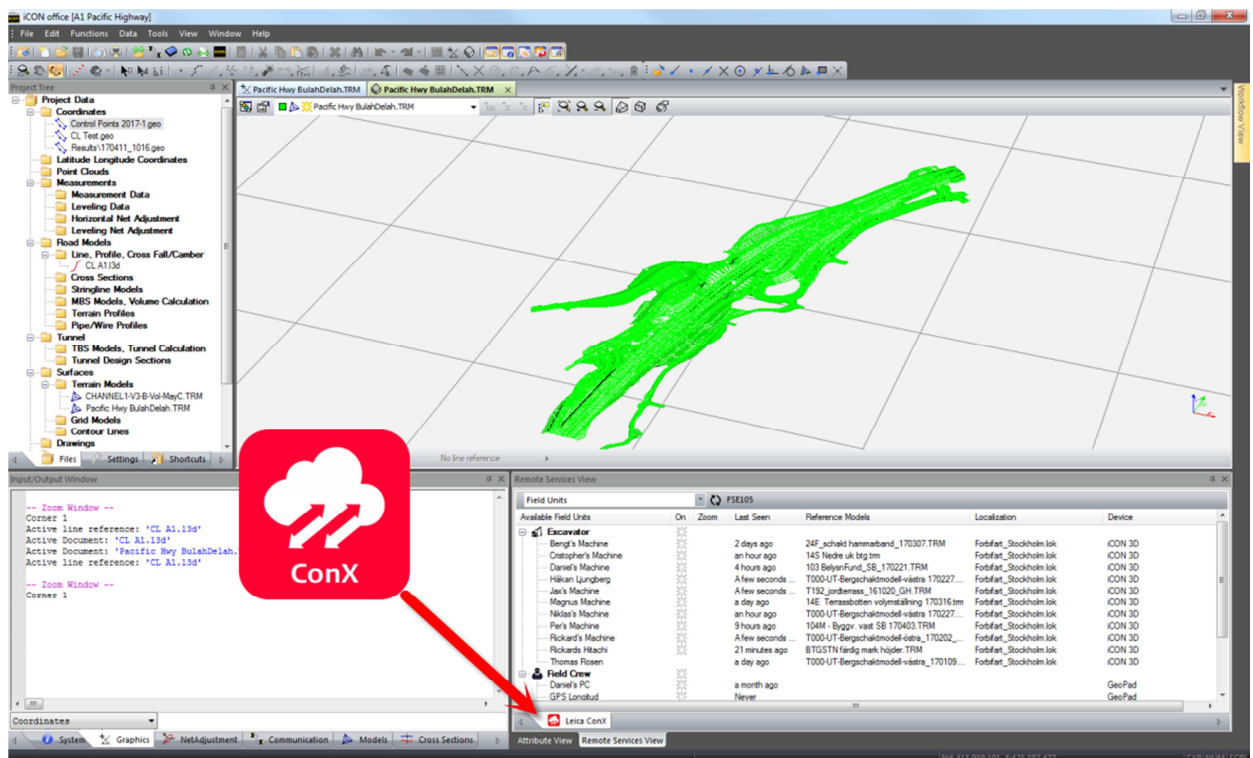


Product: iCON office
Date: 04.21.2017
From: Torgny Israelsson

iCON office release version 2017.1.970.92

New for iCON office 2017 is integration of Leica ConX. Users can connect to the cloud based service and manage project data for machine control and field crew units.



All users with a valid subscription will be able to download, install and run this new version. Check that that your subscription date expires after the release date of iCON office 2017.

To check the subscription date of your license go to the menu, Help>> About >> Subscription Date, in iCON office and check the subscription date.

