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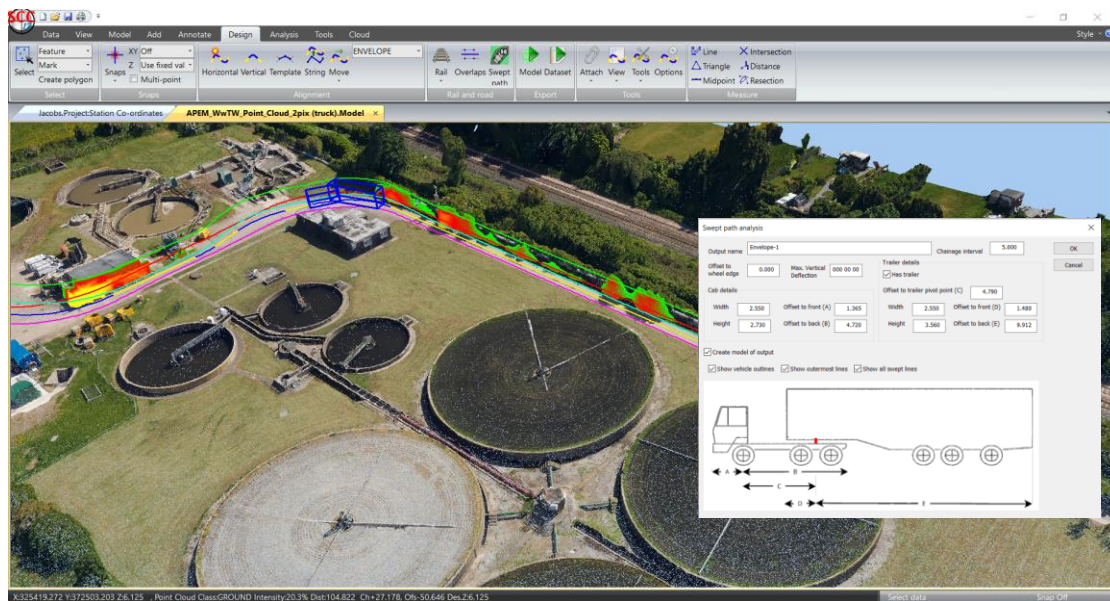
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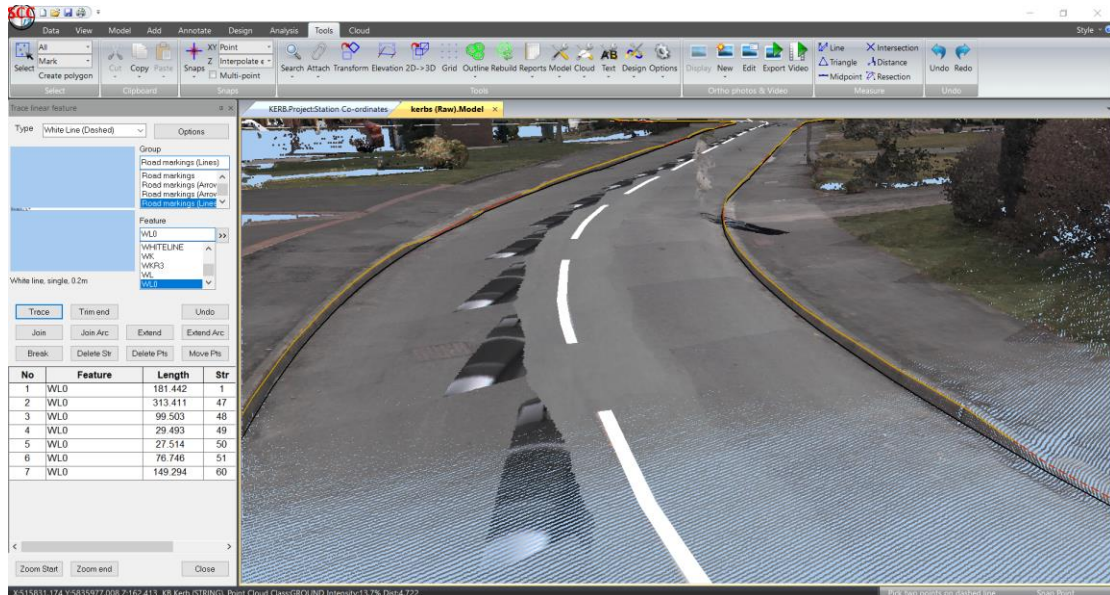
Date: February 2020
Re: SCC 13.21.6

We are pleased to announce a new interim release of SCC with SCC 13.21.6. This release contains the following modifications from SCC 13.17.4;

