



RELEASE NOTES

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Release Notes 2022.09

This document contains the descriptions of new commands and improvements that are included in the **2022.09** version of Promine. These are valid from the release of the version the **August 01st, 2022**.

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New features

Module: Solids



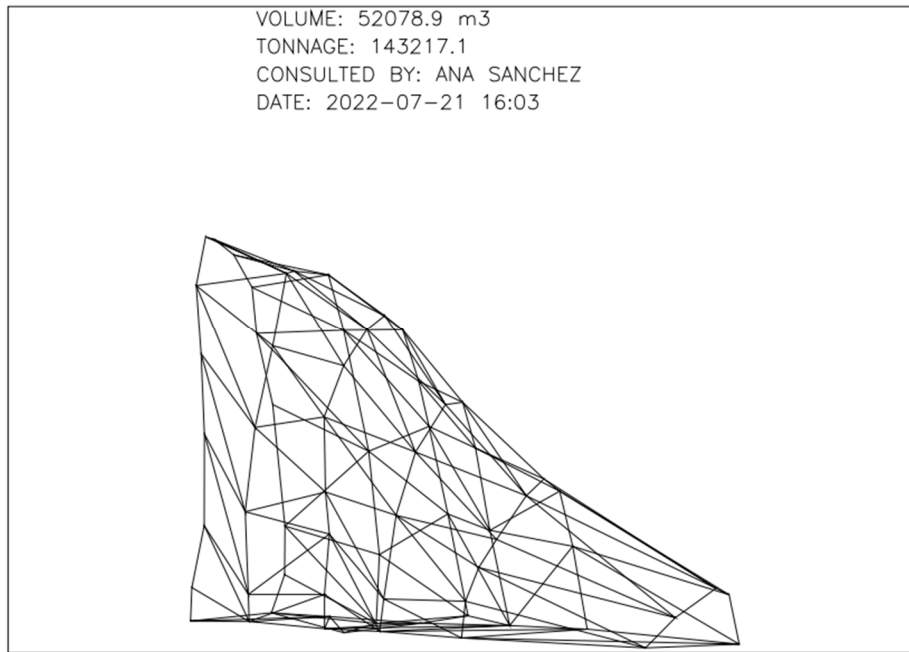
PROMEX – Export solid

This new feature called PROMEX has been added to the Solids module. With this new command, the user can now select a solid in the drawing and save it into a PDF file with the following information: the volume, the tonnage, the user, the date, and the solid.

Steps to use PROMEX :

1. Select the PROMEX command
2. Select one or more solids.
3. The following window will appear:

4. After selecting the density and swell click ok.
5. Now the user can select a folder to save the file.
6. The result will be the following:



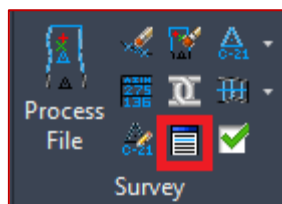
Module: Survey

SRVFL – Flatten up back and floor polylines

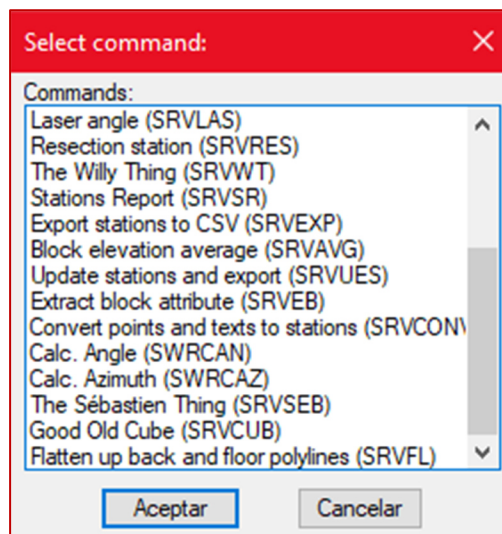
The new command (SRVFL) was made to align the back and floor polylines when the drift is looked at from the top view, to have a cleaner look. In a view from one of the drift's side, it will not change the heights of the original polylines.

