

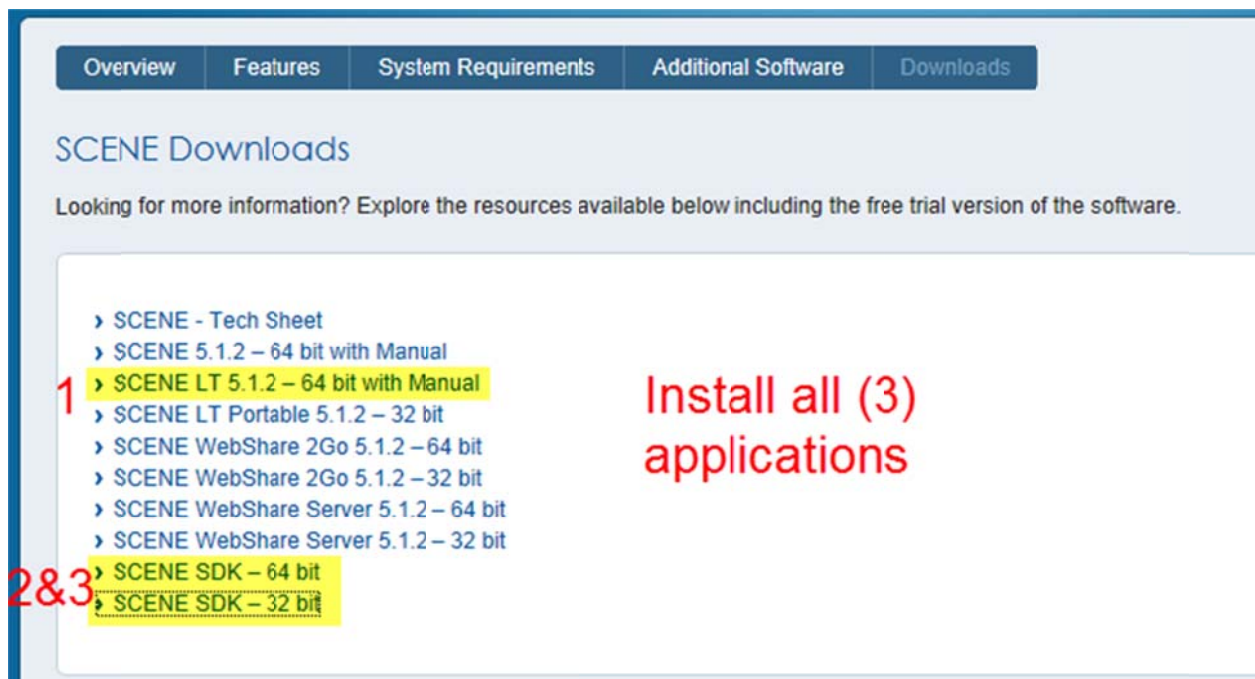
Faro Scene Installation and Importing into Revit 2013

Monday, April 08, 2013

<http://www.faro.com/en-US/products/faro-software/scene/downloads>

Installation Process:

1. Install the SCENE LT 5.1.2
2. Install both 32 bit and the 64 bit SDK's (both are required).

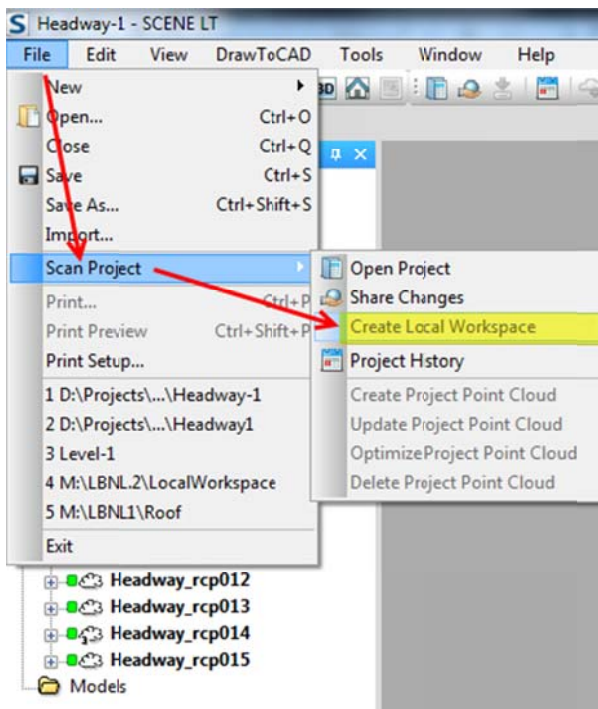


The screenshot shows the 'SCENE Downloads' page with a navigation bar containing 'Overview', 'Features', 'System Requirements', 'Additional Software', and 'Downloads'. Below the navigation bar, the page title 'SCENE Downloads' is displayed. A text block reads: 'Looking for more information? Explore the resources available below including the free trial version of the software.' A list of download links is provided, with three items highlighted in yellow: 'SCENE LT 5.1.2 - 64 bit with Manual', 'SCENE SDK - 64 bit', and 'SCENE SDK - 32 bit'. A red '1' is placed to the left of the first highlighted item, and a red '2&3' is placed to the left of the two SDK items. To the right of the list, the text 'Install all (3) applications' is written in red.

