

You must include the external package 1.7

Genesis 1.6.21 (November 22, 2018) :

New Features:

- The automatic generation of prism is now optimized (Moreira & Santos algorithm)
- Updated Geotic Importation for Geotic 8
- It is now possible to cut a prism in 2 parts with a line
- It is now possible to set the global block grid parameter from a block model or from an envelope
- Added Tag By envelope to the dialog list of mineralized intervals
- When importing CSV, the text field with quotation mark is now handle correctly
- Added Experimental Variogram Graphic in floating pannel

Corrections:

- The added precision was not used when creation a new block model if block model is rotated

Genesis 1.6.20 (November 2, 2018):

New Features:

- The Geostat Graphic are now clickable to get information on the selected data
- It is now possible to generate automatically prism around mineralized interval or composites
- Cutting envelope with the current section is now possible
- New error message when importing block model and block center is not in the center of block grid cell
- It is now possible to modify the property of planned hole in the dialog list of the GeoLine

Corrections:

- Fixed some problem with creation of interval by optimization
- When creating dictionary automatically, the spaces were not handled correctly

Genesis 1.6.19 (October 11, 2018) :

New Features

- Experimental variogram in 3D
- It is now possible to generate intervals by lithology using the caption or the summary

Corrections:

- The meshing was improved to better handle complex case
- The planar envelope was not created after the destruction of intervals set and envelope
- Fixed a bug where sometime the creation of interval by lithogy did not work
- The Boolean envelope could create hole on very big triangle
- The importation of GeoBase with illegal character did not work well

- The selection composite dialog was not showing the good columns

Genesis 1.6.18 (August 24, 2018) :

New Features:

- Principal Component analysis (PCA)
- Real distance of Mahalanobis (based on PCA)
- The optimisation of mineralized intervals is improved ; The dilution and the chopping is now optimal
- It is now possible to have mineralized intervals as a data source in Geostat
- Simplified the reblocking dialog
- When creating planned hole, it is now possible to use Ctrl+MouseWheel to modify the length of the hole when in move mode
- Mineralized intervals Reengineering

Corrections:

- The intervals optimization could generate too long intervals
- The creation of automatic dictionary on a custom table did not work
- It was not possible to snap an object on a custom table

Genesis 1.6.17 (July 12, 2018) :

New Features:

- It is now possible to have multiple viewport
- Added a report on median thickness of envelope
- It is now possible to set variable value in the block model on many variable at the same time
- In the resource report it is now possible to sort the cut off
- The move fast mode can now also copy the object with the Ctrl key
- It is now possible to import/export color table

Corrections:

- The sort in the dialog list did not work when there was empty field in the list
- The pit optimization on rotated bm generated error on the result surface
- The importation of GeoBase with special character in the variable did not work
- Many bug fix in the resource report

Genesis 1.6.16 (June 14, 2018) :

New Features:

- Added all needed data in the profit blocks to verify the pit optimisation
- It is now possible to define GeoLines for the planar envelope
- The Importation of DXF File now handle line type AcDb3DPolyline
- The composites selection in the estimation parameter is now done in the dialog instead of a combo box
- Added new charts in the resource report in excel with many cut off
- It is now possible to generate the block grid from an envelope
- Added a button in the ribbon to show/hide custom table and set visible/invisible tables
- Added a capping by distance in the estimation
- The function Tag By envelope in the block model can now tag the variable FixedDensity
- Added a button properties when clicking on an ellipsoid
- The text of the distance tool is now bigger, and if it goes out of screen it adjusts.

Corrections:

- The pit optimisation did not work correctly with patterns bigger than two.
- The planar envelope was self intersecting when the minimal distance was too big
- View or Export Hole was crashing
- The litho was not redrawn when we settings some hole to visible/invisible
- The folder structure in the docking panel was not always up to date
- The classification log was only logging the first pass
- The block model creation with planar envelope with a cross other than YZ was not working
- Importation of flat file, if the level of the lithology does not exist, the default is now 0 instead of -999

Genesis 1.6.15 (May 9, 2018) :

Corrections:

- The classification centered on composites worked only with the first pass.
- Calculated variable with numbers in their name did not work
- The resource report did not work when there was no cut off or all cut off were inactive
- The panel creation in block model was crashing

Genesis 1.6.14 (may 1st,2018) :

New Features:

- Added the prism perimeter in the prism report

- It is now possible to export hole data in an excel with multiple sheets
- Added a cumulative frequency graphic in the block model comparison tool
- Removal of too small triangle in planar envelope

Corrections:

- The cookie cutter was not showing the cutting polygon correctly
- The importation of estimation parameter could not import more than ID^9
- Improved speed for Boolean envelope subtraction
- Geostat was not always exporting graphic to excel correctly

Genesis 1.6.12 (April 24, 2018) :

New Features:

- Ressource report for planar envelope
- Lithology dialog improved and added Unmerge and Visible/Invisible

Corrections:

- The composite table was not created when creating a new document
- Bm Cumulative Frequency from Genesis did not work

Genesis 1.6.11 (April 12, 2018) :

New Features:

- Machine learning by decision tree with a metric choice to optimize
- Machine learning domain adaptation
- The context menu now only contains selection choice and does not change between show and selection menu
- New graphic on lithology
- Added cumulative frequency graphic on block model
- It is now possible to reblock the profit for pit optimization
- The bookmarks now remember the last parameter used, and it is now possible to create multiple bookmark in a row
- It is now possible to remove an image from a surface

Corrections:

- The planar envelope was crashing when the related intervals were deleted
- The planar envelope was not refreshing when changing the legend
- The image transparency on a section was not saved
- The calculation method on prism was not saved
- The classification centered on composite was not working anymore
- It was possible to lose a composites set
- The view could be modified when modifying a prism
- The key delete in the dictionary dialog was always deleting the selected litho

Genesis 1.6.10 (February 23, 2018) :

Warning:

- It is now impossible to load composites made with the old software sectcad (The view on collars is now handled by the collars list.)

New Features:

- New planar envelope with triangular resource estimation.
- New function to import and export one or many block model in a proprietary format (Genesis Block Model XML .gbmx)
- It is now possible to do a resource report without sorting by block model (the calculation will be made for all selected bm)
- In the resource report it is now possible to write a formula in the cut Off. The formula must return true or false.
- Added 1st and 3rd quartiles in the Geostat statistic report
- It is now possible to import and export classification parameters
- When clicking a planned hole, the information (x,y,z,azimuth,dip,length) are now displayed
- It is now possible to change the length dynamically of a planned hole
- New intelligent sorting in dialog list (numerical and alphanumeric portion are independently sorted)
- The classification by composites can now use composite that are not inside the block model

Corrections:

- The block model validation in Genesis did not use the selected envelope
- The resource report did not remember the density variable used
- Going in Spin mode in a mode when there was already a spin mode could change the current view

Genesis 1.6.9 (February 5, 2018) :

New Features:

- Creation of thin planar envelope
- Can now add bookmark marker with a description. It is possible to navigate from one marker to another with F2 and F3
- It is now possible to compare and validate block model directly in Genesis
- It is now possible to simplify a surface x,y,z file before importing it
- It is now possible to sort by any variable in the resource report
- In the resource report, the line Total is now optional
- In the resource report, a new type of report (one table) is available
- The context menu of the dialog list is now specific for each object type
- It is now possible to modify the tag and the comments of many envelope at the same time
- It is now possible to extract a block model with many envelope

Corrections:

