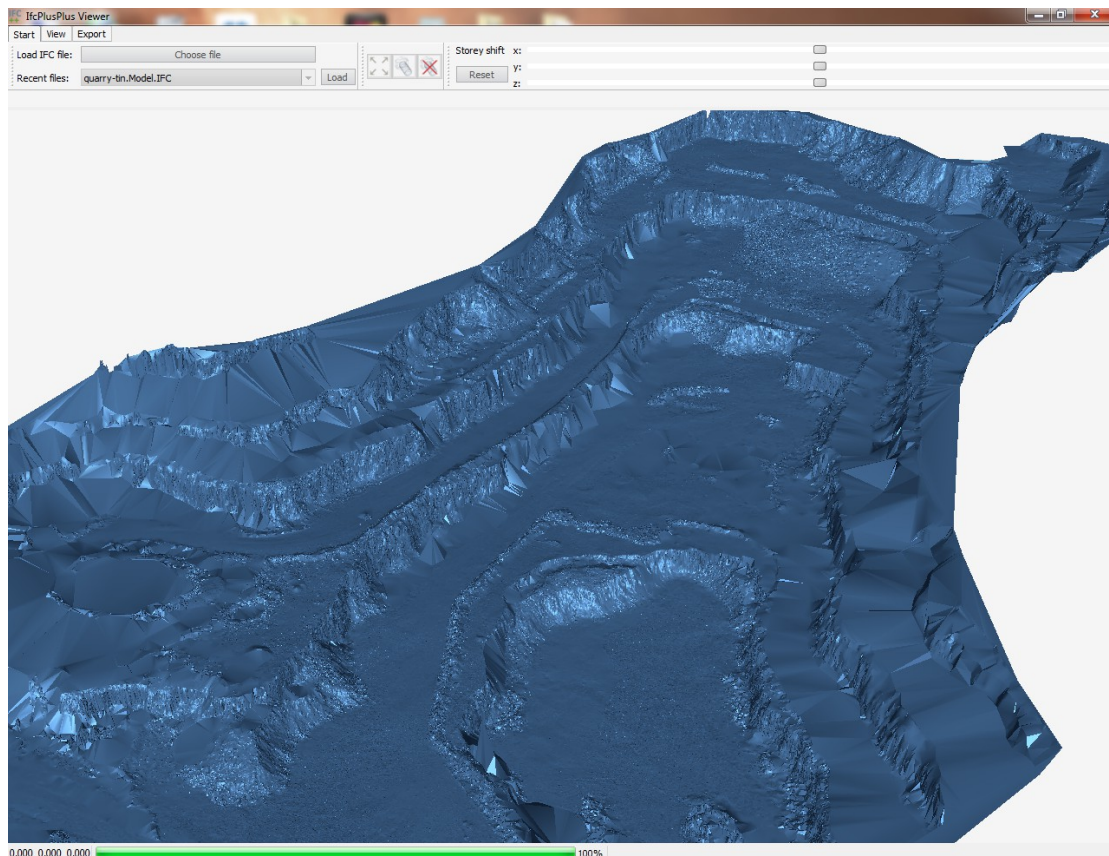


release¹¹ SCC Survey Control Centre

Date: December 2014
Re: SCC release 11.4.0

We are pleased to announce a new interim release of SCC with SCC 11.4.0. This release contains the following modifications from SCC 11.3.0;

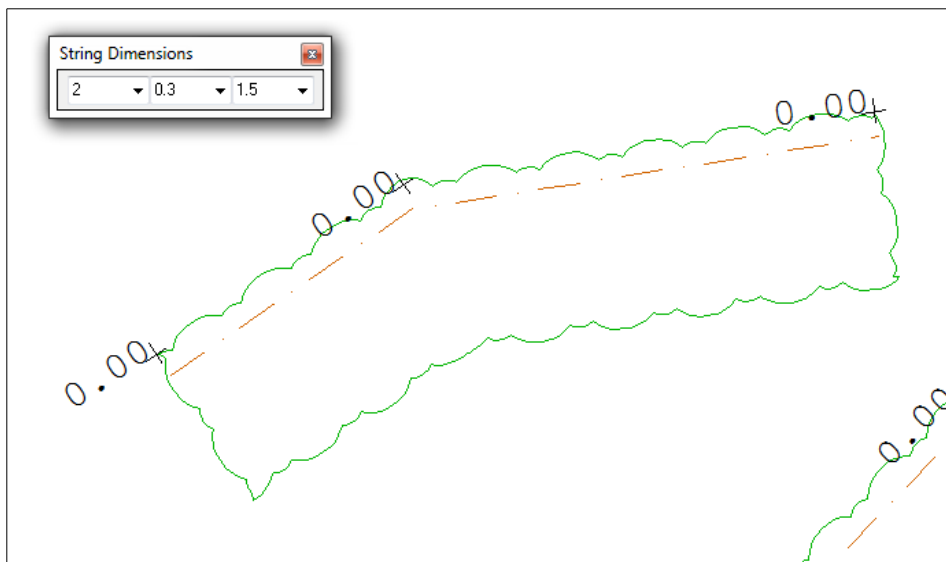
- An option has been added to export models in IFC format for import into most BIM packages such as Revit and ArchiCAD. This currently uses triangle ground types, with one mesh created per ground type.



