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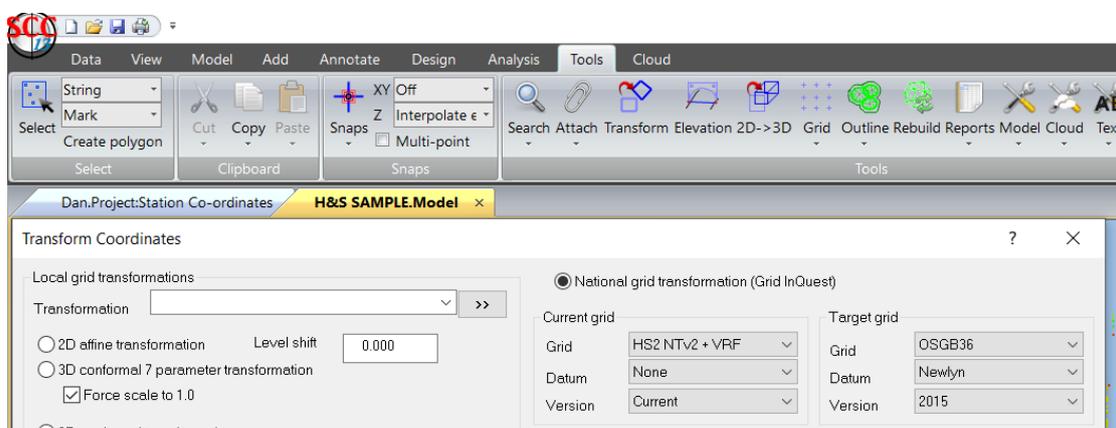
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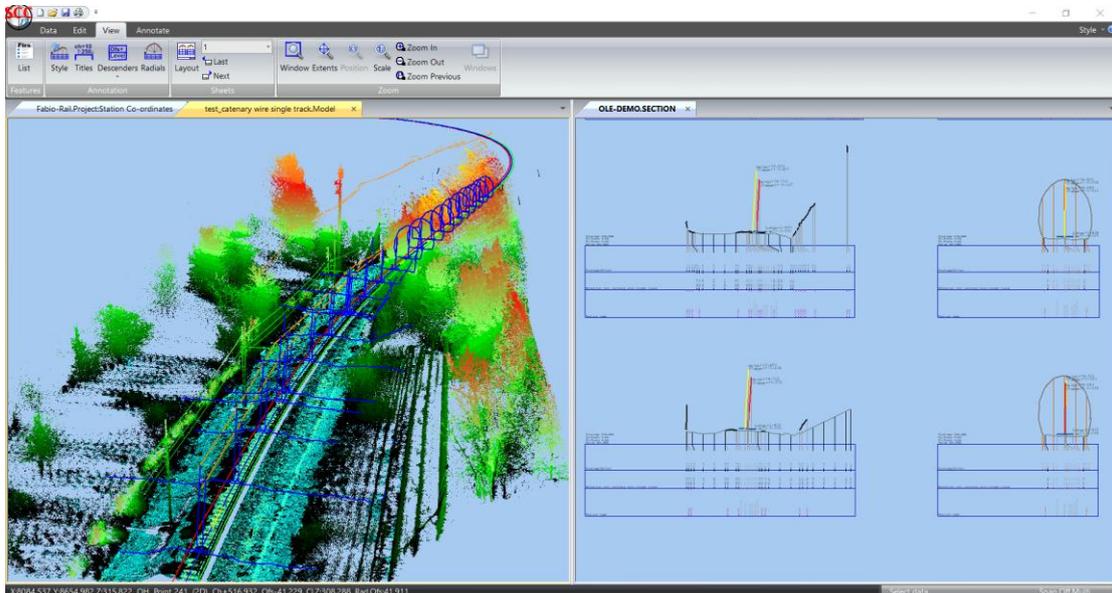
Date: August 2020
Re: SCC 13.27.4