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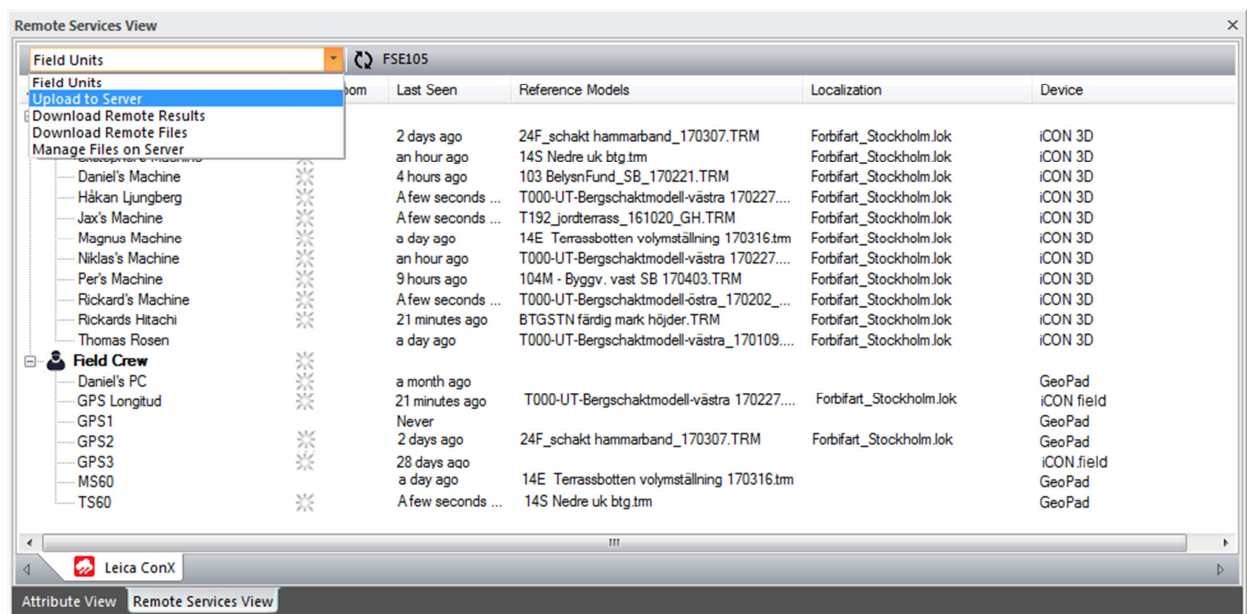
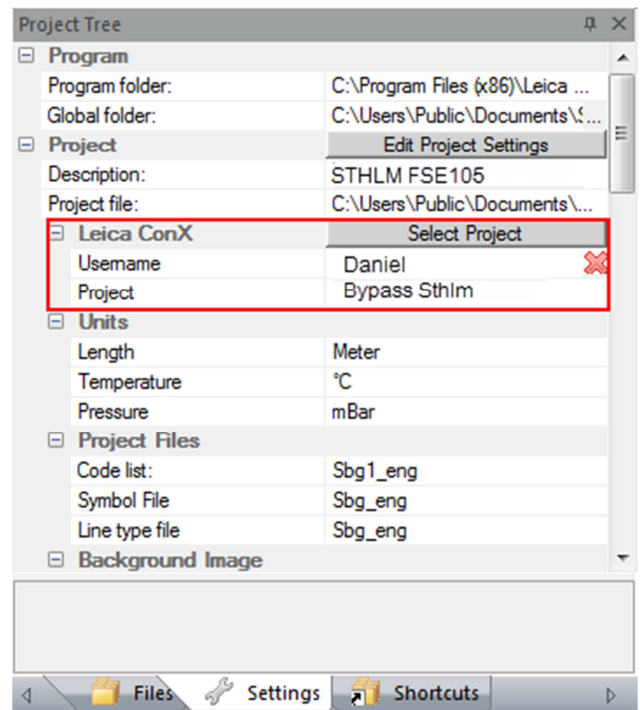
1 New Functions and Improvements