- The Machine learning (boosting) was crashing when there were absolutely no correlation
- Renaming a section did not work properly
- In the interval menu, Tag by not in envelope did not work with multiple envelope
- The creation of intervals by hole did not work correctly for wedged hole
- In the custom table, the function extract by envelope was crashing
- In the resource report, the cut off did not work on a calculated variable that is on another calculated variable

Genesis 1.6.8 (January 11, 2018) :

New Features:

- Creation of thin envelope by Voronoï
- Added optional columns in the collars (Contractor, Logged By, Description, etc). All the GeoBase Collars columns are now imported in the Genesis collars
- Added sample number in the assays (When importing and when selecting assays)
- It is now possible to export the comments of planned hole
- It is now possible to change the color of a planned hole
- The create Face on a surface now handle envelope that contains many disjoint surface
- New button in the ribbon to show/hide real size cursor
- The sections with an image are now in color in the section dialog; it is now possible to show or not the image and to modify its transparency with the context menu
- When importing hole data, if the collar has no deviation, the deviation at depth 0 will be used (if it exists)

Corrections:

- When meshing, the densified point where not always displayed
- The sort by color in the docking panel did not work (crashed)
- The cookie cutter on a surface was generating a volume instead of a surface
- The wind roses (xyz) was flicking when changing section

Genesis 1.6.7 (December 15, 2017) :

New Features:

- In the resources report, the line order is modified: now is measured, indicated, mes+ind, inferred, total.
- In the resource report, it is now possible to enable or disable a cut off
- In the resource report, it is now possible to set a formula for the percent or the density
- It is now possible to add or do the union of many intervals set
- New function to view intervals and composites in excel
- The Select All Mode can now also select custom tables
- The Hole List dialog is now also in a docking panel
- The schema of block model has been improved:
 - Added a description for each variable
 - Added a checkbox to set a variable to be estimable or not
 - Added a checkbox to show or hide a variable
 - Can now export the schema

Corrections:

- When opening a gnft with a double click on the file, it could crash on specific circumstance
- The wedges imported from Geotic was not well positioned
- Exporting many intervals set at the same time did not work properly
- In the hole dialog list, it was possible to modify the hole visibility only with the context menu
- The progress bar could crash Genesis if the message displayed was longer than 100 characters
- The resource report in excel was creating a corrupted excel file if there was a "<" character in the filter variable

Genesis 1.6.6 (November 28, 2017) :

New Features:

- The automatic Cell envelope now generate equilateral triangle.
- The creation and the modification of the virtual intervals for the cell envelope is improved
- When printing section Wysiwyg the section dialog was replaced with the new section dialog
- It is possible to undo the operation set Same View To

Corrections:

- The surface generated from the pit optimization was not correct if block model was rotated

- Adding or removing tie mesh in mode Select All was not working
- Cursor could disappear when using real size cursor and editing a prism, geoline or figure.
- When creating planned hole, the hole could get inverted.
- When displaying only one axis of the grid, the coordinate was still displayed
- When printing wysiwyg the invisible section was always printed
- Using a trace size factor greater than one was sometime hiding hole information (for example assays could hide the lithology)

Genesis 1.6.5 (November 20, 2017) :

New Features:

- It is now possible to export swatplots in Geostat to Excel
- It is now possible to generate optimal section with composites or intervals

Corrections:

- Geostat Graphic did not show correctly
- The optimal section corridor could be incorrect

Genesis 1.6.4 (November 16, 2017) :

New Features:

- It is now possible to export Geostat graphic to Excel
- It is now possible to create optimal section on envelopes
- It is now possible to import / export dictionary in .csv or Excel
- Added the option Property when selecting hole in normal mode or fast mode
- When importing a shapefile on a surface or on a section it is now possible to define a color and a resolution
- When importing/Exporting estimation parameter, the elliptic distance is now exported
- In Dialog list, the context menu now contains a new option: Switch Visibility
- The Tag by envelope or set variable value from block model now tell how many blocks were modified.

Corrections:

- When spinning in a section, the distance was not displayed well
- Added an error message when trying to map an image more than 1 GO.
- Image mapping should now work even if Genesis is not in administrator mode
- The Open Fast was still drawing surfaces
- When importing a database, it was possible to import duplicate Hole
- When importing database, some temporary table were sometime not deleted
- The object sorting in dialog list was not working on more than 100 characters
- Opening a file older than when Custom Tables exists (couple of years ago) crashed

Genesis 1.6.3 (November 3, 2017) :

Corrections:

- The grid was not displayed correctly (Since version 1.5.23)
- Irregular block kriging did not work properly (was using only one composite)
- Prism skeleton was displayed when editing

Genesis 1.6.2 (November 1st, 2017) :

New Features:

- It is now possible to paste text in the search object dialog

Corrections:

- The meshing algorithm was adding wall to all prism
- When adding tie-line the meshing algorithm was not working anymore
- The maximum angle for the meshing algorithm is now expressed in deg/m
- The spline function is removed
- In the resource report, the header for the different multifolder view was always the same
- The transparency was not always working well on a surface with an image projected
- When editing a prism, there was sometime a missing point and when pressing shift one of the line did not show the distance

Genesis 1.6.1 (October 26, 2017) :

New Features:

- The meshing algorithm was completely redone. It is now more stable and much simpler to debug and modify.
- It is now possible to create layers
- New Dialog list to manage Collars data
- There is now only one log panel (interval log dialog was merge into log dialog)
- The display dialog is now simpler, lot of the button was moved in the ribbon
- New prism visualisation mode: Shadow prism. This display the prism on the previous and the next section.
- New Display mode for block model: Shaded & Wire
- The real size cursor is now a circle and can be activated / deactivated anytime
- It is now possible to move multiple points at the same time when modifying a prism
- Added a new tool to compare block model in Geostat
- In Geostat added the weighted average on length on hole object that have a From-To
- Added a function to copy a custom table
- Added a function to copy composite or mineralized interval
- When importing a table in custom table, the schema can now be created automatically from the file header

Corrections:

- The X,Y,Z in the section dialog list was sometime displayed in scientific notation
- In the dictionary, the modification on an element was always modifying the first one
- When creating a prism in fast mode there was often a vertex that was not snapped
- Some minor correction in the dialog for importing flat file
- The snap distance did not keep the good information for the meshing
- The displayed of corridor in the ribbon was not always up to date
- The function Copy Zoom did not work when clicking on a section
- In the block model multifolder, the variable name of the views contained the path of the envelope, wich made variable name too long for nothing
- Fixed a bug in interval optimization

Genesis 1.5.25 (August 29, 2017) :

New features:

- New more user friendly interface for importing CSV
- Added QQPlot Graphic in Geostat
- Added distance classification Mahalanobis as machine learning algorithm
- In Geostat it is now possible to export all graphic form a current tab in picture in a folder
- Genesis should now work without the need to have administrator right
- Added an option to display a cursor real size
- Added the possibility to have a capping by pass in the block model estimation

Corrections:

- The classification with variable ellipsoid did not work
- The force to minimal length from interval optimization could dilute too much.