Steps to use it :

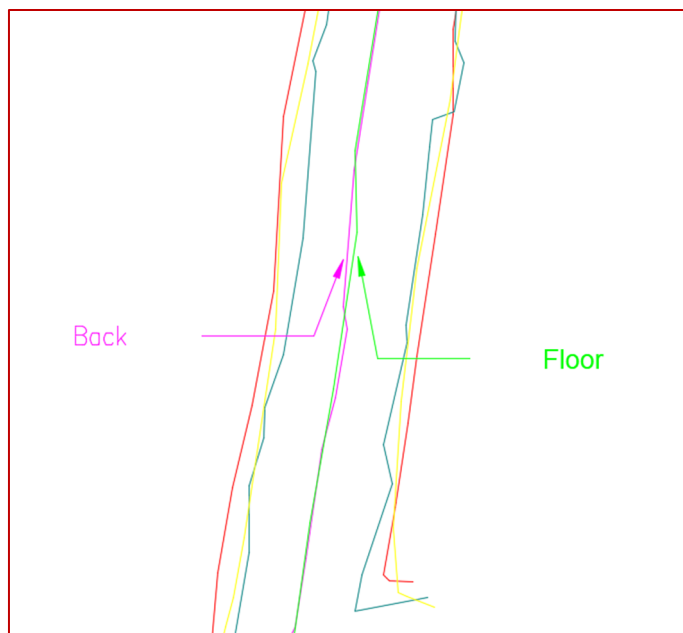
1. Go to the customized commands in the SRV module



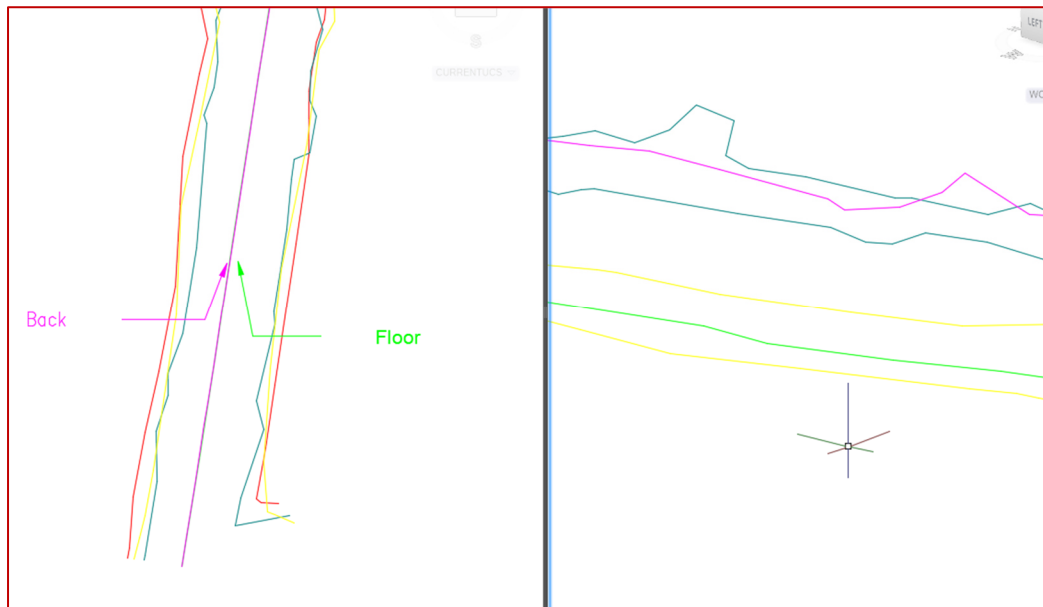
2. Click on the « flatten up back and floor polylines » (SRVFL)



3. When the command prompts the user to select the objects, the user must select back and floor polylines



4. The result will be the following :



It will align the back and floor lines without changing their height

Module: Dilution

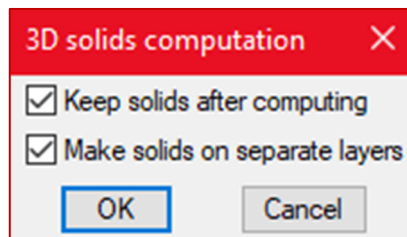


DILSOL – Compute with 3D solids

The command DILSOL was made in the Dilution module. This command was made to give the user an option to analyze the dilution of the whole solid and not just of a section. With the command DILSOL, the user will have different solids of the ore and waste analyzed that can be separated into layers to edit if necessary.