(Mesh extracted from a scanned quarry viewed in IFCplusplus viewer)

This export is suitable for large models, such as meshes created from point clouds. Additional options will be added to this export in future releases to include mapping of discrete and linear survey objects onto BIM objects. Please contact us if there any other features you would like to see added into this export, to simplify surveying for BIM based projects and clients.

- The options to extract sections, trace slices and trace outlines from point clouds has been enhanced to create mean centrelines through cut objects rather than outlines. Automatic line and arc fitting, and line work tidying, has also been improved as a result and is considerably faster than in other versions. This applies to any point cloud features with an **Analysis** type set to **3D surface**, and also to all traces around selected points. Setting **Analysis** type set to **3D outline** creates an outline rather than a mean line, and is suitable for smaller cut strings such as rails and cables in cross section.
- An additional transformation has been added to allow transforming of plan models onto the insider of a cylinder. This complements the cylinder unwrapping tool, to allow editing of unwrapped models such as tunnels to be re-wrapped to the tunnel coordinate system.
- A new symbology type has been added to the feature library to allow surveying of windows by observing two point on the windows diagonal.
- The **Macro-line / strip level (side)** symbology has been enhanced to allow generation of an extra string offset from the macro-line edge, to simplify tasks such as surveying hedges with an offset root line. If the feature description includes text of the form CL=<Feature Name> and additional string with the name <Feature Name> is created using an offset specified in d2, as illustrated with the dashed brown line in the hedges below.



- An extra option has been added to the **Edit / Symbols** menu to **Explode a symbol or macroline**. This converts all the line work that made up the symbol or macroline into editable strings.
- The option to allow setting a view point origin and orientation using the mouse and keyboard has been made optional, such that those primarily working in plan can't inadvertently change their viewpoint. This is controlled under **File / General options Units and data checking / Allow mouse to be used to rotate**.

- All Crystal reports have been changed to show date at which the report was run rather than the date at which the report file was created.
- Two prism rail and overlapping string reports have been updated to allow alphanumeric point Ids.
- The traverse reduction option has been enhanced to allow storage of reduction standard deviations for each round in the residuals of the reduced observations.
- The STAR*NET output has been enhanced to allow inclusion of either standard errors or observation residuals as remarks. Inclusion of standard errors within the data has also been made optional.
- Signs on check shot residuals have been reversed to keep them in line with station set-up residuals
- Merged strings created with the string overlap function now keep surveyed comments associated with the original source strings.
- The DWG and DXF imports have been changed to automatically ignore hidden data within the input file.
- The import speed for large PTS files has been improved considerably.
- The processing speed for many point cloud operations has been improved, particularly those relating to cylindrical and alignment based analysis.
- Hiding or showing a point cloud in a model now also changes the default data selection dialog between surveyed strings and point cloud.
- The JXL import has been updated to support multiple feature codes and/or dimensions entered as a single feature code when using the advanced coding options.
- A bug has been fixed in the copy string and copy parallel functions where the distance used was rounded to the nearest millimetre, even if a snap was in place that would provide higher accuracy.
- A bug introduced in SCC 11.3.0 has been fixed in the macroline (side) processing, where negative dimensions were not being accepted.
- A bug has been fixed where values entered in the copy parallel and transform model dialogs were not being stored as defaults for subsequent use.
- A bug has been fixed in the Google earth output where orthometric heights were not being applied on 3d exports.

This is available for immediate download using the links below.

Full install (970mb): <http://www.atlas-files.com/scc-users/setup-scc-11-4-0-full.exe>

Update (75mb): <http://www.atlas-files.com/scc-users/setup-scc-11-4-0-patch.exe>

Please note when running these installations under Windows 7 or 8, download the set-up program, and from explorer use the **Run as Administrator** option given by right clicking the downloaded file.

If you would like a demonstration of the new features or any existing features of SCC, we can be contacted directly at 003531 4958714 or via SCCS at 0044 1480 404888.

To keep up to date with developments in SCC please join our user forum at <http://www.atlascomputers.ie/smf/index.php> or LinkedIn group at <http://www.linkedin.com/groups/SCC-users-4971870>