Genesis 1.5.24 (July 19, 2017) :

New Features:

- The Hole length is now adjusted when importing hole data that exceeds hole length
- We can now delete an image on a section
- It is now possible to import GIS Shape File in image on a surface or on a section
- When importing an image on a section, it image placement is now much smoother
- It is now possible to enlarge a surface

Corrections:

- The importation of hole could crash when there was calculated variable in the schema
- In Geostat, Block Model validation could crash when composite where in sub folder
- When changing section, if grid was displayed it was not refreshing automatically

- Block model rotation were not saved
- Sometime lithology was hidden by assays

Genesis 1.5.23 (July 7, 2017) :

New Features:

- Added borders and creation/edition of virtual intervals in cell envelope
- The section modification dialog was remade
- In Geostat the graphic window are now the size of the screen instead of a smaller size
- In Geostat the cumulative frequency graphic can show a sample of random points if there are too many points to show
- In Geostat Added Contact Analysis Graphics generation
- When importing Hole Data, there is now a validation report
- Automatic creation of lithology dictionary
- When creation a block model it is now possible to add the envelope tag
- New function for reducing the number of points in a surface

Corrections:

- The Save As was crashing
- The envelope validation with MeshLab did not work
- When creating a prism, figure or geoline the application was always proposing an already existing name

Genesis 1.5.22 (may 11, 2017) :

New Features:

- Added Machine Learning (stumps boosting) and phylogenetic
- It is now possible to tag intervals and composites by lithology
- Added new parameter in pit optimisation: Mining Recovery, Process Recovery and mining dilution.
- Added a new cutting mode of envelope (Cookie Cutter)
- Added Several new options in the exportation/Importation of block model parameter (Envelope, discretization, ID2, ID3)
- The Mineralized intervals validation has been improved (better error report and creation of an error intervals set)
- Better variable association when importing GeoBase
- Better handling of centroid and zoom in Oculus virtual reality
- Removed the shortcut "S" in the selection menu because this could create some confusion with the spin shortcut
- It is now possible to validate and repair envelope with MeshLab and display error

Corrections:

- The importation of a database with Append Only with a variable name that is a sql keyword could cause problem
- The planned Hole where not in 3D when displaying Hole in 3D

- Added an error Message when trying to estimate with an ellipse that is no more existing
- The resource report with calculated variable was not working
- The Select All was not working well with Tie Point / Tie Mesh

Genesis 1.5.21 (Marsh 27, 2017) :

Corrections:

- The Operation "Extract intervals exact" could generate an empty set if the object already existed.
- The estimation of blocks with variable ellipsoid was not multithreaded
- The classification with the method centered on composites was not multithreaded
- A calculated value in a dialog box starting with a "-" was generating an endless wait time

Nouveautés:

- Added the predefined variable "interval_length" for access to interval length in calculation
- Better Graphical interface for mapping an image on a surface (the cursor is now a big cross)
- The block model log now open with notepad for better conviviality
- Genesis is now linked to the linear algebra libraries LAPACK/BLAS.

Genesis 1.5.20 (Marsh 23, 2017) :

Corrections:

- A calculated variable starting with "-" became an infinite loop
- If there was a single quote (') in the dictionary, then it could not be saved

Genesis 1.5.19 (Marsh 20, 2017) :

New Features:

- Added the Oculus Touch to the virtual reality
- Added the field x,y,z,ix,iy,iz for the creation of views of block model
- Added the field x,y,z,ix,iy,iz for the operation Set Variable Value in SQL in the block model
- Added an option to have more precision at the cost of time in the operation Extract From Envelope Exact in the minerealized intervals

Corrections:

- The block model reblocking was using the global grid instead of the selected block model grid

- The calculated values was giving wrong result if there was many subtraction in a row (ex : a-b-c-d)
- The operation Set Same View To in the sections was sometime not working properly

Genesis 1.5.18 (Marsh 8, 2017) :

Corrections:

- The optimization algorithm for creating intervals was always optimising the first variable
- The optimization algorithm for creating intervals was not handling missing values
- The optimization algorithm for creating intervals was not considering the value that was exactly the same as the cutoff

Genesis 1.5.17 (Marsh 7, 2017) :

New Features:

- The exportation and importation of block model parameters is now available
- The algorithm for optimizing mineralized intervals was completely redone and is now faster and more robust
- It is now possible to generate convex-hull and concave-hulls from composites

Corrections:

- The creation of block model could not work if we did not have selected the Grid tab
- It was not possible to classify multiple views at the same time
- Many menu of the block model and envelopes was inaccessible
- When opening a document, the current section was not always selected in the section list
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Genesis 1.5.16 (December 21, 2016) :

New Features:

- New option for having software key on local web server
- The operation Generate union on many envelopes is now multithreaded and so much faster
- Added the importation of GeoTIFF and other geo-referenced format on surface or on a section
- Added the table type points X,Y,Z in the custom tables
- Added Anti-Aliasing in Geostat for better rendering
- The image for the surface Mapping is now saved in the document (gnft).
- Added a point for displaying the mean in the box plot of Geostat

Corrections:

- It was not possible to open or save an envelope with the STL format (binary STL)
- The tagging of blocks by envelope was not working when using the option block percent
- We could not import more than 100 variables in the composites
- An envelope of more than 1 millions triangles could not be completely exported in DXF

Genesis 1.5.15 (November 22, 2016) :

New Features:

- New fast method for estimating distance or nearest neighbor
- All estimations are now in multithread (much faster estimations)
- New function to extract a blocks model from a pit (also handle surface with many pit)
- Added an option of priority when tagging a blocks model by envelope
- When copying a variable value from one block model to another, it is now possible to choose the variable name (before the variable name had to be the same in both block model)

Genesis 1.5.14 (November 15, 2016) :

New Features:

- Nouveau module d'optimisation d'intervalles minéralisés par "cutoff" entièrement multithreads.
- New Interval optimization by cut off, multithread and very efficient
- The kriging is now fully multithread
- The plangeneration (wysiwyg) now take into account the prism, figure, geoline visibility
- We can now display hole collars from a dictionary color table
- It is now possible to set a transparency on a section image
- Added the function Set Current Set in the composites dialog
- It is now possible to create a section from a prism figure or geoline
- New button in the section docking panel for applying the same corridor to all section in the current folder
- It is now possible to set a section invisible when clicking on it
- In the section docking panel, all keyboard shortcut are now working normally (instead of jumping to the section starting with the letter pressed)
- The up and down arrow key now change the section even if the section docking panel list does not have the focus

Corrections:

- In the ressource report, the cut off was not displayed if there was only one
- We could not set an envelope to white color
- When modifying a planned hole the name was not displayed correctly
- The extract intervals from envelope exact did not work if an start or end of the hole was exactly on the edge of the envelope
- When creating a tie mesh in spin mode, the escape key was existing the edition mode instead of exiting the spin mode

Genesis 1.5.12 (October 12, 2016) :

Nouveautés:

- It is now possible to subtract composites from envelope and tag them.

- When in spin mode, the Enter key now keep the centroid and the current corridor as opposed of the escape key.
- It is now possible to do intersection on many blocks model at the same time.
- It is now possible to do many create faces envelopes operation at the same time.
- It is now possible to do a “explode” surface.
- The generation of automatic sections group (BMX, BMY, BMZ) is now an option and can be disabled

Corrections:

- The mineralized intervals selection in “fast mode” only worked when they where displayed as lines (not in 3d tube or sphere)
- Improved legend and color for blocks model validation graphic in Geostat
- The Composites folder was not already saved correctly
- The planned hole dialog was rounding the numbers
- When importing hole, the option Append or overwrite was not working if the document was not saved before.
- When importing hole, the append and overwrite was not working if both option was choosen.
- The filter hole by prism property was not saved
- The composites exportation was crashing when having more than 100 variables
- The coordinates displayed in the bottom task bar was sometime not up to date

Genesis 1.5.11 (August 25, 2016) :

Nouveautés:

- The shortcut to show/hide objects (Shift+Letter) now work even if the focus is on the section panel
- The capping of composites can now be done on multiple set at the same time.
- Added a validation report on hole and deviations
- It is now possible to put an image on a section

Corrections:

- Sorting of envelopes by color did not work
- Sorting of blocks model by the numbers of blocks did not work
- We could not change the display of envelope when doing a right click on a folder
- When copying prism, the name was getting longer and longer (x_1, x_1_1, x_1_1_1, ...)
- It was possible that a far object could not be selected
- A Zero corridor could cause some display problem
- Changing the name of a composites set could crash the application

Genesis 1.5.10 (August 11, 2016) :

Nouveautés:

- It is now possible to remove the hole whitout assays limitation when creation cells envelope

Corrections:

- The saving is faster when there is a lot of element to save.
- The renaming of an intervals set could erase all the intervals in that set
- In the dialog list, when clicking on the scroll bar, the resize mode of the dialog was starting automatically
- The “link all tags” was sometime not in the good order.