1.1 Leica ConX Integration

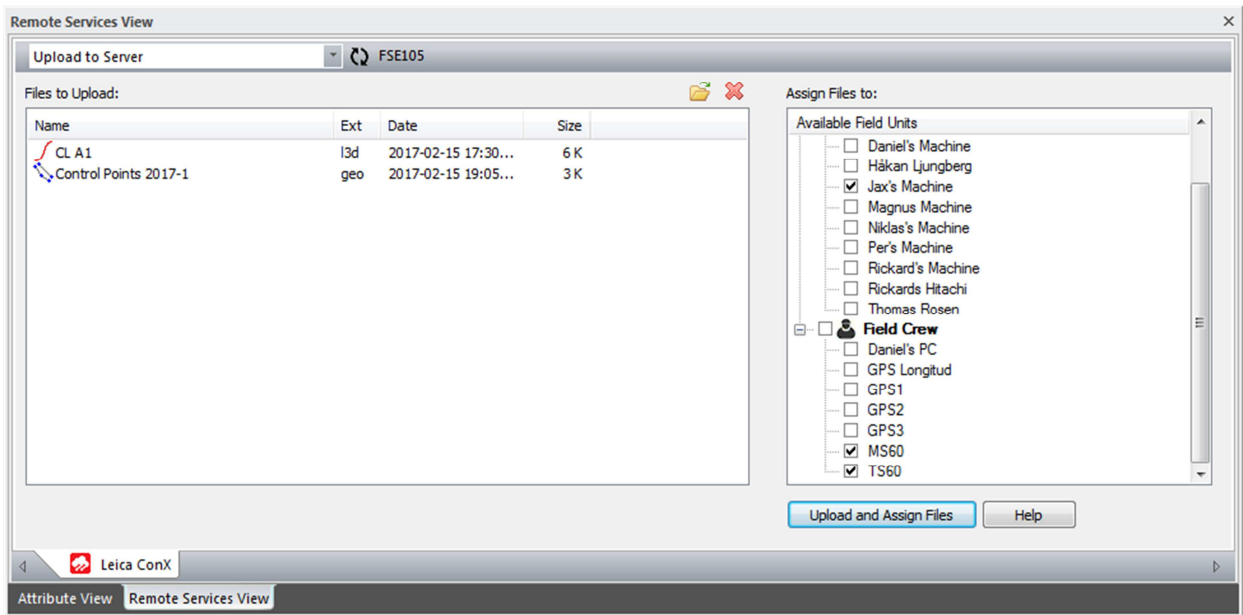
In project settings in iCON office it's now possible to use the Leica ConX credentials to login and link to a Leica ConX project.

A new *Remote Service View* tab is added and from here it's possible to manage project data for machine control and field crew units.

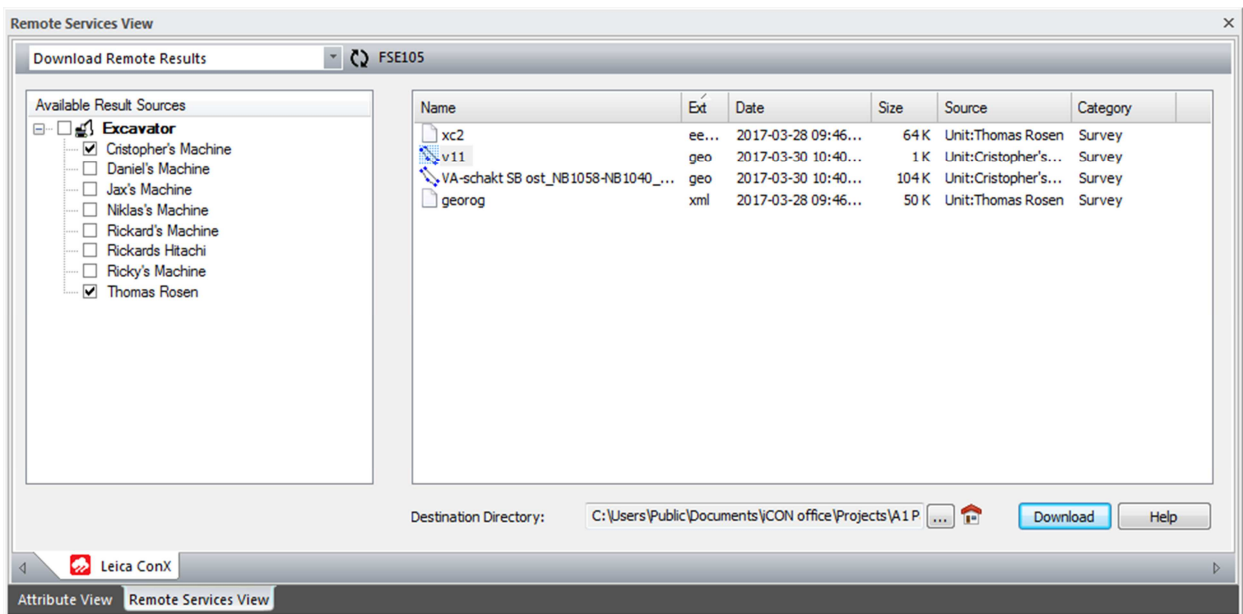
- It's possible to list available machines and field crews in the field.
- Display their positions in the graphics.
- Upload project related files like reference models, control points and coordinate system to Leica ConX and assign them to different units.
- Download surveys, asbuilt and reports uploaded from field units, to your iCON office project.
- Manage files on the server e.g. assign reference models to new machines.



