce	ntered on Screen Split Size 0 in.	
Plotting Keep Grid	Options — p Paper Ce I Alignmen gnment Sp	ntered on Screen Split Size 0 in.	
Plotting Keep Grid Alig Ruler L	Options — p Paper Ce I Alignmen gnment Sp .ocation	Intered on Screen Split Size 0 in. It Paper Colour WHITE ✓ I Top I Bottom I Left I Right Fill Pattern Resolution in PDF Output (dpi) 300	~
Plotting ✓ Keep ✓ Grid Ali <u>c</u> Ruler L ✓ Forc	Options — p Paper Ce l Alignmen gnment Sp .ocation e OneX lin	Intered on Screen Split Size 0 in. t Paper Colour WHITE ✓ Top ♥ Bottom ♥ Left ♥ Right Fill Pattern Resolution in PDF Output (dpi) 300 se weight to 1px on PDF Zoom	~
Plotting Contemporation Con	Options – p Paper Ce l Alignmen gnment Sp .ocation E :e OneX lin c Scale for ale 1: 1	Intered on Screen Split Size 0 in. t Paper Colour WHITE ✓ Top ♥ Bottom ♥ Left ♥ Right Fill Pattern Resolution in PDF Output (dpi) 300 All Plotting Viewports	~
Plotting Kee Grid Grid Alig Ruler L Forc Scale Lock Sca Auto Cre	Options — p Paper Ce l Alignmen gnment Sp .ocation E e OneX lin e OneX lin ale 1: 1 1	All Plotting Viewports	~
Plotting Keep Grid Grid Alig Ruler L Grid Scale Cock Scale Auto Cre Nort	Options - p Paper Ce I Alignmen gnment Sp cocation : cocation : c	Intered on Screen Split Size 0 in. t Dearing 0.4 in. Paper Colour WHITE ✓ Top ♥ Bottom ♥ Left ♥ Right Fill Pattern Resolution in PDF Output (dpi) 300 a weight to 1px on PDF Zoom All Plotting Viewports g Attributes Scale Bar	~
Plotting Grid Grid Grid Grid Grid Grid Content Conten	Options – p Paper Ce l Alignmen gnment Sp Location E ce OneX lin ce OneX lin ce Scale for ale 1: 1 cate Plottin th Arrow [All Plotting Viewports	~

Select the **Force OneX line weight to 1px on PDF Zoom** check box to force the 'OneX' line style weight to be 1 pixel wide regardless of the zoom level in the resulting PDF file.



Force OneX Line Weight Enabled



Force OneX Line Weight Disabled

MineScape 2021 also provides the ability to compress PDF plot files produced through Plot Designer. Compressing PDF files allows you to reduce the overall file size of your resulting PDF plot files while maintaining image quality.

These plot settings, which are listed under the **Compression** tab of the **Plot Settings** form, are accessible through the **Plot** » **Settings** option under the **Plotting** ribbon.

🔅 Plot Settings	?	×
General Compression		
Allow Resizing JPEG		
Longest JPEG Dimension 1600		
JPEG Quality (low) 1 2 3 4 5 6 7 8 9 (high)		
✓ Allow PDF JPEG Conversion		
✓ Allow Resizing Image Dots Per Inch		
Subset Embedded Fonts		
Restore Defaults		
с	lose	

New Storage Location for Hotkey Mappings

Hotkey mappings for MineScape 2021 are saved to a file named 'minescape.hotkey' under your 'C:\Users\<user name>\AppData\Local\Datamine\MineScape\2021' folder. Hotkey mappings in previous version of MineScape are stored in the 'default.minescape' file.
Spreadsheet Editor Updates

Microsoft Excel files can now be exported to PDF directly through MineScape's **Spreadsheet Editor** utility. Use the **Save As** and **Preview & Print** options from the **Spreadsheet** ribbon to export an existing '.xlsx' file.



Text and fill colours can now also be applied to cells within the Spreadsheet Editor utility.



Defects

This section lists all bug fixes and corrections delivered through MineScape 2021.