Genesis 1.5.9 (August 9, 2016) :**Corrections:**

- La densification des prismes d'une enveloppe mailée pouvait entrainer l'impossibilité de sélectionner les points des prismes par la suite.
- The prism densification of a meshed envelope could make the prism vertices not selectable
- The section saving was slow

Genesis 1.5.8 (July 22, 2016) :**Nouveautés:**

- Creation of envelopes with cut off from blocks model
- Added a new dialog for managing the sections
- It is now possible to choose the collars color for planned hole

Corrections:

- In the docking pannel, the blocks model was not redraw after estimation
- The creation of blocks model using bool envelope was very slow

Genesis 1.5.7 (June 28, 2016) :**Nouveautés:**

- Added precision and direction option to the "Generate percent from envelope"
- Tag By Envelope in the blocks model is faster
- Added a display option for Anti-Aliasing; better 3d rendering at the cost of performance
- It is now possible to do a set variable value on many blocks model at the same time
- It is now possible to create one or many faces envelope from prism

Corrections:

- The ribbon combo box of the composite could not get updated as it should.
- The creation of blocks model with legacy bool envelope was very slow
- Moving and copying a prism was not working as intended
- It was not possible to export more than 255 fields at the same time
- Many minor correction in Geostat and block model validation
- The TAB key to change the corridor in the ribbon was not working anymore

Genesis 1.5.6 (May 30, 2016) :

Corrections:

- The option New Document was crashing
- Moving a planned hole with the move function was not working as intended
- The automatic legend creation was not creating the good intervals when there was missing values
- The creation of blocks model without percent could include blocks that touch the envelope but the centre of the block was outside the envelope

Genesis 1.5.5 (May 20, 2016) :

Nouveautés:

- The common properties are now displayed when looking at the properties of object in fast mode.
- It is now possible to display the hole name of planned holes
- It is now possible to import planned hole without a surface (a new surface will be automatically generated in that case)

Corrections:

- The surface triangulation was not working in Windows 10 and could crash
- Sometime the composites count displayed in the dialog list was wrong
- On some operation in the dialog list of blocks model, the new blocks model could be generated in the wrong folder
- The cursor was not always coming back to normal after a Fast Mode
- The operation on mineralized intervals was not working anymore

Genesis 1.5.4 (May 12, 2016) :

Nouveautés:

- The Default script is improved and contain a complete exemple for the new API
- A GNFT can now be opened directly with Geostat (context menu and open With)
- It is now possible to use the new Oculus Rift runtime and headset
- Extract Intervals Exact can now be done on many envelope at the same time and be tagged by the tag of the envelope

Corrections:

- When creating a new blocks model, if not modifying the transformation it was not applied
- In Geostat the color of the graphic elements was not always applied correctly
- In Geostat we can now set the legend everywhere
- It was possible to create composites and intervals names with illegal character that could lead to future problem

Genesis 1.5.3 (4 mai 2016) :

Nouveautés:

- **Installation program now with Inno Setup**
- The default script is now a SQL Console

- Create intervals Exact can now be done on many envelopes at the same time and set the tag of the envelope
- Extract interval from tag can now be done on any tags
- Composites Tag By Envelope not put the tag of the envelope in the field tag instead of the name

Corrections:

- The automatic creation of views could not work properly
- The save as could crash
- The rename of some element in the dialog list could sometime not work properly
- Test One Block was crashing on block model Pannel
- We could not delete a variable of a blocks model in the export dialog
- The script console was not working
- A DOS Window could appear and disappear
- Logarithmic histogram with negative values could lose their data

Genesis 1.5.2 (April 29, 2016) :

Nouveautés:

- **Compilation with Visual Studio 2015**

Corrections:

- Dialog list could be slow when there was a lot of element (name not indexed)
- The color of cumulated frequency graphic was random

Genesis 1.5.1 (April 19, 2016) :

Nouveautés:

- **Blocks Model Pannel Kriging**
- SQL API for scripting
- New SQL Function (match, percentile)
- Automatic creation of formula for Boolean envelope
- Automatic generation of schema when importing holes data from a csv file
- Pit optimization on an existing profit variable
- It is now possible to change all variable at the same time from a color table

Corrections:

- Sometime interline was inserted in a script when edited in another editor
- The opening of a non-existing file does not crash anymore

Genesis 1.5 (2 mars 2016) :

Warning :

- The 1.5 version has lost its forward compatibility. It will not be possible to open a version 1.5 gnft file with a lower version if there are cells envelope in the gnft

New Features:

- **New cellular Envelopes**
- **New Docking Pannel for object list dialog**
- **New Dialog List for mineralized intervals**
- The predefined variable pass number can be added for each variable in the block model
- The display of blocks model is 3 times faster
- New display option for classification in blocks model report
- It is now possible to import/export ellipsoid to .csv
- Added a field "tag" to the envelopes
- Can copy selected parameter from a blocks model to another
- Can append and/or replace blocks from a blocks model to another blocks model
- It is now possible to export many composites set at the same time
- In the blocks model, the field "type" is better managed: we can see it alphanumeric value instead of just the numeric value
- When clicking on an envelope, the centroid is position is now on the selected triangle and the volume is no more automatically calculated

Corrections:

- The first element of the fast mode was not selected for real
- The "Snap Mid Distance" was not working properly
- The exportation of .benv envelope was not exporting the information of the draped images on surfaces
- The GeoLine was sometime flicking or becoming invisible in Oculus
- Fixed a problem when creating a blocks model with many percent when there was already a percent field existing.

Genesis 1.4.32 (December 9, 2015) :

New Features :

- The boolean operation on envelope is a 1000 times faster
- Added the possibility to subtract blocks from a block model (without creating a new blocks model with the result)

Corrections:

- The standard error of kriging could (again) be incorrect if discretisation was not 10 x 10 x 10
- The selection of vertex of a prism could sometime not work when editing the prism.
- When creating a new block model, the checkbox transform was not there anymore
- When creating planified hole, if display was in the mode "Line Center Snapped", the collar and the trace was not aligned
- It was possible that the selected variogram could change in the estimation parameter after kriging a blocks model
- Oculus was not displaying correctly prisms and lines
- Oculus can now show a sky texture
- The extraction of mineralized intervals by envelope was sometime working incorrectly

Genesis 1.4.31 (November 25, 2015) :

New Features :

- Last version of Angel script
- Script editor is improved
- New API version of the script for dynamic array and dictionary

Corrections:

- The Importation of prisms and figures containing '/' was not creating the necessary folder
- The cut off in reports could not save correctly (problem with '.')
- The creation of rotated blocks model with a piercing other than YZ was crashing
- In Geostat, the refresh of validation graphic was not working

Genesis 1.4.30 (November 6, 2015) :

New Features :

- The name of the prisms for the Voronoï diagram are more significative (name = hole name, tag = zone, comment = from-to).