In the drop down menu above it's possible to select between different options depending on what the user will do. If *Field Units* is selected, all machines sorted after machine type and field crews connected to the Leica ConX project are listed together with some additional information like last seen, active reference model, localization etc.

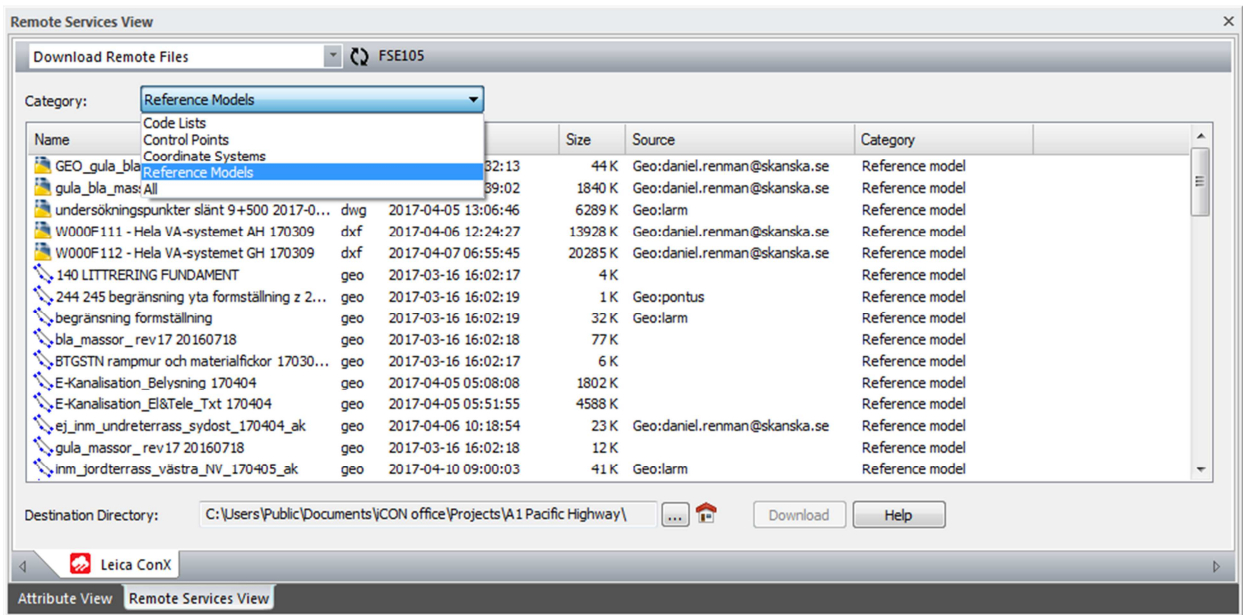


If the option *Upload to Server* is selected, it's possible to browse for, or drag and drop files to the upload area. Associated files are supported in the upload. In the tree view to the right, the user can assign which units that should have access to the files and hit *Upload and Assign* in order to start the upload.