- Clash detection and swept path analysis for articulated vehicles, simple vehicles and simple templated surfaces. This is a full 3d comparison between all of the spaces occupied by a vehicle relative to an alignment and is suitable for a very wide range of clash detection scenarios such as bridge clearance. More details here <https://www.linkedin.com/pulse/when-artics-meet-point-clouds-shane-maclaughlin/>

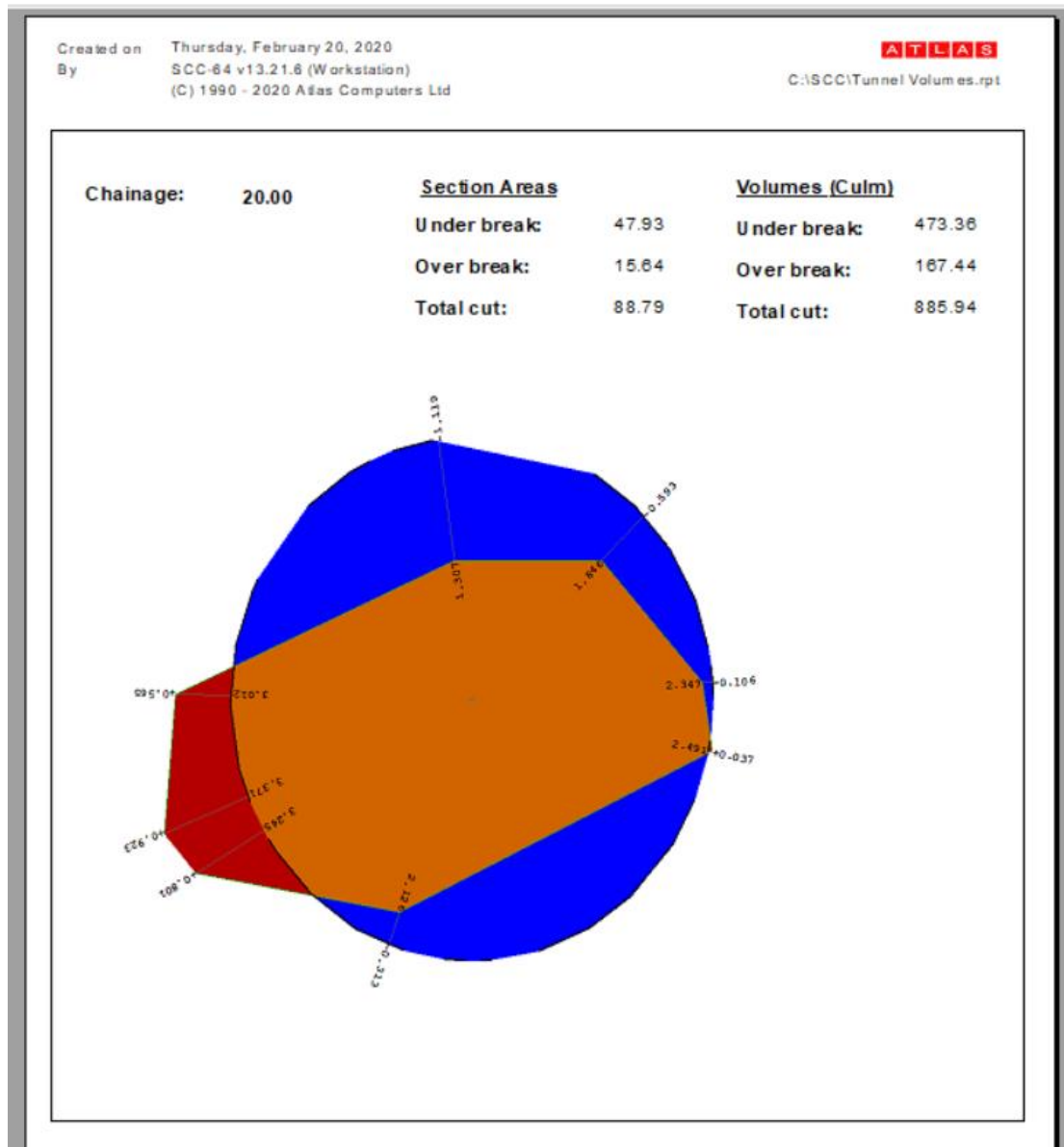


- Linear tracing tool has been updated to include a smoother that optimises curves and line work to user defined tolerances. This ensures that most extracted data requires minimal editing and strings contain the minimum number of points required to properly describe the extracted geometry.



