Surpac

Release Notes

Last Modified: Wednesday, 5 October 2016

Surpac 6.7.4

Enhancements

Configuration

- **Fields containing invalid values are highlighted in red**

    When you enter input values in the fields on any form, the fields that contain invalid values are now highlighted in red.

Geology

- **Performance improvement of the decluster engine**

    The decluster engine has been multi-threaded to improve performance.

- **Ability to generate the volume of solid report in a table format**

    You can use the **Solids > Solids tools > Report volume of solids** function to generate the volume of solid report in a table format.

- **New settings to adjust the movement direction and magnitude when intersecting triangulations**

    If a triangle intersection does not produce a valid result without movement, you can use the new **Customise > Default Preferences > Applications > Triangle intersection adjustment** settings to adjust the movement direction and magnitude of one of the input trisolations.

Tools

- **New functions to rotate, move, or copy all strings around a pivot point on the Graphics window**

    You can use the two new LAYER MOVE ROTATE and LAYER COPY ROTATE functions to rotate, move, or copy all strings around a pivot point on the **Graphics** window. Also, the following functions have been enhanced to add user-editable fields for the point of rotation that is selected on the **Graphics** window: STRING MOVE ROTATE, STRING COPY ROTATE, SEGMENT MOVE ROTATE, and SEGMENT COPY ROTATE.

- **New field to specify a string range on the Boundary generator form**

    You can use the new **String range** field on the *Boundary generator* form to specify a string range for the LAYER BOUNDARY function.

- **Ability to generate individual layer boundaries for strings**

    You can now use the LAYER BOUNDARY function to generate boundaries for every string individually that is specified in the **String range** field on the *Boundary generator* form.

Miscellaneous

- **New function to generate a circumcircle**

    You can use the new **Circumcircle** function to generate a circle by selecting three points in the **Graphics** window.

Issues Fixed

Tools

- **The SclViewPort split command split the viewport incorrectly**

    The **SclViewPort split** command now splits the viewport according to the percentage value specified.

● **The drill and blast databases created were not recorded in macros**

Macros now records the creation of drill and blast databases.

● **An inaccurate line of intersection was generated if there were overlapping triangles in the DTMs**

If there are overlapping triangles in the DTMs, when you use the INTERSECT DTMS function (graphically and file based), an accurate line of intersection is now generated. A **Feedback Progress** bar has also been added.

● **The CAD IMPORT function created incorrect data points at zero coordinates**

The CAD IMPORT function now creates only the data points available in the import file at zero coordinates.

● **On the MODIFY AN EXISTING MAP form, pressing the Esc key caused Surpac to exit unexpectedly**

On the *MODIFY AN EXISTING MAP* form, when you edit a map and then press Esc, Surpac no longer exits unexpectedly.

● **Unwanted lines were displayed instead of markers and labels**

When you use the **Autoplot** function for planes, unwanted lines are no longer displayed instead of markers and labels.

● **Trimming and Clipping functions were delayed when processing large data sets**

The performance of the **Trimming** and **Clipping** functions have been improved to avoid delays when processing large data sets.

● **VRML is not exported when colour by attribute was of character type**

When the **Attribute to colour by** is of a character type, you can now export block model outer shells to VRML.

● **The LAYER BOUNDARY function produced counterclockwise concave boundaries**

The LAYER BOUNDARY function now produces clockwise concave boundaries.

● **The registration file was not saved to the specified directory**

The IMAGE DRAPE function now saves the registration file to the specified directory.

Configuration

● **VRML output was displayed incorrectly in the Cortona3D viewer**

The VRML output is now displayed correctly in the Cortona3D viewer.

● **Files in a subfolder of the working directory were not accessible**

You can now access the files that are in a subfolder of the working directory.

● **Dynamic 2D grids were not refreshed correctly while zooming using the software driver**

When you start Surpac using the software driver, the dynamic 2D grids now refreshes correctly when you zoom in and out.

● **Help not opened in the required browser**

You can now open the Help in the required browser. You can use the **Customise > Default preferences > System Options > External viewers and editors > Web browser** settings to define the required browser.

● **JIDE upgraded to the latest version**

Surpac has been upgraded to JIDE version 3.6.13.

- **Unable to read Micromine .dat files**

  The Micromine plug-in has been updated to read all Micromine **.dat** files. Micromine **.dat** files are typically string and triangulation files, but may also include block models. You can now read and write Micromine block models. The Micromine **.tridb** file, which is the current triangulation format, is now supported.

- **UI components truncated on the Define string groups form**

  When you translate the *Define string groups* form to other languages, the UI components on this form are no longer truncated.