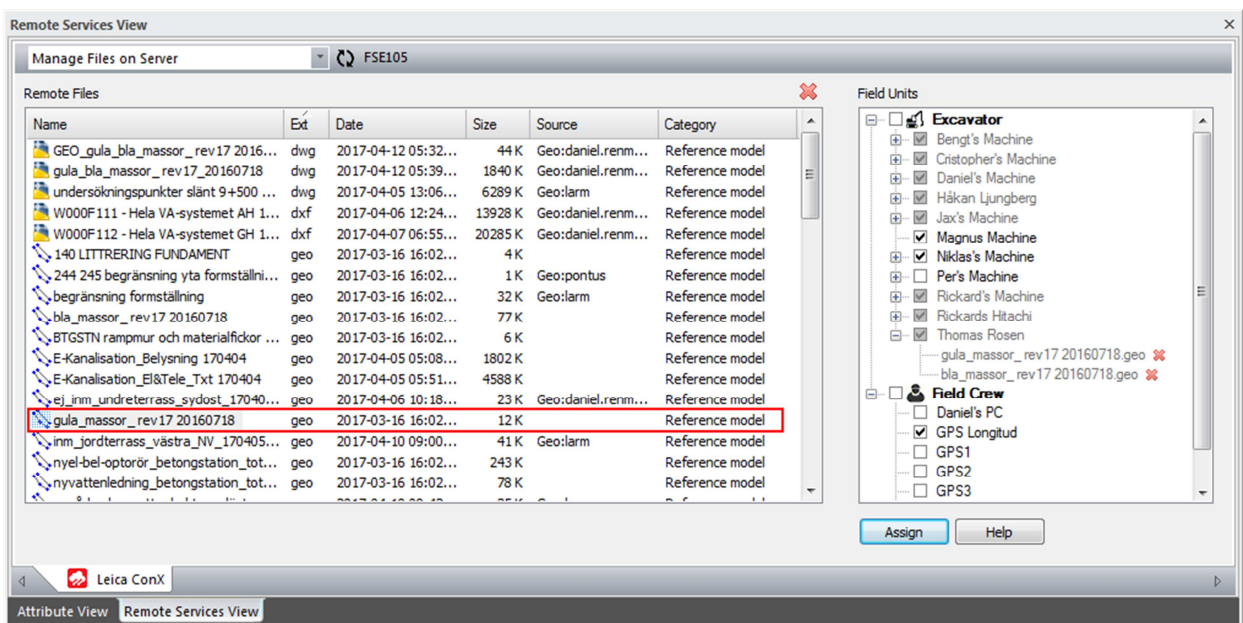


A typical workflow is sending measured data from the field back to office. In *Download Remote Results* all sources, e.g. machines or surveyors, which have uploaded asbuilt, survey data or reports are listed in a tree view. By selecting units, you are expecting data from, the files uploaded by these units will be listed to the right and can be selected for download to iCON office.

The default path is set to the active project folder in iCON office, but can be changed to any directory by using the browse button. The house icon will set the path back to the active iCON office project folder again.



In *Download Remote Files* all project related files, except asbuilt and reports, available on the server are listed and can be downloaded to iCON office. It's possible to filter by category, e.g. reference models, control points and coordinate systems, to get a better overview over the project data.



In *Manage Files on Server* it's possible to:

- Delete files on the server, by selecting a file in the list to the left and hit the red delete icon.
- Select a file and get an overview about which units that have access to the file. These units are greyed out in the tree view to the right.
- Select a file and assign it to other units.
- Expand a node for a unit and see all the files the machine has access to on the server.
- Delete assignments for a unit in the tree view, by clicking on the red delete icon to the right of the file.

1.2 Import / Export

12da import and export of 3D strings, TIN surfaces and alignments are now supported.

In order to simplify the workflow for 3D data used in the Leica iCON Alpine solution, import of binary and ASCII STL files is implemented.

Enhanced support for SDR3 from Sokkia and Topcon.

1.3 LandXML

When importing LandXML it was only possible to save the imported files in an already existing folder, now you can create a new destination folder when importing.

Support for reading HeXML version 1.8 is added.

