

MineSched 2021

Enhancements

Miscellaneous

- **Changes in spreadsheet tooltips**

When you use spreadsheet tool tips, you will see these changes:

- Tool tips now only display when you hover your cursor over column headings in a spreadsheet.
- When you hover your cursor over a specific column heading, in either a spreadsheet or the original data grid, the tool tip you see will be same.
- When you change localization of MineSched to Chinese or Russian, tool tips are displayed using the language you selected.

- **.NET upgraded to version 4.8**

MineSched now uses the .NET version 4.8.

- **Column name changed in the Variable drill rate data grid**

The **Drill rate factor** column has been renamed as **Drill rate derating factor** (**Setup Schedule > Locations > Surface > Drilling** tab > **Variable drill rate** data grid).

- **Support for Undo and Redo functionality for spreadsheets**

Undo and redo functionality is now supported for all spreadsheet tabs, with the following exceptions:

- **Setup Development > Development Progress Tracking**
- **Setup Schedule > Production > Activities > Activity Rates**
- **Setup Schedule > Production > Activities > Activity resource capacities**

Note that the history of operations performed in the spreadsheet is cleared when you:

- Switch between spreadsheets on different tabs
- Select the **Manage Links** option in the **Spreadsheets** menu

Setup Schedule

- **Specify the drill rate factor for each material class**

You can use the new **Vary drilling rate for material types** check box to specify the drill rate factor of each material class (**Drilling** tab of the **Setup Schedule > Locations > Surface** and **Underground** tabs).

In the **Drill rate factor** column, you can enter values between zero and one (up to three decimal places) for each material class.

- **New Material Percent column in Graphical Sequencer**

You can use the new **Material Percent** column to display the percentage of a material class in a polygon (**Setup Schedule > Locations > Mining** tab, in the **Reports** data grid).

The total material percentage appears when you use the **Group** column for grouping.

- **Modify the duration for drilling activity based on material types**

To define the drill rate factor based on the material classes in the **Variable drill rate** data grid, select the **Vary drill rate for material types** check box (**Setup Schedule > Locations > Surface and Underground** tabs).

The drill rate factor cannot be greater than one, and depends on the hardness of the materials at a specific location.

After you run a schedule, the location's **Duration** value in the **Activities Gantt** tab varies according to rate of drilling activity, or the defined **Drill rate derating factor**.

- **View updated Material classes list after adding or removing geology models**

If you select the **Vary drill rates for material types** check box (**Define Geology > Models** tab), then the **Material type** column in the **Variable drill rates** data grid will show the updated material class for any added, deleted, or updated geology model.

Any changes made to the models are applied in the **Variable drill rate** data grid for all active locations.

- **New check box to acquire drill rate derating factors from a CSV file**

You can use the new **Use CSV file** check box to acquire drill rate derating factors from a CSV file (**Setup Schedule > Locations > Surface > Drilling** tab and **Setup Schedule > Locations > Underground > Drilling** tab, in the **Variable drill rate** section).

The **Use CSV file** check box is available when you do the following in the **Work** section:

- Select the **CSV file** option from the **Quantity** list.
- Select a CSV file in the **CSV file** field.

- **Applying Drill Rate Derating Factor from Drilling Activity CSV File**

When you select the **Use CSV file** check box in the **Variable drill rate** section and create a schedule:

- The drill rate derating factors are acquired from the CSV file.
- The duration values for drilling a location, polygon or objects are updated in the Gantt charts.

If the Drill rate derating factor is undefined, or the values are not between zero and one for any location, polygons, or objects, an error message is displayed after running a schedule.

POWER'BY

- **Generate Standard Reports in the 3DEXPERIENCE folder**

When you click the **Publish Results > Standard Reports > Export to CSV file** button, the file is copied to the **3DEXPERIENCE > Reports > Standard Reports** folder for a specific scenario.

You must specify a file prefix before exporting the standard reports.

Note that now, when you run a schedule, the standard reports are no longer copied to the **Scenario > work > Results > 3DEXPERIENCE** folder.

- **New file prefix option available in the Custom Reports tab**

You can now specify a file prefix in the **File prefix** field on the **Publish Results > Custom Reports** tab.

If you run a schedule, specify a file prefix, and then click the **Create Reports** button, the generated file's prefix is appended to the file name in the **3DEXPERIENCE > Reports > Custom Reports** folder.

- **Generate .csv files compatible with ENOVIA project planning application**

On the **Publish Results > Gantt Charts** tab, when you click the **Output to Project** button to generate the file in **.csv** format, the file is now generated in the **Scenario > Results > 3DEXPERIENCE > Gantt Charts** folder.

The **.csv** file can be imported and used in the ENOVIA project planning application.

- **Microsoft project (.mpp) file no longer copied to the 3DEXPERIENCE folder**

When you create a schedule and click the **Output to Project** button on the **Publish Results > Gantt Charts** tab, the Microsoft Project (.mpp) file:

- Appears in the **Work** folder of the particular MineSched scenario
- Is set as the default working directory in the **Export folder** field
- Is no longer copied to the **Results > 3DEXPERIENCE** folder of the **Results** folder

General

- **Use the new undo and redo functionality**

You can now use the new **Undo** and **Redo** icons in the title bar of MineSched to revert and restore your previous changes in a MineSched scenario. This functionality is supported for the **Define Geology**, **Setup Schedule**, and **Setup Development** tabs.

Use the list next to the **Undo** and **Redo** icons to switch between changes in a MineSched scenario's history, which lists the descriptions of up to the last 20 MineSched scenario changes. Clicking on a change in the list reverts or restores all changes prior to the selected change.

You can press Ctrl+Z to undo and Ctrl+Y to redo.

Undo and redo functionality is supported for the following operations:

- Changes in the 2D or 3D canvas like adding, deleting, duplicating, and creating sequence.
- Changes in the data grids like adding, deleting, updating, copying, moving up and move down, and using the Tab key when adding a row or navigating to the next column. The changes in data grids are also supported for dynamic (user-selected) columns in the data grids.
- Any changes made in the fields.
- Any changes in a tab or sub-tab when you switch between tabs or sub tabs.
- Actions dependent on any changes in a MineSched scenario.

Note: On clicking the refresh function on the tabs, the actions dependent on any change in a scenario, are cleared from the undo and redo list.

Undo and redo functionality is not supported for the following:

- **Extract from <model>** button on the **Define Geology > Models** tab
- **Reverse** tool on all tabs of MineSched
- user-defined forms
- Adding models, headings, locations, and haul roads
- Deleting models, headings, and haul roads

- **DevExpress upgraded to version 20.1.3**

MineSched now uses the DevExpress version 20.1.3.

- **New error message for invalid roles and features**

On the *Dassault Systèmes Licensing* form, when you enroll a nodelock license with an invalid role or feature, an error message is now displayed.

Issues Fixed

General

- **Eyeshot upgraded to version 2020**

MineSched now uses Eyeshot version 2020.

- **Minex data no longer supported**

MineSched 2021 and later versions will no longer support the use of Minex data.

Publish Results

- **Removal of InSite section on the Standard Reports tab**

On the **Publish Results > Standard Reports** tab, the entire **InSite** section has now been removed.

Define Geology

- **Minex data scenario no longer supported**

When you open a scenario with Minex data, an error message is now displayed.

Miscellaneous

- **Export MineSched scenarios**

You can now export MineSched 2021 scenarios to the following versions:

- MineSched 9.2
- MineSched 2019
- MineSched 2020
- MineSched 2020.1