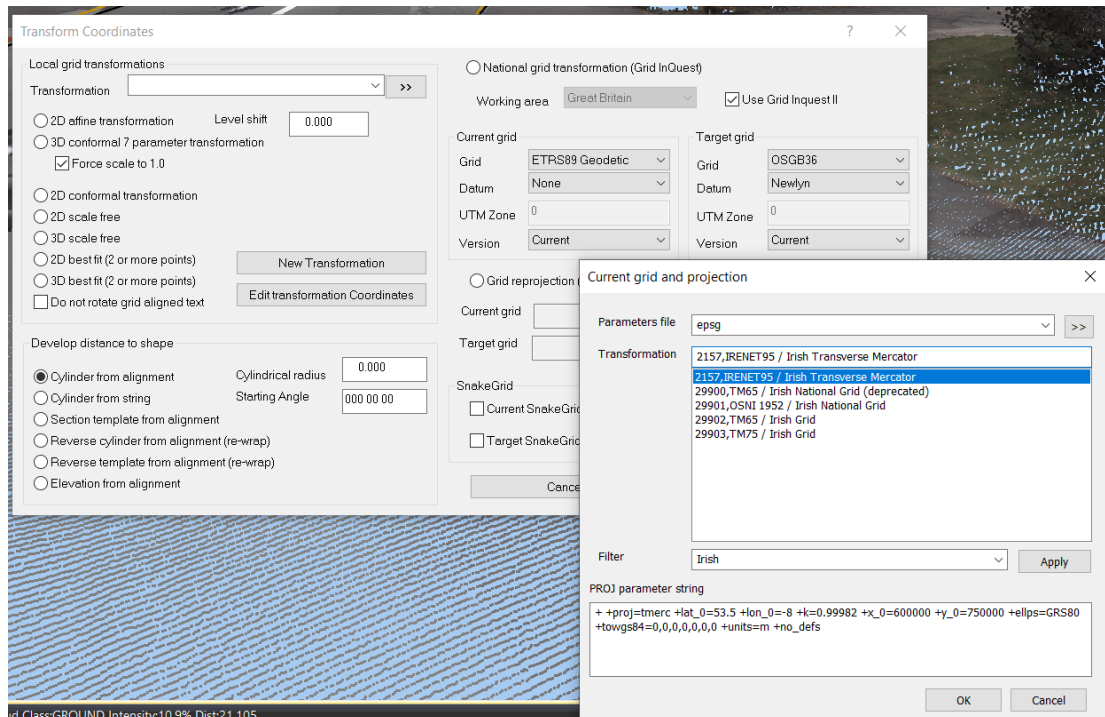
- Linear tracing tools for kerbs, white lines, break-lines, crash barriers and walls have been consolidated into a single easy to use interface with a range of simple on-the fly editing tools. When tracing kerbs extraction can be relative to top or bottom of kerb.
- Text output from all linear tracing is thinned to the specified output interval
- Level annotation has been turned on for default kerb and break-line features in the **Mobile LIDAR (Roads)** project template
- All curve fitting in SCC may now be done either by arc to chord tolerance (ATC), fixed interval or fixed multiple of curve points to survey points. This can be configured under Settings / Coordinate reduction parameters.
- The LAS and LAZ point cloud import now supports simple and extended classification point classifications
- Point cloud input now includes an intensity balancing option. This provides a better range of visible intensities when importing data with poor intensity balance.
- An additional point cloud transformation option has been added to for unfolding streetscapes and curved building edges to form composite elevations for ortho image production. See Transformations / Elevation from alignment.
- The ortho-image export now includes a JGW world file to go with the high-resolution jpeg in order to allow ortho-images to be easily inserted into CAD and GIS packages.
- Computation of point cloud to design separation, point cloud to reference model height difference, and wrapping and unwrapping transformations are now all considerably faster than in previous versions. Unwrapping now includes smoothing at change points in the input alignment.
- Alignment based cloud tiling and filtering options are now an order of magnitude faster.

- An addition point cloud selection option has been added for contours of a specified thickness
- A tunnel volumes option has been added to the Section/Edit tab. This includes closing missing links on scanned tunnels due to shadows and report underbreak and overbreak areas and cumulative volumes



- The option to annotate radii and radial differences now includes options to annotate points by surface as well as regular angle, specified angles and specified chainages
- Extra section annotation options have been added for level difference, cumulative level difference, cumulative level gain and cumulative level loss
- Automated rail extraction now includes an option to create the centre top string in addition to theoretical running edges and rail edges.
- Design export, including extracted rail export, now allows you to specify separate output intervals for straights and curves