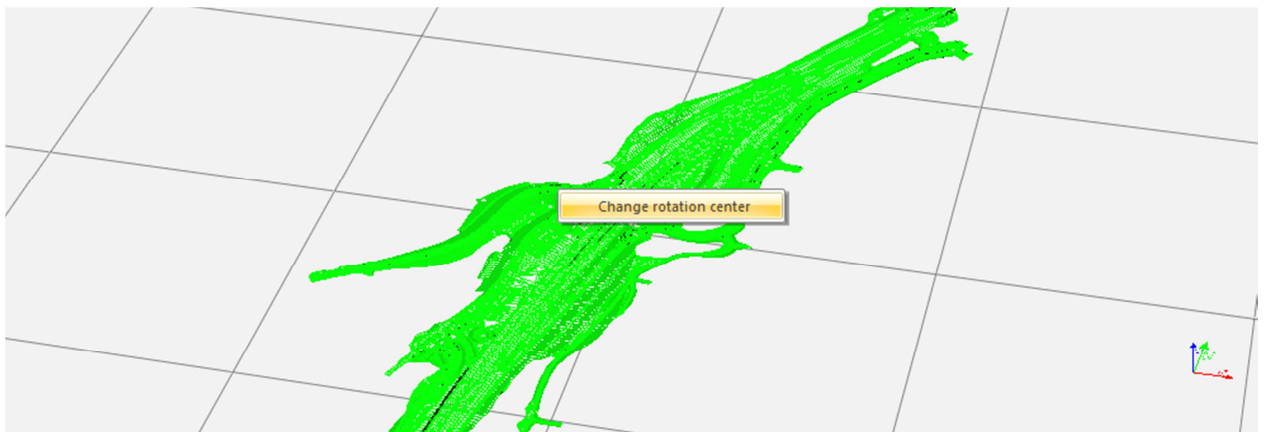
1.4 AutoCAD


In the AutoCAD export using code list, the description from the code list is added to the description for the AutoCAD layer.

Support for "MTEXT" from AutoCAD is added.

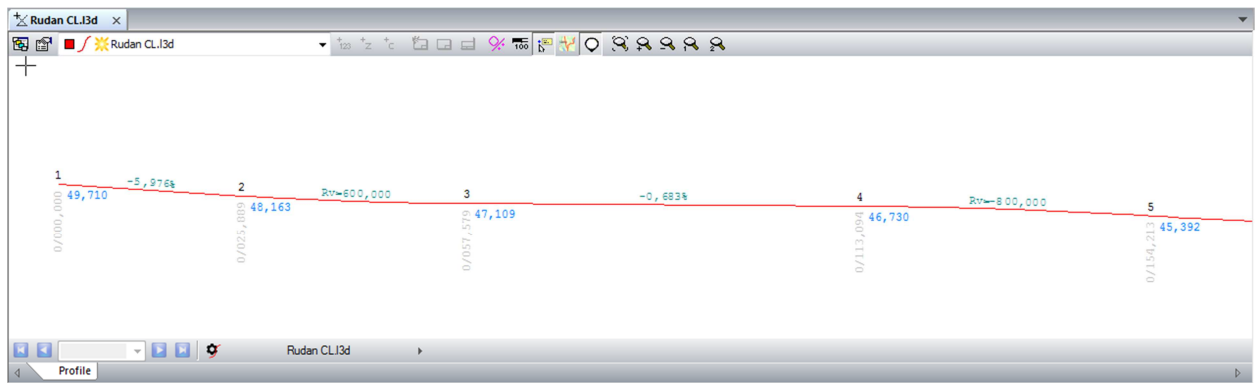
1.5 Graphics

In the 3D view the center of rotation can be changed with a new function. When in rotation mode, just right click and select the option *Change Rotation Center* and click in the graphics for a new rotation point. For better accuracy a snapping tool can be used.



In both 2D and 3D graphics a new snapping tool called *Snap to Vertex*  is added.

The vertical element height for road lines can now be displayed in both profile and plane view. In the image below the road line profile is displayed and the height for each element can be seen in blue below the profile.



When working with the Help Layer and graphically creating and interpreting points, lines and arcs a new option called *Save to Coordinate File* is added to the Data menu for the Help Layer. It's an easy way of saving all created objects to a coordinate file instead of copying objects one by one.

Copying a road alignment in the graphics, using the tool *Copy Line to Active Document*, to a coordinate file now supports parabolic profile.