- #23725 : Seams incorrectly modelling through boreholes when they should be pinched out
- #24765 : Verticality data erased once drill hole edited through StratModel's correlation tool
- #25536 : Changes in 2D graphics validation issues not flag as warnings in GDB
- #25793: GDB relating table column to sedimentary lithotype column
- #28137 : Unable to run the batch file from reserve functionality
- #28491: Table postings results differ from resource classification postings
- #29217: Filter vertex option not working
- #29325 : Display issues with shapefiles in MineScape
- #29674 : Product loading license bug
- #29754 : Fatal error when updating GDB sizing table
- #30015 : Unable to perform selection and panning in CAD
- #30041 : Unable to import drill hole data from a CSV file
- #30237: Unable to display JPG images registered in an earlier version of MineScape
- #30445: License incorrectly treated as being borrowed from server
- #30469 : Multiple errors in GDB
- #30482: MineScape crashes when loading form spec
- #30485: MineScape crashes when wifi/network connection is down
- #30486: MineScape crashes when wifi/network connection is down
- #30488 : MineScape crashes when loading form spec
- #30489: MineScape crashes when wifi/network connection is down
- #30491: MineScape crashes when wifi/network connection is down
- #30507 : MineScape crashes after editing element colour
- #30509 : MineScape crashes when trying to dock Module Monitor tab
- #30519: MineScape crashes when trying to update temporary graphics
- #30521: MineScape crashes when project is changed and 'Pick element' prompt is active
- #30522: MineScape crashes when loading form spec
- #30524: MineScape crashes when wifi/network connection is down
- #30531: MineScape crashes after editing element colour
- #30570: Miscellaneous texture and Geotiff issues
- #30572 : Module error when running StratModel contour
- #30596 : MineScape crashes after editing element colour
- #30808 : MineScape crashes when wifi/network connection is down
- #31190 : Line weight and marker issues in text element space when generating PDF through Plot Designer

#31396 : Polygon centroid results are different across MineScape

#31440: Triangle prism is not clipped to topo surface

#31442 : Annotation to text output characters and orientation

#31538 : Element markers in lines, polygons, and text. Incorrect viewport count message. Text and lines overlap in PDF

#31681: Temporary files left after processing table file graphics

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.

- 17/2-	-	
File TFL TRIALA GRD	Type MineScape Triangulation MineScape Triangle Spec MineScape Grid	O Single File Filename V Erowse
DM DWG	Maptek Vulcan Datamine Studio AutoCAD DWG	MuttpleFiles Folder V Browne.
FBX GLB GLTF MSH OBJ PLY STL TS	Automotive Finishot Carlos Tenerorismo Format Gi, Tamenismon Format (ACO) Leiphong Mah Alas Wavehank Olipet Saturdei Taugel Format Serenelshopstehy GoCAD Transpulated Surface	Net - Meta - More A - 3D Solids - 3D Form - 3D Form - Orgat - Orgat - Name

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 MineScape 2021. The **Draw Polygons** check box has also been added to the **Create Surface** form.

reate Surface	? 🔖? 🖵 — 🗆 🗙
General	
Breakline Tolerance 1E-05	
Mesh Inside Polygon	
Add Vertical Triangles	
Calculate Polygon Matrix	
Trim Surface	
No Islands	Trim Interior Trim 2D
Max Length -1	Min Angle 1
Minimize Flat Triangles Flat Facet Tolerance 0	Minimize Flat Facets
Relimit Boundary	
 Delete Outside 	
 Delete Inside 	
Draw Polygons	
Whole Facets Only	
	Ok Cancel

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

🔅 Graphics Settings			
Graphics CAD RepidCAD Drawing & Panning Colours Cursor Picking & Snapping Selection Zoom & Scale Rotation Performance	RapidCAD Enable Quick Edit Toolbar Enable Quick Element Options Enable Quick Input Box Image: Constraint of the second sec		_
		Close	

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.

Anternet Minescape Mineschool Anternet State	1	Search Q.
MineScape 2021	Î	You are here: <u>CAD</u> > Viewing Data
What's New in MineScape 2021	17 -	008
Getting Started	-	Viewing Data
File and Data Types	*	MineScape's CAD window provides a number of facilities that allow you to view a single element or a collection of elements. The facilities available provide an extremely powerful display tool that can be used to manipulate graphical data in an almost unlimited manner.
CAD	•	By using one or a combination of the viewing facilities, you can obtain whatever view of a model that you want. This power is increased through the use of multiple CAD windows displaying different views of the
Ribbons	-	same data.
Viewing Data		For example, you can look at a design by simultaneously displaying top, left and front views.
Rotate Data	-	Facilities are provided to:
Pan Data		Display the full extent of the data.
Slicing		Change the current view.
Selection Sets		View a cross-section of the data.
CAD Elements	-	Save the current view so that it can be recalled at a later date.
Interpolators	-	Redraw the current view.
Form Help	-	Note: None of the above facilities change the actual data in the design file, merely display the data at the required orientation and scale.
Plot Designer	-	

Click the o 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 hep 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.

