GEMS

Release Notes

Last Modified: Thursday, May 27, 2021

GEMS 6.8.5

Enhancements

GEMS

- **An SDM solid contains valid properties**

  When you export SDM solid data from GEMS, the SDM file now displays valid values in the **Properties** window in Surpac to indicate if the solid is closed and valid, or open and invalid.

CavingMaintenance

- **Micromine Import**

  GEMS can now read Micromine polyline or triangulated file data.

CBU

- **Accurate import of sub-block Model by PCBC tool**

  Now the PCBC sub-block import tool can import the sub-block model effectively, when the sub-block size is irregular.

Caving

- **Marker Mixing**

  A new function **Marker Mixing** has been added to supplement the existing material mixing models within PCBC. The most common of these are **Template** mixing and **Pre-vertical** mixing.

- **PCBC Produduction Scheduler updated**

  The following changes have been made to the PCBC production scheduler:

  - USE_BUCKETS keyword added to enable bucket data to be ready from Excel instead of a workspace.
  - LOADSHUT keyword added to enable draw point shut-off grades to be varied on a draw point by draw point basis.
  - MMIX method as an alternative to PAST method when using Marker Mixing.
  - Marker Mixing support via MARKER_MIX keyword.
  - Option to display info windows for INPUT and Detail sheet keywords and for available scheduling methods (in Table sheet).
  - SUPPRESS_REPORTS keyword to suppress result reporting up to the period number set by the keyword. Useful to speed up total run times when results for past periods are not required to be updated.
  - LABEL_MAP support added to Tableau report.
  - Clean up of program exit messaging.
  - LOADSEQ option added to Detail sheet so that future sequences can be modified within Restart runs where past sequences are fixed.

- **PCBC Info Windows information updated**

  Updated information in **PCBC** > **System Tools** > **Custom Tools** > **Other Info Windows**.

- **Quick Neighbour Tool updated**

  Following keywords have been added to the Quick neighbour tool:

  - DO_PSTQ to report draw point stack sequence (Primary, secondary, etc).
  - ANISOE to set anisotropy factor between rings and external materials.
  - ANISOB to set anisotropy factor between rings and block rings.

- **Import Rings from Excel updated**

  The performance of importing rings from excel is now faster.

- **Build Slice file tool**

  Following keywords have been added to the Build Slice file tool:

  - SETUP_AP to load a different Setup AP before running. Caving area SETUP is restored in the end.
  - SEG_ACCURACY to remove prompt for SEG accuracy.

- **Generate Rings (GEN)**

  Following changes have been made to Generate Rings:

  - AUTOJOIN keyword. Distance to Autojoin polylines in same sector.
  - TUNNEL_PROFILES to vary ring shapes at the start and end of each tunnel.
  - Changes to draw point display to show normal and error condition rings accurately.

- **TTL improvements**

  Following keywords have been added to TTL:

  - SECTOR_SPREAD to limit face spread by sector.
  - GLOBAL_SPREAD to limit overall face spread for all faces to keep better face shape grouping.
  - STRICT_FACE to ensure that face shape waits for lagging tunnels.
  - SECTOR_AS_TUNNEL to set sector name as tunnel for tunnels in sector.

Issues Fixed

GEMS

- **Drillhole display using HIDE/SHOW and DISPLAY OVERIDES functions were not synced**

  The drillhole display conflict while using **Hide/Show** and **Display Overides** functions has now been resolved.

- **Update from Polygons function could not update several block model folders at once**

  When you now use **Update from Polygons** function for block models (by right-clicking **Block Model** workspace), you can update children folders. One block can have multiple rock codes, for example 101 and 102.

- **The gsi.gpl file is updated with new project GPRPATH**

  When you now open GEMS through GPR file from project directory, it writes the information about open project to the **gsi.gpl** file.

- **Importing the exported GGX file did not import all the triangles**

  When you now re-import the GGX file after exporting from GEMS, all the triangles are imported making the imported triangulations valid.

- **Opening the last record opened all records**

  Opening the last record in the triangulation workspace now opens only the last record instead of all the records.

- **Intersect table was not updated with information about the drillholes in the workspace**

  When you now click **Drillhole** > **Compositing** > **Update Workspace with Drillhole/Solid Intersection, INTERSECT** table gets updated with all the intersects points information.

- **Copy sub-table records for Drillhole and Traverse workspaces**

  For Drillhole and Traverse workspaces, you are now able to copy one or more than one selected records in an sub-table by clicking **Edit** > **Copy Row** in GEMS Workspace Data editor mode.

- **Plotmaker help opened in Internet Explorer browser**

  Plotmaker has been updated to version 3.2.9. and the help content opens in the system default browser.

- **Logging a support ticket issue**

  On clicking **Help** > **Report an issue to GEOVIA**, you are now redirected to the partners portal page.

- **Icons for identifying open workspaces did not appear for all workspaces**

  When you open, close, or hide a workspace, an eye icon is displayed, hidden, or grayed out, respectively, next to the associated project tree view node.

CBU

- **Block summary report function works with negative grade values**

  The function to report a block summary in PCBC by grade range, now also works with negative grade values.

- **PCSLC VOLS tool runs with missing shape bucket workspace**

  VOLS tool now runs faster even when shape bucket workspace does not exist.

- **PCSLC TRIM tool caused GEMS to exit unexpectedly**

  Determining the extraction percentage using the DIST_TO_ORE keyword in the PCSLC TRIM tool no longer causes GEMS to exit unexpectedly.

- **Scheduler for PCBC upgrade**

  Keyword **DPT_SEQ** no longer causes function failure in **Scheduler for PCBC** in GEMS.

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- **Batch Mode automation update**

  This functionality improves the initial Automation mode by which Simulia Isight and / or Process Composer interact with limited PCBC functionality. The Batch mode in 6.8.5 permits multiple functions to be executed without the need to stop and start GEMS each time. The main commands to run PCSLC/PCBC tools from batch mode are MMIX, BUILD_SLICEFILE, SCHEDULER, BHOD, TTL, TM3D, FFSLC, FF, LAYOUT_BC, IMPORT_RINGS, AP_TO_EXCEL, AP_FROM_EXCEL, MERGE_BUCKET, EXCEL_CLOSE, INFO, PAUSE, END, and HANDSHAKE_START.

- **Caving Menu changes**

  Caving menu has following changes:

  - Some menus in lower level positions are risen to be more prominent.
  - Some system / custom menus are renamed to better reflect the menu functionality.

Documentation Changes

Caving

- **PCBC Release Notes update**

  Refer to the PCBC Release Notes document for working notes on updated Caving features.