Steps to use DILSOL

1. Select the DILSOL command
2. The next window will appear:



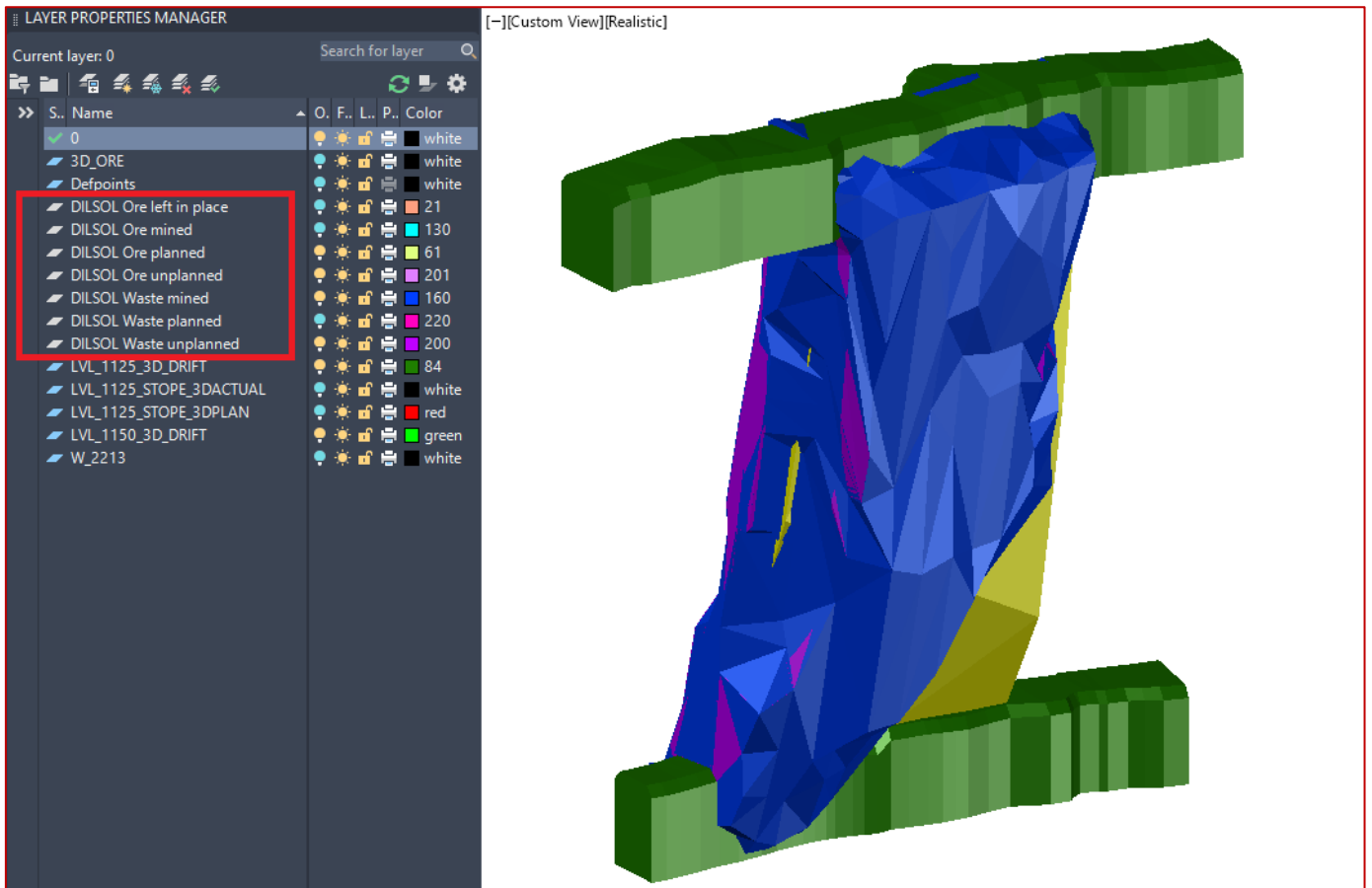
3. Check the box as needed
4. The software will prompt the user to select the following objects:
 - Select plan solid :

- Select actual solid:
 - Select ore solid:
 - Select void solids:
 - Select backfill solids :
5. After selecting all the solids hit enter.
 6. The result will be the following :

A report with different dilution analysis

Dilution Report	
Type	Tonnage
Ore planned	3026.9
Ore mined	2741.9
Ore unplanned	0.1
Ore left in place	285.1
Waste planned	3317.1
Waste mined	4229.7
Waste unplanned	2100.2
Waste left in place	N.A.
Backfill planned	N.A.
Backfill mined	N.A.
Backfill unplanned	N.A.
Backfill left in place	N.A.