Defects

#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 - MineScape crashes when refreshing viewport

Problem: MineScape crashes when refreshing viewport.

#33006 – MineScape crashes when clearing annotations

Problem: MineScape crashes when trying to clear annotations.

#33045 Module crashes when validating strip line for engineering solids

Problem: SERVMESH 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 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.

Comprophic Name Grid) V U – D X	👽 Geographic Base Grid 🦙 🔖 📮 🗆 🗧
Design file	Laper (General Major & Minor Coordinate
Location of God		Output Design File Append
Deel Name * Deman Design Alle *	Donain Polygen	Layer ~ Title
Major Guil Daylay Major Poperties	Gold Lines or Robert Lines • Deping Definition	 Elevation of Grid metres
More Did Digits Resident Misson/Major for Language Ramiber MinochAger for Latitude	Good Lines on Papers - Lines	Umits Sheet Name Domain Design File V
Condition Diploy Option Det Postor Number Desting Parts Number	Drugsly Definition	Domain Polygon
#B•	Ok Apply Canal	📷 🗄 🕶 Ok Apply Cancel

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

Sreate nev		?	Q		Х			
- Layer Informat	Layer Information							
Design File	demo_up	~						
Layer								
Description								
	Open layer for write							
	ОК	Apply	/	0	Cancel			

Explorer Tab Enhancements

The **Explorer** tab's right-click **Import** and **Export** options have been removed. These option 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 $\ensuremath{\text{Display}}$ 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 \bowtie 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.

X: 89772.485 🔐 🕶 🖸 🔽	
Distance	Y: 20000.000 🔒 - 🕑 🔽 🗙
Angle	⊕X
Bearing	v v □ z
Gradient	Clear All
Delta XYZ	

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.

Height Cue - Pick 1st Colour - (MAIN)			×
Choose Colour Palette			
Pastel 2 Colours			•
Start Height - End Height - G	radient		
Out of Bounds Data: O Shadow O Black O V	Nhite 🔵 N	No Char	nge
[Remove	Appl	y

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.

5 Mesh Export			? \ ? I	🖵 – 🗆 X
File Type	MineScape Triangulation			
File Type	Output			
MESH MineScape Mesh	Folder			Browse
TFL MineScape Triangulation				biolise
DM Datamine Studio	Filename			
DWG AutoCAD DWG DXF AutoCAD DXF	Overwrite Create Surface Definition]		
FBX Autodesk Filmbox				
GLB GL Transmission Format				
GLTF GL Transmission Format (ASCII)				
OBJ Alias Wavefront Object				
PLY Stanford Triangle Format				
STL Stereolithography				
📑 🗄 🕶		Ok	Apply	Cancel

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

🛕 🗖 SURFACE_UI A 🗖 surfaces	N		
	RRENT_TOPO		
Icopo_nat_TOF Microsoft Office	Dedit	✓ Confirm	
Mining Polygons	🖺 Сору		
Orientation Grids	🗙 Delete		
🕨 🖚 Planes	🗐 Rename	Create a triangle su	urface definition?
🕨 🚔 Plot Designer	➡ Convert to ►	-	
Point Clouds		Ok	No
Polygon Solids		Ok	NO

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.

S	Mesh Expa	nd	?	₹?	₽	—		\times
_ In	put Polygon							
	Draw Poly	gon						
	Pick Eleme	ent						
C	Offset Fro	m Bound	lary By		Μ	letres		
	ptions Maximum nu	mber of	genera	ated	vertice	es 50	0000	
-	•		Ok			Car	ncel	

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.

🤝 Imp	ort Design Data		?	₩?	-		×
File Typ	e	Surpac					
File	Туре	□ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □					
STR	Surpac						
DM	Datamine	Data File 🗸					
DGN	Vulcan						
DXF	AutoCAD DXF/DWG	Output					
ASC	ASCII	Design File 🗸 Layer 🗸 🗌 Append					
XYZ	Minex	Title					
DAT	MineScape Data						
📑 🖻	•	Ok	Apply		C	ancel	
		- OK	. wpy				

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.

🏷 Export	Design Data		?	\ ? ⊑	- 1	ο×
File Type File DAT DAT DAT DAT DAT DAT DAT	Design Data Type MineScape Data MineScape XYZ Datamine Vulcan ESRI Shapefiles XPAC Dump	Datamine Input Design File Search Layers Files File Directory File Name Element Name	?	▶? □		
- 13 i		Ok	Apply		Ca	ncel

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.