- A new versine / Hallade survey option has been added to compute horizontal and vertical versines at specified long and short intervals. The tool is available under **Design / Rail / Report Versines** and can use either points on a string, regular distances on a string or regular chainages as the input. There are two report options based on whether you want to show horizontal and vertical versines and versine differences or horizontal and vertical versines and horizontal versine differences with vertical dZs.
- A new cant and gauge report has been add which includes coordinates
- New transformation options have been added to reproject between all major geodetic coordinate frames and datums with options to search and filter by common names



- When you export your point cloud to a new model using view point coordinates, e.g. an elevation, SCC automatically also saves two transformation files **<Your point cloud model name> (Forward).Transformation** and **<Your point cloud model name> (Back).Transformation**. The forward transformation allows you to bring any data added to the original model in to the transformed model at a later date. The back transformation allows you to bring data added in the transformed model back into the original model.
- When adding strings with a point cloud attached a yellow warning message is displayed in the status bar if a cloud point is not located at the cursor using the current snap settings
- When using an option that needs point cloud snap, such as base points in linear tracing, a red warning message is displayed in the status bar if you pick an invalid position and the pick is rejected
- When using an option that needs point cloud snap, if point cloud snapping is turned off a warning is displayed on screen and snap nearest is turned on
- Copy string and copy parallel now default to the active feature for the new string

- The option to export forward and backward transformations from a view point is also available under **View / Save Viewpoint / Export as transformation**
- The LandXML interface has been updated to better suit Topcon style use of attributes for strings, tags and DTM codes
- The Geomax interface has been updated to support splines available in the latest XPAD update
- The MX Survey interface has been updated to support point recall and advanced coding with fully coded MX labels
- An interface has been added for SDL traverse format for tunnels
- Updated Trimble DC format to support temperature and pressure records
- Updated Trimble JXL format to support temperature, pressure and PPM records
- The invert levels tool has been updated to allow results to be stored in the Z field in addition to dimension fields
- Join strings doesn't display string interactively, even without disable string snaps turned on
- String snapping and display can now be turned off in snap controls
- Pressing 'P' in models without point clouds in plan view toggles snap perpendicular on
- A bug introduced in 13.17.4 in extend to intersect been fixed
- A rounding bug cloud snap to median and snap to mean has been fixed
- A bug has been fixed where the default number of curve points was set to five causing small circles to appear as polygons
- Changing feature using the edit string tool now causes any remark to use the same feature
- A display bug where highlighted cursor text was slightly offset has been fixed
- A bug introduced in 13.17.4 in automated processing of steps been fixed
- The combined kerbs tool has been updated to better handle out of range top and bottom points
- The LandXML export for machine control has been updated for compatibility with latest Leica controllers
- Two additional options in the advanced part model options dialog have been added. The first controls whether curves are reprocessed with edits and defaults off. The second controls whether selecting a feature in the ribbon also resets tag, DTM and dimensions in the ribbon to that feature's default values.
- A drawing performance issue on large models with mixed fonts has been fixed
- Text selection is now disabled where all annotation is turned off
- A bug has been fixed with reprocessing of text on arcs after editing
- The limit of 240 ranges on volumes by depth option has been removed
- The MS60 interface to better support damaged or partial input data with missing and zero length files
- A bug has been fixed where text orientation was incorrectly oriented in some 3d views
- A bug has been fixed where text highlighting was not being displayed correctly after changing the drawing scale until the next regen

This release is available for immediate download using the links below;

Full install (1.5gb): <http://www.atlas-files.com/scc-users/setup-scc-13-21-6.exe>

Update (130mb): <http://www.atlas-files.com/scc-users/setup-scc-13-21-6-update.exe>

MSI full (1.5gb): <http://www.atlas-files.com/scc-users/setup-scc-13-21-6.zip>

MSI update (130mb): <http://www.atlas-files.com/scc-users/setup-scc-13-21-6-update.zip>

Please note running these installations requires administrator privileges to properly install all components and that all components (SCC, Faro SDK, Trimble Link Engine, HASP driver and VS service packs) must all be installed for the installation to work. SCC r13 with the ribbon interface is currently supported on 64 bit versions of Windows 7 or later. SCC r13 classic is available for 64 and 32 bit versions of Windows 7 or later.



We have a youtube channel of video tutorials covering most of the typical uses of SCC here We are regularly adding to this channel so if there is any specific area you would like to see covered by a video tutorial, please let us know. Please subscribe to our channel to keep updated with new material.

If you would like a demonstration of the new features or any existing features of SCC we can be contacted at 003531 4958714 (Ireland), or in the UK via +44 (0)1767 666100 (Visual-ize). The SCC r13 brochure can be downloaded here

If there are any new features you would like to see added to SCC or have any problems with any of the existing features we'd be delighted to hear from you.



To keep up to date with developments in SCC please join our user forum here or Linked In group here