Corrections:

- Possible infinite wait when creating a mesh
- The mesh points using snapped distance are not placed correctly in space
- The intervals subtraction was generating incorrect name in simple case

Genesis 1.4.29 (November 4, 2015) :

New Features :

- Many new statistic graphic option (color, axis)

Corrections:

- The voronois extent was not big enough

Genesis 1.4.28 (october 21, 2015) :

Corrections:

- In Oculus, in image mapping on a surface was not showing up
- The surface image mapping was losing point information when changing the image.
- The Test One Block was not filtering the composites with the global box
- The Test One Block was rewriting the result every pass
- The WOMSK was not working with multiple pass; same problem of the Test One Block
- The global variance was not calculated with all composites before filtering with the global box

Genesis 1.4.27 (October 8, 2015) :

New Features :

- Added Virtual Reality Visualisation with Oculus Rift
- It is possible to copy/paste and print report in Geostat
- We can now import a GEMS Blocks Model, rotated or not
- It is now possible to modify the rotation reference point of a blocks model
- It is possible to add Blocks Model variable to color table without adding them to the global schema
- New Blocks model operation: Rarefy

Corrections:

- Fixed a problem of discretization other than 10,10,10
- Fixed a problem with the operation Create Face on concave surface (result was always convex)
- Fixed a problem with Boolean operation when a triangle A passes between two triangles of B
- The creation of Planned hole could crash when in Select All Selection Mode
- The surface Image mapping was using absolute file name instead of relative
- A few minor bug fix in blocks model validation in Geostat
- Fixed a problem when using diagonals in ellipsoid research
- Problème lors de l'utilisation des diagonales de l'ellipse de recherche

Genesis 1.4.26 (August 28, 2015) :

New Features :

- New Validation graphic of blocks model in Geostat and new BoxPlot Graphic
- Added KNA Variables in Blocks Model
- The calculated variable can now contains other calculated variable

- Report can now be created with .xlsx format (Excel 2003 and more)
- Added the function “Tag By Envelope” in the composites
- We can now define a default GIS table
- We can now define many cut off in the resource report
- Added a button “Test One Block” in the tooltip of a block
- Added a variable “Profit” in the pit optimization

Corrections:

- Problème de pente dans l'optimisation (pentes complexes seulement).
- Fixed a slope problem in the pit optimization (complex slope only)
- The composites could not be saved when being imported
- The “Set Variable Value” was not using the variable ix,iy,iz,x,y,z
- The saving of composites was taking too much memory

Genesis 1.4.25 (June 10, 2015) :

New Features :

- New operation to add for each composites the value of the blocks it is inside
- New composites extract operation by extent

Corrections:

- The composites could disappear in particular case
- The merge of composites set did not work
- The pit optimization was not working with negative blocks size in Z

Genesis 1.4.24 (May 8, 2015) :

New Features :

- New operation to create automatically color table
- Remeshing by isoSurface

Corrections:

- La modification d'un variogramme global n'affectait pas automatiquement ceux des modèles de blocs.
- The modification of a global variogram did not affect automatically those of the blocks model
- Fix a problem where there could be composites set or envelope to disappear.

Genesis 1.4.20 (April 14, 2015) :

New Features :

- Added a dialog for composites and the saving and loading on demand (Composites are no more loaded and drawn if not needed)
- Added the variogram used in the log of operation when kriging a blocks model

- Added an option of loading (Open Fast) with all object hidden for a faster loading of a document

Corrections:

- Lors de la création de composites par des longueurs calculées, l'algorithme pouvait choisir de mauvais composites.
- When creating composites with calculated length, the algorithm could choose wrong intervals size
- Many correction and amelioration of blocks model multifolder
- The classification without an Ellipsoid caused the software to crash
- The operation to substract mineralized intervals was not working

Genesis 1.4.19 (marsh 24, 2015) :

New Features :

- Added Statistic Report in Geostat
- Multifolder Blocks Model
- New intersection operation in blocks model
- New display mode in blocks model wich allow to reduce the size of the blocks displayed

Corrections :

- When importing a flat files, if there was an empty field, all following field where considered empty
- The classification centered on composites could sometime not work properly
- The Holes in 3D where sometimes not drawn correctly
- The importation of polyline in dxf was not working if they were of type continuous
- The operation "Extract intervals exact" could sometime not work properly
- The centroid cube could flick when panning

Genesis 1.4.18 (February 18, 2015) :

Corrections :

- The Global schema could crash when renaming a variable
- The kriging could not start properly
- The sensibility on the volume evaluation was too big (consider wrong too fast)
- The bool envelope could crash on a particular case of degenerated triangle
- The volume evaluation was too slow

New Features :

- The volume precision in relative value
- New explosion operation on envelopes

Genesis 1.4.17 (January 28, 2015) :

Corrections :

- The creation of rotated blocks model with a bool envelope was crashing

- The simulation was not working (have to install external package v 1.3.3 wich includes Python)
- The estimation with octant could estimate a block even if the octant criteria was not met
- The checkbox GSLib was not working in the kriging dialog (always checked)
- The selection of a topography was not working anymore in the pit optimization
- The variography was not working if the composite schema was different than the global schema

Genesis 1.4.16 (January 21, 2015) :

New Features :

- Added the simulation with SGems
- The display speed of the mineralized intervals was greatly improved
- Added progress bar for the bool operations

Corrections :

- Create intervals by cut off was crashing if the capping was lower than the CutOff
- Removed some error that could appear in a loop in the create Intervals by cut off
- Create intervals by cut off was not working well if using hole filter
- The saving of the enveloppes could be very slow when having multiple big envelopes
- The seams was crashing when trying to display them
- The importation of files could crash if the file name had more than 64 character

Genesis 1.4.15 (November 25, 2014) :

New Features :

- A new button "reset layout" to set the docking pane to their initial default position
- A new option to show or hide the yellow rectangle for the sections
- A new spin cube without texture. Note that it is still possible to put the old cube in Options->Display
- It is now possible to change the color of the lines and arrows of the wind roses
- It is now possible to define an origin for the project even if there is no hole in the project. (In "Data->Data Constraint->Model Extent")
- It is now possible to create planified hole on the current section (not only on plan view)
- It is now possible to import/export the tag(zone) of the planified hole
- Added the exportation in dxf of exact bool envelope

Corrections :

- Lors de la création d'une enveloppe à partir d'intervalles minéralisés, l'enveloppe ne s'affichait pas toujours (problème de rafraichissement).