Plotting Variables			? 🖵 🗆	×
Predefined Custom				
Variable Name	Value			^
*				
				~
	Ok	Apply	Cancel	
Global			? 📮 🗆	\times
Predefined Custom				
Global Variable Name	Value			\sim
*				
				<
	Ok	Apply	Cancel	

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.

Stratmodel Manager - New	, jo i jo
Stratmodel Schema Model Defaults Uthology Elements Compound Survey Conformable Limits Faults Status Satus Beached Grid	Table Input Design File Search Layers Hole Name Template Output Report File Controls Modeling Steps ALL Optional Penetration file V Constraint File Steet Spec
	Inclined model and hole adjustment settings Search Layers Hole Name Template Plane Name Azimuth Slope Mesh Group Mesh File Fix adjustment
≅ ₽•	Build Draw Schema Save Schema Close

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.

Stratmodel Manager - Edi	it (umina nat) ? $\mathbf{k}^2 = -$
- Stratmodel	Model
E Schema	Schema
Model Defaults	Name umina_nat v
Lithology	Model Files
Elements	Table File umina_nat ~
Compound Survey	Grid File umina_nat v
Conformable	Modelling Controls
Eaults	Topography Topo_Nat ~
Status	Model Ontions All
Resolved	
⊡ Build	
Table	Minimum Hole Separation 0.5
Ghu	Interval Weighting 100
	Burden Weighting 5
	Interpolation Controls
	J Display Missing intervals
	Display all Compound Intervals as Elements
ii 🗄 🕶	Draw Schema Save Schema Close

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.

🎾 Import Drill Holes	?	\ ?	Ð	-		\times
Schema Name v						
Input Survey Data File						
Output						
Design File Layer	~					
Survey Report File Lithology Report File Overwrite Existing Reports	~					
Controls						
Format Survey Lithology	hic U	nit ogy an	d unit	are en	×	
Survey Display Definition	holog	y Code	9		, p cy	1
Not Logged Display Definition	ogy C	ode				
Ok	App	ly		Can	cel	

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.

S	Update drillhole lithology	?	₹?	Ð			×
[Schema Name umina_natt v Input Design File Lithology Data File Ignore empty lithology Lithology Format Spe	ec	Miner2			~	
	Overwrite Existing Reports Lithology Report File					~	
	0k	Ap	ply		Car	ncel	

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.

	• ? ▶ ? 🖵 — 🗆	
Mesh Input		
Mesh Group	· ·	
Topography Me	sh RR01_07 ~	
Direction		
Top Down	O Bottom Up	
Rench Polygon	Intion	
Draw Polygon	Prove Rench Cut Angle 90.0000	
Draw Polyg Evisting Els	east	
Existing Ele	N Assign Cut Angle	
ID	Assign Cut Angle	
Bench Bottom		
Lise Surface		
Schema	 Model Type 	
Surface Na	ie Y v	
	7	
O Pick Elemen	tZ	
 Pick Element Bottom Z 	0 L 3	
 Pick Element Bottom Z Use Bench 	t Z 0 bec	
 Pick Element Bottom Z Use Bench Bench Speci 	t Z 0 pec	
 Pick Element Bottom Z Use Bench Bench Spect Bench Name 	t Z pec	
 Pick Element Bottom Z Use Bench Bench Spect Bench Name 	t Z pec · · · · · ·	
 Pick Element Bottom Z Use Bench Bench Spect Bench Name 	t Z pec	
Pick Elemei Bottom Z Use Bench Bench Spec Bench Nam Output Mesh Group 2	t Z pec fault	
Pick Elemen Bottom Z Use Bench Bench Nam Output Mesh Group Bench Mesh Bench Mes	t Z pec fault * 348ENCH	
Pick Elemen Bottom Z Use Bench Bench Spec Bench Nam Output Mesh Group Bench Mesh Bench Mes	t Z pec fault v 34BENCH	
Pick Element Bottom Z Use Bench Bench Spec Bench Nam Output Mesh Group Bench Mesh B	t Z pec fault v 348ENCH	

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

				Bench Blocks		
Open Cut	Scenario لە515 م	Angle 90 The Cutter Lines	Create Bench	Cut Start End Tooltip	Calculate Reserve Output	Bench Blocks to DTM Rapid Update

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

				Bench Blocks		
Open Cut	Scenario b515 -	Angle	Create	Cut Cut Toggle Start End Tooltip	Calculate Report Reserve	Bench Blocks to DTM
	Start	Cutter Lines	Bench	Interactive	Output	Rapid Update

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.