1.6 Surveying

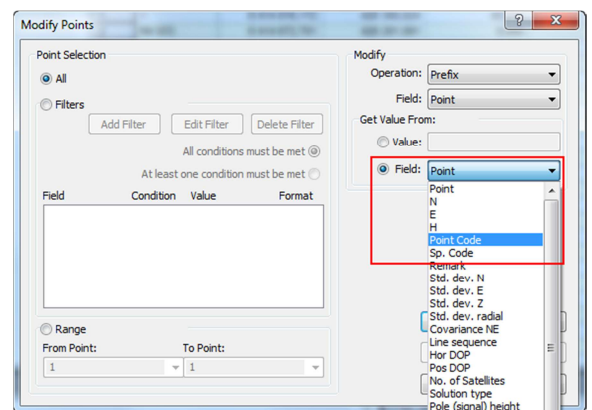
Calculations of a station setup on a known point with multiple backsights, the directions are now weighted with the distance squared.

1.7 Pile Intersection

The pile intersection calculation is now enhanced with the ability to other slope format as well as a rotation bearing of the coordinate system to get local deviation in the pile group.

1.8 General

More options are added to the function *Search and Modify*. A possibility to modify a column with data from another column and not just a fixed value, e.g. add point codes to point numbers as prefix or suffix.



2 iCON office modules

- 797955 CSW301 **Core Module** – Import/Export and basic functionality

Add-On modules:

- 797956 CSW302 **Road** – Advanced road line calculations
- 797957 CSW303 **Terrain** - Volume calculation model to model
- 797958 CSW304 **Volume** - Volume calculation by sections
- 797959 CSW305 **Tunnel** – Tunnel functionality
- 797580 CSW306 **Net Adjustment** - Network adjustment and calculations
- 832546 CSW313 **Point Cloud** – Import and filtering of scanning data

Available packages:

- 6007380 iCON office Core package, includes installation package, Core
- 6007381 iCON office Terrain package, includes installation package, Core, Road, Terrain
- 6007382 iCON office Volume package, includes installation package, Core, Road, Terrain, Volume
- 6007383 iCON office Tunnel package, includes installation package, Core, Road, Tunnel

3 Subscriptions

- 5305269, iCON office subscription 1 year
- 5305270, iCON office subscription 2 years

Provide serial number of the license or the hardware lock ID, when you order an extension of subscription. Use Dongle Tool to update the USB hardware lock with the extended subscription.

4 Leica myWorld

Please use Leica myWorld to find the latest version of the software. Access Leica myWorld by using the following link:

<https://myworld.leica-geosystems.com/>

If it is a new iCON office installation the HASP driver must be installed so the computer can recognize the USB hardware lock.

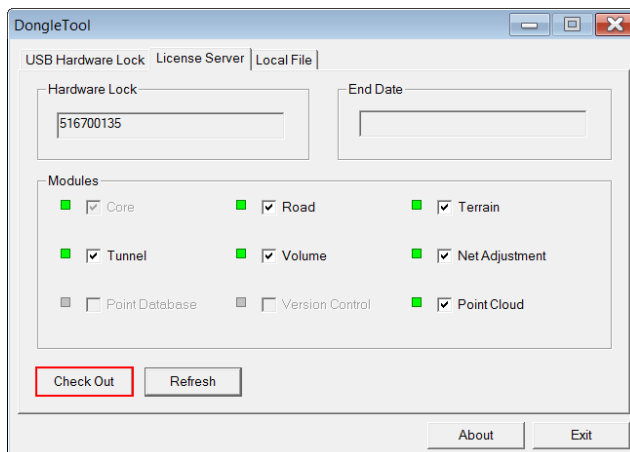
Point cloud utility is the point cloud engine and must only be installed if the point cloud module is purchased.



Menu of the installation package

5 Dongle Tool

Use **Dongle Tool** to update the hardware lock with extended subscription for Leica iCON office or to unlock new modules purchased for the license. Place an order using your normal order channels and when the logistics has processed your order, you can run Dongle Tool and update the USB hardware lock.



1. Insert the HASP hardware lock into the USB port.
2. Go to Start >> All Programs >> Leica Geosystems >> iCON office and select Dongle Tool.
3. To change the subscription date or to add/remove modules it is first necessary to check in the current license to the license server. This is done by pressing **Check In**.
4. Switch to the **License Server** tab. Select the modules open for use and then press **Check Out**.

This will give the hardware lock a new certificate containing the updated information.