- When creating envelope from mineralized intervals, the envelope was not always displayed correctly (refresh problem)
- The color table was not always being updated after a modification
- Correction of some small problems in the GIS Custom tables (table creation, legend modification, display)

Genesis 1.4.14 (November 11, 2014) :

New Features :

- New exact boolean envelope
- Added the functionality Reblock in pit optimization
- Added an option to display the collars in 3D
- Added the display options in the context menu of the blocks model and envelope
- Can now display the Snapped Geoline in 3D, like the prisms and figures

Corrections :

- The generation of wysiwyg was not using the parameter to display the prism/figures in color
- "Generate Face" on mineralized intervals could crash

Genesis 1.4.12 (October 22, 2014) :

New Features :

- Conditional Simulation (GSLib).
- The duplication of variable name (supplementary or imported like X, Y, Z) is now possible for calculated variable
- In the block model, the "set variable value" has a new option to execute it in SQL (much faster)

Corrections :

- The boolean operation on exact mesh was not working well in the case of triangle superposition
- The pit optimization was not working well on very thin model
- In the resource reports, the calculated variable for fraction was not working
- The view Filter for drill hole was not working
- The cad object (prism, figures and geolines) now only redraw when necessary
- The "Estimation By Script" and "Classification By Script" dialog was crashing

Genesis 1.4.11 (September 25, 2014) :

New Features :

- Exact boolean operation on mesh
- Mesh Smoothing, Mesh Simplification, 3D Convex Hull
- Creation of mineralized intervals where hole intersect an envelope
- It is now possible to krige using GSLib (Ordinary Kriging or Indicator Kriging)
- Added copy view functionality in blocks model

- Added a mode for create views automatically (one view by tag value)
- Added the minimal length when creating composites by calculated length
- It is now possible to do a *tab* ou *shift tab* to change the corridor. Also, there is a new shortcut ("C" by default) to access directly the corridor dialog

Corrections :

- The copy of a color table did not work
- Changing multiple object from a folder to another in the dialog list could be very slow
- The Hole in 3D was not in the inverse color (it stayed black on black background)
- Geostat was crashing in 32 bits
- The size of the text of the hole name of size 6 did not work
- Fixed some problems with importation of Geotic file in 32 bits

Genesis 1.4.10 (August 15, 2014) :

Corrections :

- "File New" was crashing.
- "Reset Zoom" was crashing.
- "Kriging Irregular" was not saved.

Genesis 1.4.9 (August 12, 2014) :

New Features :

- It is now possible to display hole object in 3D (Tube)
- Added the minimal length when creating composite with calculated length

Corrections :

- In the new Geostat, the scattergrams where not always displayed correctly
- The snap was not working

Genesis 1.4.8 (June 10, 2014) :

Corrections :

- Fixed problems for importing dxf with multiple layers
- Fixed kriging with variable ellipsoid ; bad management of multithreading
- Cut-Off and Width in the schema was not saved

Genesis 1.4.7 (may 29, 2014) :

New Features :

- Added Indicator Kriging
- Added 4D in simple interface for optimization
- Added information on predefined block model variable

Corrections :

- The creation of a face envelope from a block model did not work with negative Z in the grid

Genesis 1.4.6 (May 27, 2014) :

New Features :

- DXF are imported as surface even if they are not valid (for superposed points on whittle pit)
- Importation of many surfaces in layers (DXF)
- Added Variable Ellipsoid for Kriging

Corrections :

- Fixed "**Save As**" problems
- Fixed "save" problem, was not always working (cad object)

Genesis 1.4.5 (May 21, 2014) :

New Features :

- New framework for data visualization and Graphics

Corrections :

- Fixed a problem with meshing when prisms had aligned points
- Fixed some problem with block model views

Genesis 1.4.4 (April 22, 2014) :

New Features :

- The importation of sub block now manage the rotated block model and the Classification
- Added an option for more precision when tagging an envelope in block model
- It is now possible to have many criteria in view creation
- It is now possible to access the dialog list (blocks,envelopes,prisms,figures and geolines) in demo mode.
- We can now export the true thickness generated by the projection of the composites onto a section

Corrections :

- The true thickness was not calculated correctly when doing a projection of composite on a section
- The voronoi was not managed correctly in a section with an angle (not orthogonal)
- The kriging of irregular blocks was crashing with more than 1000 selected composites
- The composites search could sometime not work properly on very thin blocks

Genesis 1.4.3 (Marsh 6, 2014) :

New Features :

- New merge functionality for composites
- New functionality to create a set of capped composites

Corrections :

- The importation of hole data (csv or GeoBase) could crash
- The estimation parameter was not always saved correctly when adding or deleting variable

Genesis 1.4.2 (February 28, 2014) :

New features :

- New function for calculation hole trace

Corrections :

- Many problem of tables saving, in particular on new project
- Problem of managing indefinite value (division by zero) in calculated variable
- Many problem with intervals edition (Move did not work properly, dilution was not working anymore, wrong calculation)

Genesis 1.4.1 (February 26, 2014) :

Corrections :

- The default value of variable from the global schema was always reset to -1 when opening a file. Same thing for the missing value.
- The creation of mineralized intervals on an assay was not done on the correct assays and/or hole
- The importation of sub block (Reblocking) now manage correctly the missing value

Genesis 1.4.0 (February 21, 2014) :

New Features:

- Toutes les tables de données de forage sont maintenant GIS.
- Nouvelles tables de légende.
- Ajout du nombre de composites et d'intervalles dans leurs panneaux respectifs.
- Lorsqu'on génère un modèle de blocs, il y a maintenant une option pour choisir dans quel sens l'algorithme de perçage (cross) vas être effectué.
- Dans les paramètres de rapport de ressources, on peut maintenant entrer un cutoff directement au lieu d'avoir besoin de créer une variable calculée.

Corrections :

- The resource report was not working when using a calculated variable for the density
- The extraction of block model with seam was not working
- The views on block model was not working properly on rotated block model

- The Importation of data with the option "overwrite only" was not working properly

Genesis 1.3.4 (Decembre 4, 2013) :

Corrections :

- The select Geoline had disappeared
- The variable ellipsoid did not work on rotated block model
- Fixed The importation of many envelopes at the same time

New Features :

- Added Function RAND(), RAND(x) et RAND(x,y) in the syntactic analyser.

Genesis 1.3.3 (November 5, 2013) :

Corrections :

- The edition of commodity variable in the block model was crashing
- The alteration and mineralisation where not drawn

New Features :

- It is now possible to create views on block model

Genesis 1.3.2 (October 9, 2013) :

Corrections :

- The Pit optimization is corrected (the mining cost was doubled in the economic function) and is now positively compared with Whittle
- The creation of Voronoï with a minimal distance now generate a correct circular frontier. (the frontier was sometime random)

Genesis 1.3.1 (September 18, 2013) :

Corrections :

- In Pit optimization, the mode commodities :Fixed was not implemented
- The import/export of dictionary did not work
- The estimation of blocks by script did not use the envelope for filtering the composites

New Features:

- In the dialog list (bm,env,...) Added a new visualisation mode that let see only the content of a folder instead of viewing the folder and all its subfolder

- We can now select tie line and delete them
- Added a shortcut for options->Data (Q by default)
- Added a link in the tooltips of the blocks model to access directly the block model from the list

Genesis 1.3.0 (September 5, 2013) :

Corrections :

- "Recalculate All Intervals" was not working
- The creation of pseudo-hole was generating fatal error
- The edition of intervals crashed when pressing "Esc"

New Features:

- **Possibility to add personalized hole table like in GIS**
- In blocks model, added the function to extract by SQL Query, wich is much faster than Boolean extraction
- Added the display of oriented structure
- We can now select ellipsoid and modify their properties

Genesis 1.2.11 (August 19, 2013) :

Corrections :

- The selection of blocks was not always working properly
- When copying envelopes, the copy did not keep parameter (color, display mode etc.)
- The exportation in DXF of CAD objects was generating empty line and the file could not be opened in AutoCAD
- The importation of composites was inserting -999 instead of the missing value
- The composites was not displaying the number decimal specified in the global schema

New Features :

