



# **SUPERVISOR**

Created by geologists, for geologists

## **Release Notes**

Supervisor v8.14.2.1

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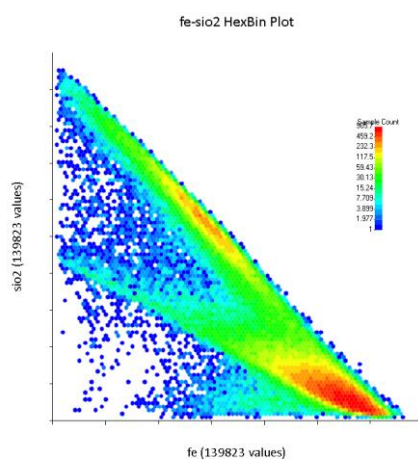
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## WHAT'S NEW FOR SUPERVISOR V8.14.2

Supervisor provides a range of univariate and multivariate data analysis tools that allow users to rapidly understand the characteristics of their orebody. Supervisor's broad suite of components are an invaluable tool for resource estimation professionals and provide simple, intuitive interfaces for common and advanced geostatistical techniques alike. Utilising advanced local and global estimation optimisations allow users from all ends of the resource industry to manage their deposit with the highest level of confidence. The flexibility of Supervisor's import and export features allow users to enjoy the benefits of a comprehensive, easy-to-use geostatistical package regardless of their preference of general mining software.

This is a **minor version** update for Supervisor. It brings a number of component enhancements to Multivariate Simulation, Probability Plots, Global Topcut Analysis and introduces the new Hexbin plot type, which allows for greater clarity when analysing complex correlations between variables for large datasets.

### What's New in Supervisor v8.14.2?

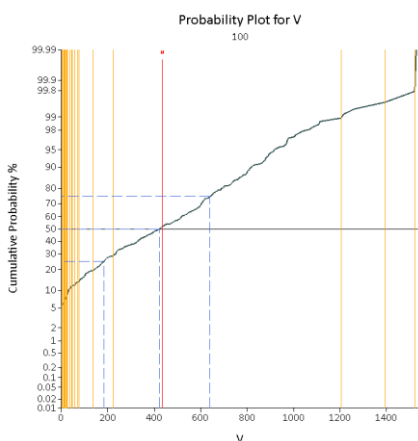


#### New!! Hexbin Plots

Hexbin plots provide many benefits over standard scatterplots, particularly when dealing with large datasets where clustered datapoints can confiscate typical interpretation and analysis processes.

These plots consist of multiple hexes which make up bins in which the number of points is counted and represented by a colour legend. The hex shape is typically preferred for interpretation over standard grid bins as the interpreters eye is not naturally drawn to the horizontal and vertical directions as they are for a grid.

In addition, Hexbin plots can be generated much more rapidly than standard scatterplots since the number of elements that need to be drawn is typically orders of magnitude lower than a typical scatterplot. Therefore, the user can spend more time analysing the data and less time waiting for the results.



#### New!! Feature enhancements

- Multivariate Conditional Simulation has been enhanced with Grade Probability Plots, spatial decorrelation for both GPCA and PPMT, display of the % data within each confidence ellipse, selection of the denominator during log-ratio transformation and a Data Validation tool to assist identifying typical errors with datasets.
- Probability plots now display calculated data breaks based on a user-defined tolerance percent.
- Topcuts can now be applied directly from the Global Topcut Analysis component. The component will also remain unaffected by topcuts and always show the raw data comparison.
- Block model tables can now be exported in Datamine (.dm) binary table format.

## INSTALLING THIS UPDATE

This version of Supervisor can either be installed as a fresh installation or as an upgrade directly over a previous version.

There is no need to uninstall a previous version of Supervisor.

1. Download the latest version of the beta installation executable.
2. Run the installer and proceed through the menus.
3. Once the installer has completed and the window has been closed, run the Supervisor executable to launch the program.

## UTILISING THE MULTIVARIATE CONDITIONAL SIMULATION COMPONENT

The Multivariate simulation component can be added to the Domain node of Point data that has been grouped by Domain/Assay.