Different solids of each analysis in their respective layer



Notes:

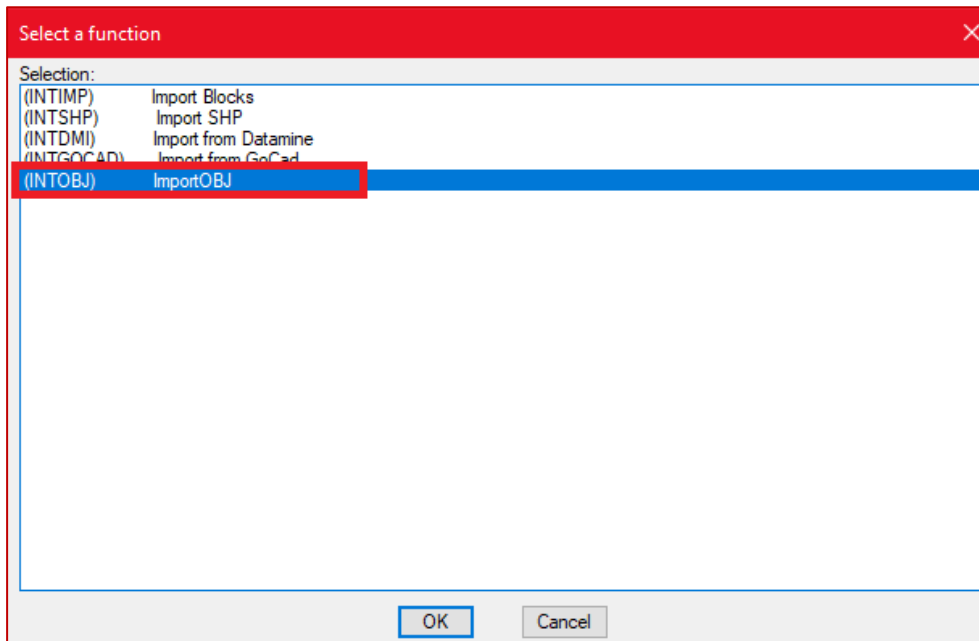
- the minimum requirements for this command to function are the planned and the actual solid. In that case the report will give just the dilution result.
- The items that are in the report as N.A will not have new layers created.

Improvements

Module: Interface

INTI – Import

With this a new improvement in the Interface command the user is now capable of importing .OBJ files. It will only create the mesh, that is part of the file and not assign any colors to it.



Module: Drill/Blast underground

DRILH – Load Holes

With this new improvement the user can now edit the figure, the scale and the color of the boosters in the options. The user can now choose between circle or square to represent their boosters.

Steps to edit the boosters:

1. Go to the option in the Drill/Blast underground Module (DRIPREF)
2. Click on the "explosives" button
3. Once in the blasting preferences go to the boosters' configuration, select a booster and then click on edit

Preferences - Blasting

Blasting

- ☐ Use of decks in loading
- ☐ Annote depth on hole
- ☐ Limit charges at a polyline
- Explosive collar: 1.250
- Height of the explosive deck: 12.000
- Height of stemming between decks: 2.000
- Maximum explosive deck distance: 15.000
- Burden between rows: 1.000
- Polyline width for explosive: 0.250
- Specific gravity of rock: 3.600
- Powder factor annotation scale: 1.500
- Influence of explosive: 2.000
- Spacing of analysis: 0.500

Plug

- ☐ Use length of plugs
- Plug (m): 1.00
- Breakthrough

Delays

- Surface delays: SHORT
- In the hole delays: SHORT
- Scale of the surface delay block: 1.000

Explosives

- EMULSION
- STEMMING
- APEX ULTRA 3"
- ANFO HD
- Default explosive: EMULSION

Boosters

- APEX SUPER 1000
- APEX SUPER 6000
- Default booster: APEX SUPER 1000

OK Cancel

- Once in the edit booster window, select the scale and the shape of the boosters

Add / Edit Booster

Name: APEX SUPER 1000 Density: 1.160

Tag: APEX SU 1000 RWS: 96.000

Block type

☐ Circle ☒ Square

Block scale: 0.500

Colours... [Pink Swatch]