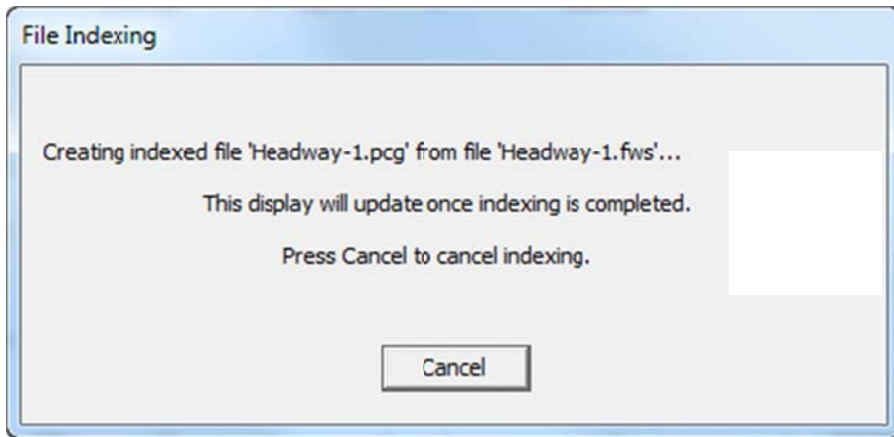
3. Reboot the computer
4. Click on SCENE LT 5.1.2 to activate the program
5. OPEN the scanner file. It will load all the individual files, which are visible within Scene 5.1



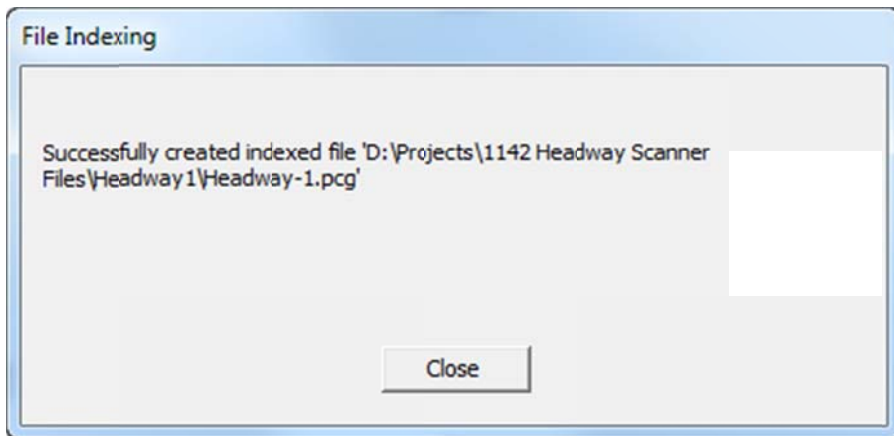
6. Next create the *.FWS format file.



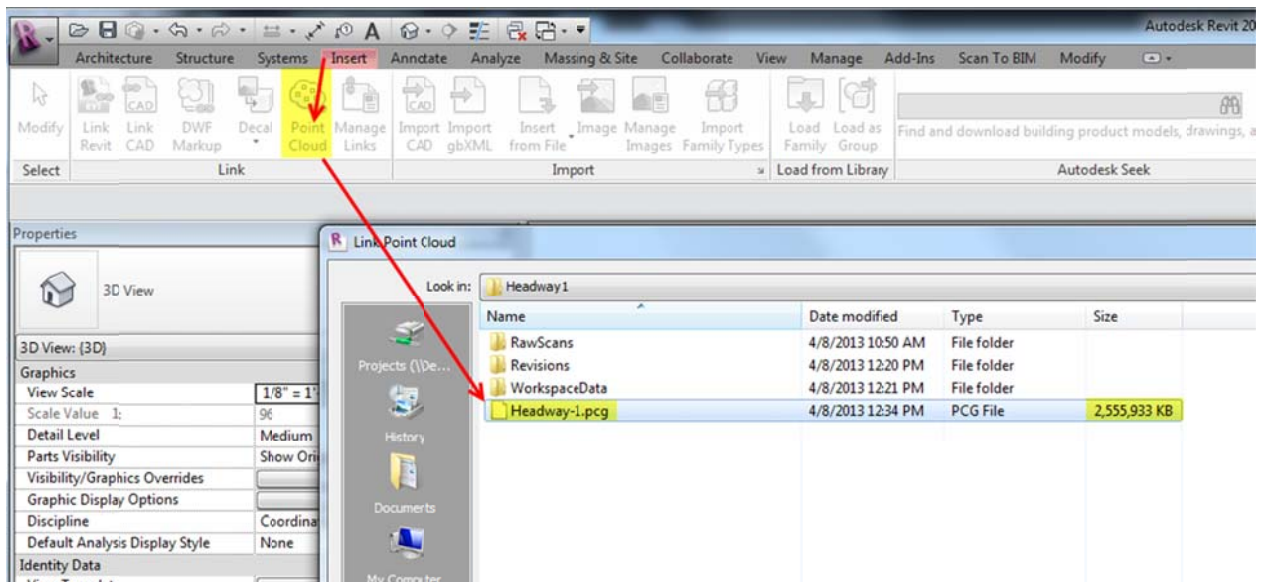
7. Import the *.fws file which Revit 2013 will index into the *.pcg format file which is the actual point cloud file. :



It takes a while to index.



8. Then once the *.pcg file is indexed, the file can be imported.



9. Once the Point Cloud File is imported, then it needs to be placed into a registration, rotation and vertical placement.
 - a. As far as I know the scaling issue from metric to Imperial units has been solved both by Faro and Autodesk.
 - b. First pick the rotation to be per the desired floor plan orientation. The rotation may be slightly off the desired X & Y coordinates so that may need subtle rotation adjustment.
 - c. Pick the desired registration point to work off of and place a well-defined corner of the point cloud at that wall intersection for example.
 - d. Next, cut a section in Revit and raise or lower the point cloud to match the project's datum line, in this case the top of carpet which should be about $\frac{1}{2}$ " thick.
 - e. To be visible, the point cloud needs to be checked within
10. Proceed with the modeling within the point cloud.