The input data requires multiple correlated assays as these relationships will be reproduced in the results of the process. If there is weak or no correlation between the input assays then the process will produce sub-optimal results

When running the process for the first time, it is recommended to use an ALR compositional transformation and utilise the GPCA multivariate normal transformation with the default settings. Please note that for the compositional transformation, the compositional value should be set appropriately for the assay units. (ie. For assays in %, use 100. For Assays in ppm, use 1000000)

The second part of the multivariate process is the same as the conditional simulation process except that the process uses the Factor assays. Once the variography for the Factors has been completed, the multivariate simulation process can be run which will process all the necessary simulations and apply the relevant back transformations.

The results tables and components will then be presented for validation purposes.

More detailed notes on the component features are laid out in the updated help documentation within Supervisor.

## MORE INFORMATION

The following general resources are available to help you use your product:

- **Integrated Help Files:** your product help file is your first stop for assistance and contains a wealth of information, including the latest information about this version.
- **Online video tutorials:** check out our Youtube channel for video tutorials for step-by-step guides to some of our more complex features.

<https://www.youtube.com/channel/UCegit2FWNluR39SVGEXNCIw>

- **Support Portal:** The Datamine Support Portal allows you to get in touch with our global support teams for direct assistance with any software related issues.

<https://datamine.freshdesk.com/en/support/login>

- **Latest version:** The latest 8.14.2 release version can be downloaded using the following links:
  - **Datamine License:** via the [Software Portal](#)
  - **SAMS License:** via <https://my.snowdenonline.com.au/>

## RELEASE NOTES – SUPERVISOR v8.14.2



A new feature



An improvement or a minor feature



A bug fix



The following cases have been resolved since the last released version of Supervisor:

For more information on individual cases, please refer to your online help, or contact your local support representative.







### Hexbin Plot

ID	Type	Description
S8-331		Hexbin plots added






### Studio RM integration

ID	Type	Description
S8-394		Block model tables can now be exported as Datamine binary format (.dm)
S8-407		Imported Datamine tables are no longer truncated to 8 characters


### Multivariate Simulation

ID	Type	Description
S8-347		Grade probability plots added which are based on multiple cutoffs for a primary variable
S8-345		Data Validation tab has been added to the MVS component, allowing users to check for typical errors
S8-340		The % data within each confidence ellipse is now shown in the property panel and stats table
S8-339		Users can now determine which variable will be used as the denominator during compositional transformation
S8-342		Spatial decorrelation can now be utilised for both PPMT and GPCA
S8-380		Results Export now matches the functionality of the Conditional Simulation Component









## Other components

ID	Type	Description
S8-275		Data breaks can now be calculated and displayed on Probability Plots based on a % change tolerance
S8-412		Standalone variograms can now be added to indicators on the Probability Plot
S8-185		The Global Topcut Analysis component now has 'Apply' and 'Clear' buttons to manage the application of the calculated topcut to the parent Assay
S8-385		The KNA boxes shown in the 3D window for the Drillhole Spacing Analysis component can now be toggled off
S8-375		Reblock tables now match input block model files exactly (including sub-blocking)

## User Interface

ID	Type	Description
S8-413		Add Data menu has been reconfigured in the main toolbar to be in line with right-click functionality

## Bug Fixes

ID	Type	Description
S8-462		Fixed an issue where the Predicted Grade Tonnage Curve would report different results when used in the conditional simulation component
S8-336		Fixed an issue where Supervisor would fail to import extremely large models. There is no hard limit on the size that Supervisor will accept.
S8-397		Resolved an issue that prevented Supervisor from accessing the Datamine License Manager if the user had migrated from a SAMS installation
S8-418		Fixed an issue which would cause the KNA results to reorder when clicked
S8-383		Fixed several issues when trying to interact with the Conditional Simulation Probability Plots
S8-382		Fixed an issue where data filters would be ignored during the generation of simulations
S8-414		Fixed an issue where the Predicted Grade Tonnage curve would incorrectly be flagged for update
S8-374		Fixed an issue where the domains in the Conditional Simulation dropdown boxes did not match the order in the project tree



S8-378



Fixed an issue that would cause the 3D viewer to become unresponsive