- Added the variables X,Y,Z at the extraction of blocks by boolean function
- Added the perspective visualisation mode, and it is now possible to view genesis in 3D if you have the necessary material.
- In the report of block model, added the information of the density variable and filter variable
- In the report of block model, added the line Indicated+Measured
- Displaying blocks is now faster (the search color is improved when there is only one variable in the search table)
- Added the number of blocks in the column size of the block model

Genesis 1.2.10 (June 27, 2013) :

Corrections :

- The importation of hole database (Geobase or Geotic) with the option overwrite crashed
- The reports in xls was sometime having unusual negative value
- The generation of variables ellipsoid is now managing all case
- Added variables ix, iy, iz in the Extract by Boolean function in blocks model
- The importation of a database in 64bits with office 64bits is now working properly
- There is now a significative error message when attempting to import a 32 bit office documents with 64 bit genesis or vice versa

New Features :

- Added a verification of overlaps in the mineralized intervals
- It is now possible to delete a variable in a block model
- New function for exporting many envelopes at the same time in dxf

Genesis 1.2.7 (May 27, 2013) :

Corrections :

- Tuning of variable ellipsoid on real projects
- Irregular krigging works (for at least more than 2000 composites)
- Fixed a problem of map plotting with some polyline

New Features:

- Report of blocks model now available in xls
- In the kriging of irregular blocks, the filter is now the maximum distance from the block model

Genesis 1.2.6 (May 15, 2013):

Corrections:

- The merge of block model was not working
- The scatterplot and histogram could crash when cancelling the selection of a block model
- The scatterplot and histogram could not work properly if global schema was different than composites schema

New Features:

- The creation of mineralized intervals and the tool for measuring distance is now available in spin mode
- In the operation of mineralized intervals, added the operation addition, wich simply merge two set of intervals

Genesis 1.2.5 (May 10, 2013):

Corrections:

- The Blocks model were all saved when estimating or classifying
- Many improvement to the blocks model log (classification, envelope, ellipsoid)
- The scale bar was black even if the background was black
- It was not possible to cancel the expand of a prism or figure
- The naming of editable object has been improved (was too restrictive)
- The extraction of composites by envelope can now be done with many envelope
- The importation and exportation of editable object in DXF was not managing the comments
- The merge of blocks model was not working when there was a calculated variable in the schema
- The bool envelope were not redrawn when modifying the formula
- Fixed an error when the variable in the resource reports was a keyword of SQL
- The project was not saved when doing a compact database
- The fast mode was something crossing the lines and did not want to create some polygon

New Features:

- New Variable Ellipsoid for the estimation and classification (with complete rewrite of the code for the composites search)
- Added the username in log of blocks model
- Added the option to export blocks model in xls and xlsx
- New envelope report that list the volume for each selected envelope
- Nouveau mode de visualisation des ellipsoïdes variables.
- Creation of variable ellipsoid from the geolines
- The tag by envelope from blocks model can now tag many variable at the same time
New function to extract mineralized intervals from an envelope

Genesis 1.2.4 (April 18, 2013):

Corrections:

- The ellipsoid was taking the transformation of a block model after a classification
- The white cursor on black background had disappeared

Genesis 1.2.3 (April 16, 2013):

Corrections:

- The solids where not going through certain point
- Fixed a few problem of managing snapped points (Display, Solid generation, tooltip)
- The path of the ellipsoid where not displayed in the dialog
- The text and the scale bar was disappearing when displaying a compass in 2D

New Features :

- Kriging of irregular blocks
- Generation on sections from geolines
- Invisibility of objects in fast mode

Genesis 1.2.2 (marsh 28, 2013):

Corrections:

- Modifying the name of an ellipsoid could cause a fatal error
- The limit by envelope of the estimation of a block model could be shifted
- The resource report of block model could sometime not use the good fraction field
- The section could have strange behaviour when having many ":" in the section name
- The subtraction of bool envelope was not working well when there was many subtraction in the formula
- The bool envelope of infinite size was not well managed
- The problem of the formula of the bool envelope being sometime lost is now probably resolve

New Features:

- Added a new demo mode for the dongle (limited in time or in number of used)

Genesis 1.2.1 (marsh 25, 2013):

Corrections:

- The importation of wedges was not using the specified table name in the dialog
- The redo of an object displayed in real coordinate was crashing
- The snap distance on objects displayed in snap mode did not work
- Fixed problems with the algorithm of volume by needling on thin envelope folded on themselves
- When importing hole data, the extent limit did not work properly

New Features:

- The optimization is much simpler to use and only need a topo and a block model
- The optimization is now much faster and the 4D was implemented
- We can now select many objects with a lasso or a rectangle
- It is now possible to extract composites by tag
- The densification now support real coordinate
- It is now possible to define the global grid from a block model
- It is now possible to display thickmark on mineralized intervals
- It is now possible to densify a surface using geolines
- It is now possible to move many objects at the same time

Genesis 1.1.18 (Marsh 5, 2013) :

Corrections:

- Many problems of clipping plane visualisation
- The block model displayed and then set to invisible were not repaint when the search table changed
- The transformation was not copied when creating a block model with the copy of the schema
- The Functionality Recalculate One Interval was not working
- In the dialog list, the sort order was not always kept

- The Envelope displayed in Raster mode was using the global matrix grid instead of the max extent of the envelope
- The Boolean envelope was not working when the block size were negative

New Features:

- It is now possible to choose the composites set to use when estimating or classifying a block model
- It is now possible to copy the classification configuration from un block model to another
- Added the number of block estimated or classified to the log of the block model
- Amelioration of the ellipsoid dialog (added field, azimuth, dip, spin, major, median, minor)
- Added the functionality to extract the mineralized intervals by tag

Genesis 1.1.17 (February 18, 2013):

Corrections:

- The blocks could become black and it was not possible anymore to apply the search table
- The estimation of the blocks model was using the global missing values instead of the one from the current block model
- Doing a save As and creating/modifying a block model could cause fatal error
- For the creation of a block model, the copy of the grid from another model was not working if the model was rotated
- We could not change the name of a planified hole in the property dialog
- The grid was sometime red instead of grey
- The tie lines were not following the points when they were displayed in exact position
- The option use projected coordinate was not working when meshing
- If we press on escape when loading a document, it is no more possible to save it (for not losing any data)
- The coordinate displayed on the bottom of the screen are rounded at 4 decimals (no more .99999999)
- The preferred corridor was staying as the ancient corridor when we were modifying the corridor of a section
- The pit optimisation was not managing the rotated block model
- The pit optimisation could crash depending on the slope parameter

New Features:

- It is now possible to merge blocks model with different grid; only the origin when the block size must be the same
- All operation of pit optimization now have a progress bar

Genesis 1.1.16 (February 8, 2013):

Corrections:

- The caps reduction to zero was not working
- The vertex could be drag when editing polygon and going in distance mode
- The creation of faces envelope from block model was not working
- The block model marker was not in the centre of the block when the model was rotated
- The dxf exportation did not have enough precision for the coordinate
- It was not possible to merge 2 block model with different default values

- The mesh points are showed on the real or projected coordinate depending on the selected option in solid/settings

New Features:

- New display mode fore envelope in wireframe and faces
- Can substract a blocks model from an envelope
- Can now give an envelope priority to the block model when doing a merge

Genesis 1.1.15 (February 5, 2013):

Corrections:

- The default value of the density was destroyed when there was a modification of the schema
- The change of the section name could generate duplicate or deleted element
- Removed a possibility of crashing when doing automatic meshing
- The snaps was sometime not working well
- The total in the prism report in csv was not displayed
- The view and export hole is now using the filter applied on hole
- The dxf exported in real coordinate(Snapped) could not be reimported in Genesis
- The dxf did not contain the linking information
- Fixed a flicking when changing section
- The deletion of prism or figure when displayed in real coordinate mode was crashing
- Keyboard problem fixed (loss of some typed character)

New Features:

- When creating voronoi, the possibility to give a maximum length to the prism is added
- Improved management of the wedge when importing from Geobase or Geotic

Genesis 1.1.14 (January 28, 2013):

Corrections:

- The exportation in DXF Real Coordinate could not work
- The Creation of new block model was not working well when doing a save as
- The color of the block model could not fit when modifying the global schema
- When typing text in the dialog, some character can miss.
- Automatic meshing could crash
- Amelioration of trace of trench for big intervals

Genesis 1.1.12 (January 23, 2013):

Corrections:

- The densification could destroy the points of the prisms and figures
- The caps creation could generate enormous prism or figures
- A crash could happen on figure that was fold on itself
- The slicing on sections was slow
- The prisms generated by the slicing could not be saved

- The intervals could disappear when opening a file with a filter on the hole
- When creating voronoi the thickness of the prisms was wrong and they were not automatically recalculated

Genesis 1.1.11 (January 21, 2013):

Corrections:

- Interval property for mast mode it was written Tag instead of Zone
- The classification of a rotated block model was not working when using a screening envelope for the composite
- The seam envelope where not working properly when creating a rotated block model
- The composite could not load when the global schema was changed

New features:

- Amelioration of the "Select All" mode; if many elements are selected we can use the mouse wheel to scroll through the selected object
- In the block model it is now possible to modify the value of a variable

Genesis 1.1.10 (January 10, 2013):

Corrections:

- The Automatic Meshing was generating only one tie mesh
- The loading of intervals was slow
- The composites were not loading correctly when they were imported and the schema had a calculated variable
- The creation of intervals by lithology was not working if the lithology code was different from the lithology name

New features:

- We can see the angle of line in edition mode when pressing "SHIFT"
- There is a new automatic validation for the saved element with the loaded elements

Genesis 1.1.9 (January 4 2013) :

Corrections:

- Object Selection could cause fatal error
- Meshing on slim prism could generate degraded comportment

Genesis 1.1.8 (December 21 2012) :

Corrections:

- Fatal corruption possible when extracting composites by envelope
- The value of an interval could be "default" instead of "missing" if the preceding assays touch the interval by an epsilon
- There could be an infinite wait when selecting an object
- Can now add a point to the extremity of the geoline

- Some cursor was still black when using a black background
- When merging two block models, the transformation was lost
- When copying the schema of a block model the grid was not copied
- Print screen could not work when opening a document with a double click
- Amelioration of the display of error message when importing mineralized intervals

Genesis 1.1.7 (December 14 2012) :

Corrections:

- Importation of assays from flat file could failed when calculated variable where defined in the schema
- Multiple window problem fixed (resize, full screen, etc)
- The imported intervals could go past the hole length
- The composites could have an invalid schema and not be displayed correctly
- Voronoi creation could be very slow
- When creating map, the name of the map could be invalid

Nouveautés :

- New dictionary language
- It is now possible to change the color of the search table from the docking pane
- New scale bar, wind roses and north arrow

Genesis 1.1.6 (December 5 2012):

Corrections:

- Prism and Figures modification was not updating the date in the object list
- The mouse pointer could be offset when modifying user interface (toolbar, docking pane)
- The object like GeoLine could be very slow to import or open when they had the same name
- When exporting more than 1 block model in same time in Access, they were all exported in the same table
- We can now scroll in the list box of the generic dialog
- The Map Profiles were not destroyed when attempting to delete them
- The Option "Use One File" had to be checked for printing map
- The Automatic linking was sometime inverting the link
- Fix some issue with the automatic meshing

Features:

- New Selection mode for selecting any kind of object
- It is now possible to change the background color

Genesis 1.1.5 version (November 29 2012):

Corrections:

- Corridor were inverted when going from Sectcad To Genesis (Front <->Back)
- Object selection could not select the good object when 2 objects where superimposed
- The saving of mineralized intervals could failed when there was duplicate values

- In the List Box of the generic dialog, it was possible the element could go off the screen and be inaccessible. (temporary solution down arrow)
- The envelope list when creating bool envelope was empty (in 64 bit only)
- The Fast mode was sometime crossing the line
- The Global grid could change when there was a transformation setup
- The Map Profile were slow to load

New features:

- Possibility to load and save sections
- New Full Screen Mode (F11)
- The marker and the line for creating/modifying mineralized intervals are now more visible
- Added shortcut with CTRL/SHIFT in the tooltip bubble

Genesis 1.1.4 version (November 26 2012)

Corrections:

- The "BACKSPACE" and the "SHIFT+BACKSPACE" allow to surf into the last sections
- The envelopes of the preceding opened GNFT document were still drawn when opening a new document
- Mineralized intervals could disappear when changing document
- The modification of the name of a prism was sometime saying the name already exist when it was not true

New features:

- Undo/Redo of sections modifications
- Double click on mouse wheel + CTRL + SHIFT to reinitialize the corridor (+ and -)
- A Surface generated from block model now cover all block (instead of just the center)
- You can now choose the variable to import when importing a database and the schema is undefined

Genesis 1.1.3 version (November 16 2012):

Corrections:

- Add Cap on 2 prisms was not working
- Flicking with mouse pointer when going from spin to normal mode
- Flicking when spinning and selecting objects
- The section were not repainted when creating new sections
- The importation of mineralized intervals can no longer be greater than hole length
- Object copy was copying the old date instead of giving a new date to the object
- The 64 bit version do not crash anymore on some hardware when quitting the application

New features:

- Economical pit optimization
- Estimation/Classification in memory for block model (much faster estimation)

- Creation of voronoi diagram inside a prism (like polycad)
- Estimation of the grade of the prisms by intervals or by composites (like polycad)
- The creation of planified hole target the nearest point of a prism instead of the centre
- Composite generation, added the property minimum length of the composite at the end of the hole
- Creation of intervals by lithology, the zone is now the description of the lithology
- New color table with the color invisible

Genesis 1.1.1 (October 26 2012) :

Corrections:

- The creation of mineralized intervals by lithologies was not working
- The automatic linking of prism and figures was still mixing the order
- Using line width factor is now drawing using the right draw order
- The exportation of assays and other hole object was not working
- Add a button to show the RQD legend
- Pseudo Hole are no more generated on invisible prisms

New feature:

- Polycad Integration
- We can now set a prism or a figure invisible when clicking on the object

Here is the Release version of GENESIS. It contains the following new functionality:

- **A new performant graphic engine**
- **An interface with ribbon**
- **Docking panes for legends and new legends (block models and surface elevation)**
- **Management of set of prisms, figures, geoline, intervals and composites**
- **New compositing module**
- **Variography and statistic graphic**
- **Automatic meshing**
- **The creation and edition of polygons is completely redone, now highly performant**
- **Importation and exportation of prisms, figures and geolines in DXF**
- **Fast mode for creation of polygons**
- **Importation of Geotic**
- **Create new section from the current view**
- **Licenses management with hardware key (USB dongle)**
- **Creation of intervals with the geology**
- **Creation of surface from the intervals or geoline**

- **Display the extent of the global grid**
- **Management of the text size (grid and hole name)**
- **Image projection on a surface**
- **Creation of planified hole**
- **And much more...**