Diameter: 0.200

Length: 0.000

Weight: 11.111

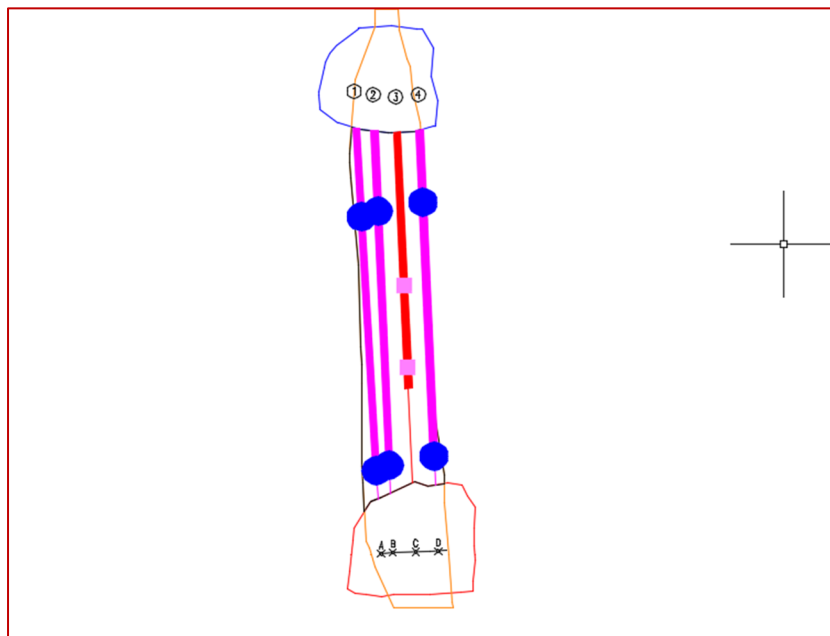
Cost: 1.000

OK Cancel

- Click OK once the set up is completed to save the changes

6. Now to insert those boosters the user must go the command “Load Holes” (DRILH)
7. The next window will appear:

8. Check the “use boosters” checkbox
9. Configure the boosters to add and click OK
10. Pick the load starting elevation
11. Select the holes to load
12. The result will be like the following:



In the image above we can see the different figures of boosters and scales (the pink squares and the blue circles)

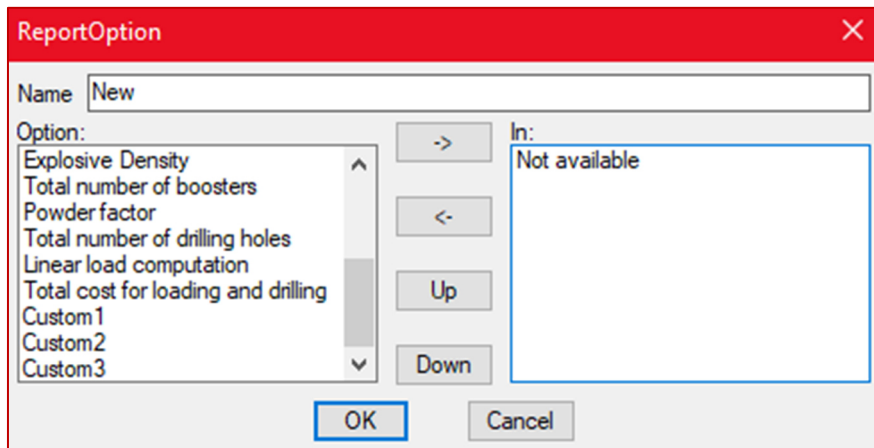
DRISS – Stope summary

With this new improvement, the user has now the option to insert a new report, completely customizable, apart from the one that was set previously (completely pre-designed).

Before inserting the report, the user must configure it.

Steps to configure the new report

1. To configure the report, go to the options of the Drill/Blast Underground module (DRIPREF)
2. Click on the button “Customize reports”
3. Now click on the button “Stope summary”
4. Then click in “Add” to add a new report
5. The following window will appear:



6. Select an option and then click on “>” to insert that option into the report
7. Once the report is configured click OK to save the changes

Steps to insert the new report:

1. Click on the Stope Summary command (DRISS)
2. Select the holes
3. The next window will appear:

Summary values: X

Drilling cost (\$/m)

Loading cost (\$/m)

Burden:

Rock density

☒ Basic Report

Report

Default

4. Select the report and click OK to insert. Ensure to uncheck 'Basic Report'. The result will be the following:

Default		
Rock density	kg/m3	1.000000
Total Tonnage	tons	32.6904
Diameter – 0.0640	m	12.4075
Diameter – 0.1000	m	38.5112
Total drilling length	m	50.9187
Explosive – PLUG	kg	0.0000
Explosive – EMULSION	kg	36.5133
Explosive – ANFO HD	kg	259.3812
Total explosive weight	kg	295.8945
Drilling holes average length	m	12.7297
Density – PLUG	kg/m3	1.0000
Density – EMULSION	kg/m3	1.2500
Density – ANFO HD	kg/m3	0.9300
Total number of boosters	Unit	6
Powder factor	kg/t	9.0514
Total number of drilling holes	Unit	4
Linear load computation	kg/m	5.8111
Total cost for loading and drilling	\$	259.3812
Custom1	–	–
Custom2	–	–
Custom3	–	–

Note: to insert the previous report, the user can check the option “Basic Report”