Engineering

- **Holes downloaded from a database had precision errors in the hole angles**

  When you download holes from a database, the hole angles no longer have precision errors.

- **The Customised firing options did not have tick status**

  The **Allow reselection for blast hole** and **Show Parameters for each row** functions of the **Customised firing options** menu now have a tick status when active.

- **The BLAST EXTEND SINGLE function displayed spurious error message**

  The BLAST EXTEND SINGLE function no longer displays a spurious error message.

- **The calculated field values were not displayed as labels**

  The calculated field values in a database are now displayed as labels on the **Graphics** window.

- **An error message appeared when creating single holes with the snap to point mode**

  When you create single blast holes with the snap to point mode, an error message no longer appears.

- **Using the BLAST SINGLE function after the BLAST DELETE ALL function caused Surpac to exit unexpectedly**

  When you use the BLAST SINGLE function after the BLAST DELETE ALL function, Surpac no longer exits unexpectedly.

- **The bearing and dip values were not updated by the BLAST EXTEND SINGLE function**

  The BLAST EXTEND SINGLE function now updates the bearing and dip values.

Geology

- **Whittle models were imported incorrectly**

  When the block size of a Whittle model is the same as the block size of the Surpac model, you can now import the Whittle models correctly.

- **Running the BM REBLOCK function using a macro caused Surpac to exit unexpectedly**

  When you run the BM REBLOCK function using a macro, Surpac no longer exits unexpectedly.

- **The OUTERSECT/INTERSECT/UNION functions generated invalid solids in some scenarios**

  When you use the OUTERSECT/INTERSECT/UNION functions on solids, valid solids are now generated for a greater number of scenarios. A **Feedback Progress** bar has also been added.

- **Block models were not open for constraints with invalid imported attributes**

  You can now open block models that contain constraints with invalid imported attributes.

- **The basic statistical parameters were reported incorrectly**

  The **Trend Analysis** function now reports the basic statistical parameters correctly. When there are insufficient samples, **Not calculated** is shown in the report.

- **In the Interpolator, the estimation process was delayed for large block models**

  When you save, close, and reopen the block model for each run in the **Block model > Interpolator** function, the estimation process is no longer delayed for large block models. To avoid delays in the estimation process, set the **Autosave frequency** on the *Default preferences* form to a required value that is based on the number of estimation runs.

- **The Triangulate Shape tool created invalid .dtm files**

  The Triangulation Shape tool now creates valid **.dtm** files, and only processes points in the same layer.

- **Chart styles were not changed on the Chart Properties dialog**

  On the *Chart Properties* dialog, you can now change the chart styles (for example, colours and markers) for the Probability Plot, Mean Variance Plot, Swath Plot, and Grade Tonnage Plot.

- **Number of drillholes used in the estimation process were incorrectly assigned to optional attribute**

  The number of drillholes used in the estimation process are now correctly assigned to the optional attribute.

- **Using overlapping triangles with the DTM-DTM UPPER/LOWER functions sometimes caused Surpac to stop responding**

  If there are overlapping (or duplicate) triangles between two DTMs, when you run the DTM-DTM UPPER/LOWER functions, Surpac no longer stops responding. A **Feedback Progress** bar has also been added.

- **The block model classification value field allowed only lowercase characters**

  On the *Data source specifications* form, when you configure an Inverse Distance estimation, you can now use both lowercase and uppercase characters in the **Classification value** field.

- **Adding new attributes to a block model sometimes caused memory leaks**

  When you add new attributes to block models, memory management has been improved.

- **The BM REBLOCK function displayed the real attribute types incorrectly**

  The BM REBLOCK function now displays the real attribute types correctly.

- **The Report Volume of Solids function produced incorrect results**

  The **Report Volume of Solids** function now produces correct results when there are duplicate trisolations in the data.

Surveying

- **ODBC connection disabled editing the station table in the survey database**

  The station table in the survey database can now be edited with an ODBC connection.

Miscellaneous

- **Updated Excel import tool**

  The LibXL engine, which is used for read/writing Excel files (*.xls ; *.xlsx) whilst plotting, has been upgraded to version 3.6.5.

- **Upgraded 3D engine to version 21.40**

  The 3D engine has been upgraded to version 21.40.

- **The blast and ring database mapping functions displayed data type mismatch warnings for some fields**

  The **Map the blast database** and **Map the ring design database** functions no longer display data type mismatch warnings for some fields.

- **The main graphics layer was translated in the Layer Manager**

  When you run Surpac in Russian, the **main graphics layer** is no longer translated in the **Layer Manager**. There is no duplication when you set the **main graphics layer** as an active layer.