We are pleased to announce a new interim release of SCC with SCC 13.27.4. This release contains the following modifications from SCC 13.23.3;

- SCC now fully supports **HS2 Survey Grid NTv2** and **HS2 Vertical Reference Frame**. This allows for seamless bi-directional transformations of models, surveys (both coordinated x,y,z and geodetic lat,long height), control and point clouds between OSTN02 and OSTN15 and HS2 using HS2TN02, HS2TN15 and HS2GM02, HS2GM15 in conjunction with Ordnance Survey Grid Inquest. Simply select HS2 as the current or target grid in the transformations dialog, or in the GPS lat/long/ht conversion dialogs from survey observations. Sample test data in coordinate and geodetic formats is available under C:\SCC\Tutorials\HS2-Trans

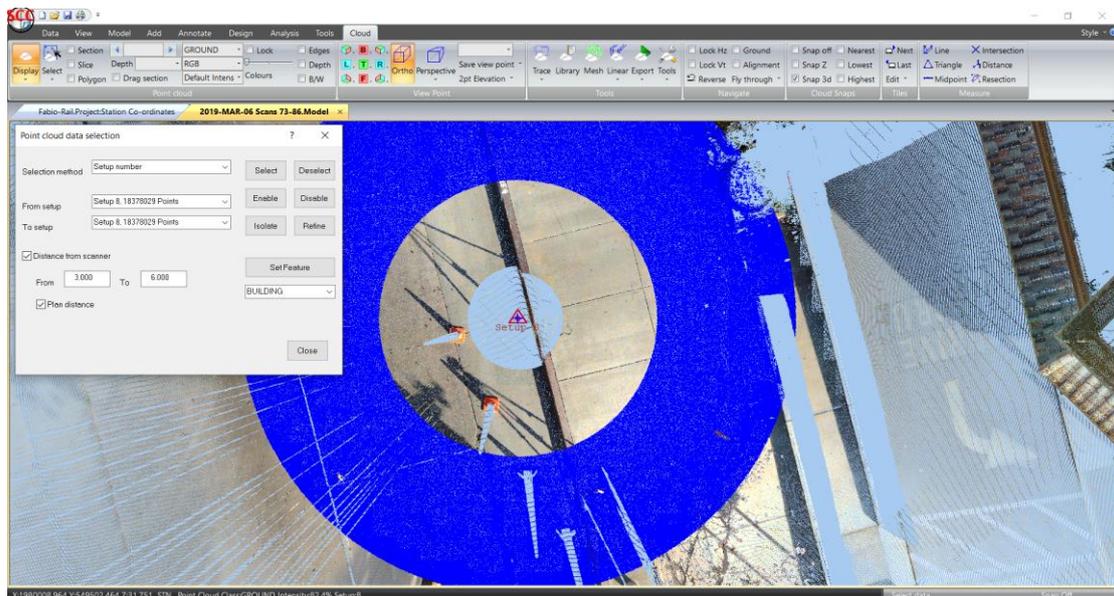


- The OLE height and stagger data extraction includes options to export height and stagger sections and a height and stagger profile, annotated with height, stagger, cant (super elevation) and gauge at each chainage. Additional section styles have been added to support this.



- The OLE height at stagger tool now includes separate support for single line and double line (catenary and contact line) scenarios and reports for each. Where two lines are present, it also allows for separate start and end positions for catenary and contact lines and user defined search tolerance between alignment and lines.
- Additional section options have been added for annotating user defined dimensions (d1,d2 and d3) on sections which also allow annotation of cant (super elevation), gauge and other generated data.
- Additional options have been added for radial annotation on sections to limit annotation to specified radial ranges and to weed out overlapping annotation. This is useful when reporting on tunnel volumes and when computing clash detection in tunnels.
- The tunnel volumes dialog now lets you specify a section style for reporting and changing radial annotation defaults. Extra section styles have been added for tunnel volumes sections.
- An additional correction has been added for automated rail extraction to support situations where scanned rail heads are only partially visible, for example for neighbouring rails adjacent to data scanned from a trolley.
- The editing in **Trace linear / Rails** has been improved so that it does not automatically move to the next chainage on the last point but rather stays at the current chainage to show the edits