🎐 Project Create	?	h ? (- 0	o ×	1	🖻 New Project	?	? 🗆 – 🗆 ×
- Project Details		Setti			ſ	Project Options		
Project Name		ngs I			Ш	Project Name		
Hemisphere	NORTHERN	More.			Ш	Hemisphere	NORTHERN	
Spheroid	A.N.S.				Ш	Spheroid	A.N.S.	
Scale Factor	0.9996000				Ш	Scale Factor	0.9996000	
Latitude Origin	0 00 0.00				Ш	Latitude Origin	0 00 0.00	dms
Central Meridian	0 00 0.00				Ш	Central Meridian	0 00 0.00	dms
Northern Parallel	0 00 0.00				 Ш	Northern Parallel	0 00 0.00	dms
Southern Parallel	0.00 0.00				 Ш	Southern Parallel	0 00 0.00	dms
Dir. from Greenwich	EAST				Ш	Direction from Greenwich	EAST	
False Northing	10000000				Ш	False Northing	10000000	
False Easting	500000				Ш	False Easting	500000	
Base Elevation	0.000				Ш	Base Elevation	0.000	metres
Default Elevation	0.000				Ш	Default Elevation	0.000	metres
🗃 🗄 🔹 👘 👘	Ok App	ły	Can	cel		📄 🗄 🔹 🛛 Ok	Apply	Cancel

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.



System									
Database	SQL Serv	er			~				
New Databa	se								
Server					~				
Authenticat	ion				~				
User Name									
Password									
	Ente	er server	and cr	edentials	to check n	ns_surve	ey logii	n	
	Ente	er server	and cr	edentials	to retrieve	databa	ise list		
Connection I	Details —								
SOL Auth C	onnectio	n Namo					~		
JQL Addi C	onnection	rivanie							
🗸 Add cur	rent Wind	dows us	er as se	erver logi	n and data	ibase u	ser		
Windows A	uth Conn	ection N	lame				~		
Database Inf	ormation								
Language		Englis	h (Unite	ed States)					
Collation		Latin1	_Gener	al_CI_AS					
Filegroup D	irectory	Defau	lt						

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.

Admin			
5	New Database		
	Survey Login		
	Survey Logout		
	Graphical Attributes		
5	Default Codes		
2	Add Survey Schema	to Existing Da	tabase
Add Survey Sc	chema to Existing Databa	se ? ∖ ?	Q – O X
Connection			
Database	demo	~	
Database System	SQL Server		
Authentication	SQL Server Authentication	1	
User Name	gdb		
Password	***		
Information			
Filegroup Direct	ory Default		
	Ok	Apply	Cancel

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



Defects

#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 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.

File	Type	- Input
DAT	MineScape Data	DYE/DWG File bdv concession
DM	Datamine	
STR	Surpac	Search Layers lup
DGN	Vulcan	
DXF	AutoCAD DXF/DWG	Output
ASC	ASCII	Design File acad_meta *
XYZ	Minex	
		Layer Concession V Append
		Title
		Constant Easting Colour Constant Northing Line Style
		Maintain Separate Layers ✓ Add Metadata 3rd Duadrant
		Support older version of AutoCAD
		Use Approximation
		Curves Vertex Density (Factor 1-10)

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.

<u></u>	tout File Name	line ov	aart	~		
Ou	tput File Name	ine_ex	JOIL	-		
	Use MineScape	Layer Na	ame			
	Design File		Layer		AutoCAD Layer Name	
►	export_test	~	Line_01	~	New_Line	
*		~		~		

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.

Groupsylin Ross Grid	1 V U - O X	🂔 Geographic Base Grid ? 🔖² 🖵 — 🗆
Despete	1444 (1)	General Major & Minor Coordinate
india Basis Alul		Output Design File v Append Layer v
brear beigt file *	Donais Mégan Grid Lines in Rooks, (1999)	 Title Location Bevation of Grid metres
Normer spinorg Normer Sind Diagna Normer Monor/Magin for Langitude Normer Monor/Magin for Landia	End Long of Rame, (1999)	Umits Sheet Name * Domain Design File *
San Paralaga (Sanaka	Display (Selimina) (C) - Mare (C) - Nex Selic for Longiani Nex Selic for Longiani	Domain Polygon
8.	Di Ayriy Canal	📸 🗄 🔹 Ok Apply Cancel

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.

Reserves to XPAC	?	? 🖵	- 0	×
Input				
Reserves Table File		×		
Reserve Block Design File		~		
Settings				
Reserves Table				
Block Name Column	~			
Ore Column	~			
Bench Column	¥			
Character Positions				
Reserve Block - Pit				
Reserve Block - Cut				
Reserve Block - Block				
Bench Column - Bench				
Include X and Y Centroid				
Output				
Reformatted Reserves Table		×		
XPAC Reserves Import File		×		
≈ ₽	Apply		Cancel	
	nthh		Cancel	

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

	olygons to XPAC			? R?	Lelp	-	
npu	(
Res	erve Block Design File			~			
Ref	ormatted Reserves Table			~			
Out	out						
XPJ	AC Polygon Import File			×			
Setti	ngs						
Ber	nch Definition		× [Popula	te		
	Bench (Subset) Name		Bench Bo	ttom Surfa	ace		
*		×				Υ. Υ	

Improved GDB Forms

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

Colga		😗 Geographic Base Grid ? 🦎 🖵 🗆
Design File *	tape (General Major & Minor Coordinate
Develop of God		Output Design File
Sheet Name	Donas Niyyar	Layer v Title
Nger Gol Digity Mig Pagelan " Longholde Sparing Latitude Sparing	Grid Lines or Rases, Lines	 Location Bevation of Grid metres
Number Ded Daylog Number Mitter/Major for Longitude Number Witter/Major for London	tiod inter or Name, Symposium	Umits Sheet Name
Canadiante Darlais Egenera bast Paratase Nacitates Desimate Parase Sant Para La Canadiantes	Digate (behalase 2 - Minor 2 - Nat Loffic for Longitude	Domain Design File Domain Polygon
But Parks tor cattern	Ter Saffa for Lances	Second Cancel

Surface Engineering

Open Cut

Open Cut Enhancements

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

to get Short Range Short Range Planning Rap	me Just In- time DTM Auto Line Excav Projection Desi	ation Dump Tag Interf Project and Isgiwali Segments Ramp Offset Selance Selance Interface Finish Profile Balance And Profile Balance And Profile Balance Ramp Sector Secto	Project Triangulate Ramp Cut & Fill Projection Process Caldouts Walkroute Caldouts Walkroute Graphic
		Walkroute Grade Check ? Input Distance Interval Output Design File Layer Text Size Text Size Text Size Text Size Text Size Text Colour Valke Text Size Text Colour	
		CAD Apply Cancel	

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.

	Strip F	Planning								
Open Cut	Create Solid In Boundaries Inter	terval rsection	Generate Strips	Manage Convert n Strips • to Strip	Lines to Polygon: Polygons to Block	s Tag I s Segments	Lines to Solids	Project Highlight	Layout	Functions
	Mining So	olids			Mining Polyc	jons				Legacy
		🍤 Б	port to Tempo		ķ ?	₽ -	D X			
		Scena	rio	~						
		Desig	n Data Input					-		
		Desi	gn File				~			
		Sear	ch Layers							
		– Desig	n Data Output —					-		
		DM	File				¥			
		Reser	ves Input							
		Mine	Scape Table File				~			
		Reser	ves Output					-		
		DM	File				~			
		= 1	-	Ok	Apply	Cano	el	***		

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.

🛱 Options		? ×
MineScape Core Auto-Updates & Rollback Cloud Overrides Miscellaneous Database Session	Editor Text Editor Network Network Network Refresh Rate (milliseconds) 600	Browse
E Lists	Right Click History Size 5 Clear History Items	Selection Set History Size 10
	Date Date: DMY Long × 10/December/2021 Time: 24 hour × 10:46:28	Default Editor Spreadsheet Editor Microsoft Excel
	Confirm Options All On Options Description Confirm Con	n
	Licensing Maximum Duration Time(hours)	
	System Debug	
		Close

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

Output	Output
Report File	Excel File
Paper *	Report Description
Display to Form	Paper
Civerwrite Existing Report	Apply Style Formatting
Output	Output
Cutput Report File	Output Excel File
Output Report File Paper V	Output Excel File Report Description
Output Report File Paper Display to Form Display to Form	Output Excel File Report Description Paper V

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 **Graphics** 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 MineScape.



The yellow **Maintenance Expired** warning message indicates that MineScape 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 MineScape 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

#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 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 MineScape 2021 Update 3.