- The Amberg import now also supports TGR format
- Kerb extraction has been further enhanced to support more precise automatic location of the change points between kerbs and drop kerbs and to smooth height of kerb. This also happens when using manual editing operations such as joining kerbs with arcs and straights
- When placing lamp posts, trees and other cylindrical features created using the automated extraction tool, features are now sorted in order of usage by this tool rather than alphabetically. This greatly streamlines placement of large numbers of similar groups of features.
- SCC now includes better support for structured scan data. When scan setups have been imported, you now have range selection options when selecting data by setup number. This is very useful for removing distant data and overlapping data where you have a lot of close setups in a job. It also allows you to classify and colour by setup.



- There's an extra button to control whether scan stations are imported when modeling cloud data. With this ticked setup data is available in the cloud selection dialog and scan stations are written to the model. This adds about 10% to the total point cloud size and is currently only supported for E57 input. It does not affect processing speed and this extra data can be removed using the **Tools / Delete extended attribute data** from the **Cloud** tab
- When creating point clouds you can change the default accuracy to be sub-millimetre for applications such as high precision floor flatness
- The **Tools / Filter ground** now works with isolated points to allow it to be run on specific areas of the point cloud

- Support has been added for import and export of DWG in AutoCAD 2018 and later DWG format
- A new option has been added to CAD export that allows you to export in active viewpoint coordinates when exporting in 2D. This provides a very simple workflow for creating elevations when used in conjunction with 2-point elevation tool
- A feature name field has been added to the traverse observation sheet and this is also used when creating stations during adjustment. This can be useful for distinguishing between different target types and uses
- A feature name field has been added in extract grid of levels
- A license request button has been added to the module licenses dialog in general options
- Cross sections from alignment now default to variable width rather than fixed width
- The version of PROJ used for geodetic transformation has been updated to version 7.0
- The survey notes spreadsheet now displays the survey ribbon bar
- Three-point text orientation now works better in non-plan views
- The dialog height on the parallel strings dialog has been reduced to support smaller screens
- Cross sections from alignment now support starting at an irregular chainage
- Point cloud analysis using an attached TIN model for heights is now considerably faster. There have been further performance improvements in computing point cloud height difference, point cloud design separation and filtering ground.
- Bug fix, selecting all similar points was not working with single point strings
- Bug fix, point cloud intensity colour schemes created in earlier versions were not being upgraded correctly
- Bug fix, point cloud rendering when zoomed out was losing resolution on some scan data
- Bug fix, a potential crash in editing during automated kerb extraction has been removed

- Bug fix, an error in the GPS X,Y,Z download reading attributes in D1 has been fixed
- Bug fix, Edit String details option was sometimes returning to the wrong window when closed

A number of issues from release 13.27.2 are also corrected in 13.27.4

- DWG output uses previous versions of ODAConv when outputting to AutoCAD versions other than 2018 as the new version was causing issues with some models
- Model extents were not being set correctly when importing PTS files with a single setup
- Model export to CAD now filters any illegal text entities that are outside the model extents. These typically relate to automatically generated remarks from GPS input in DC or SDR format

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

Full install (1.5gb): <http://www.atlas-files.com/scc-users/setup-scc-13-27-4.exe>

Update (130mb): <http://www.atlas-files.com/scc-users/setup-scc-13-27-4-update.exe>

MSI full (1.5gb): <http://www.atlas-files.com/scc-users/setup-scc-13-27-4.zip>

MSI update (130mb): <http://www.atlas-files.com/scc-users/setup-scc-13-27-4-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](#)