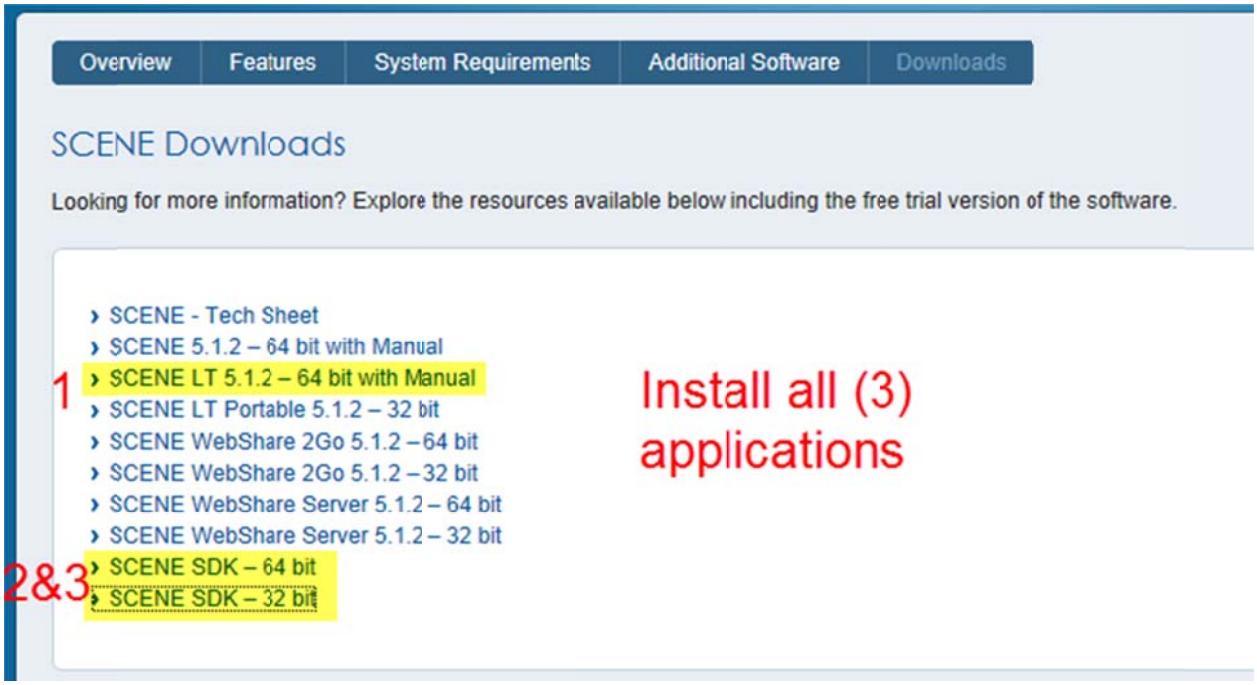
Faro Scene Installation and Importing into Revit 2013

Monday, April 08, 2013

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

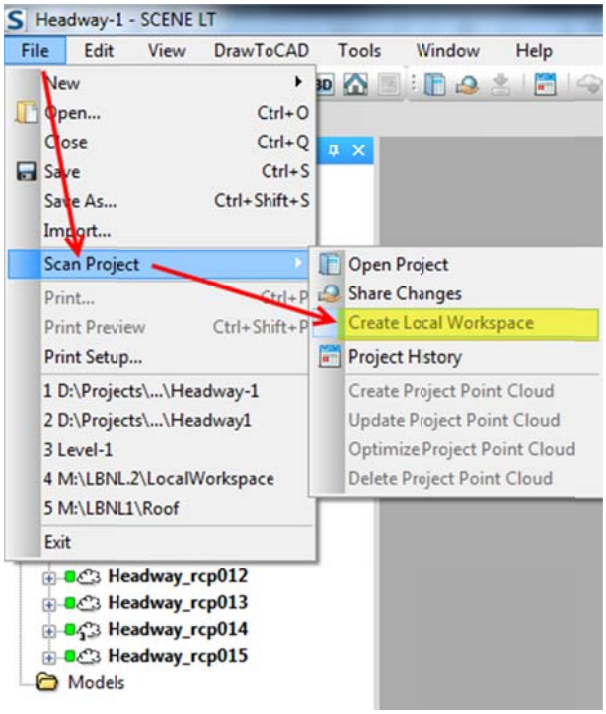
Installation Process:

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

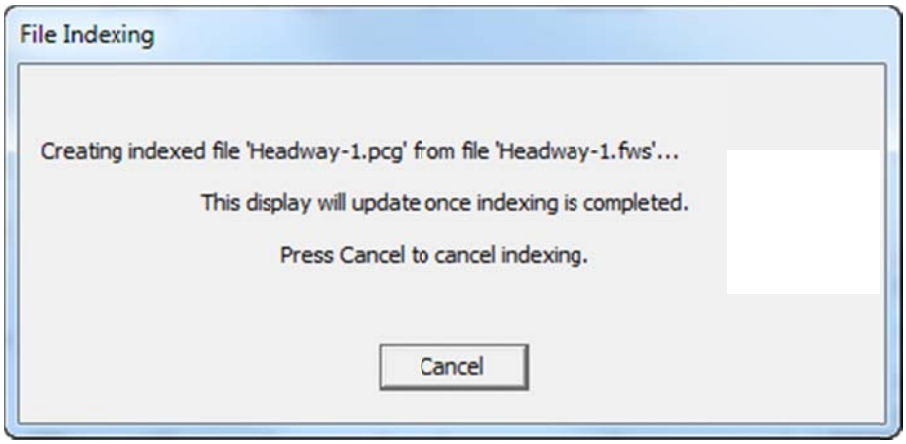


3. Reboot the computer
4. Click on SCENE LT 5.1.2 to activate the program
5. OPEN the scanner file. It will load all the individual files, which are visible within Scene 5.1

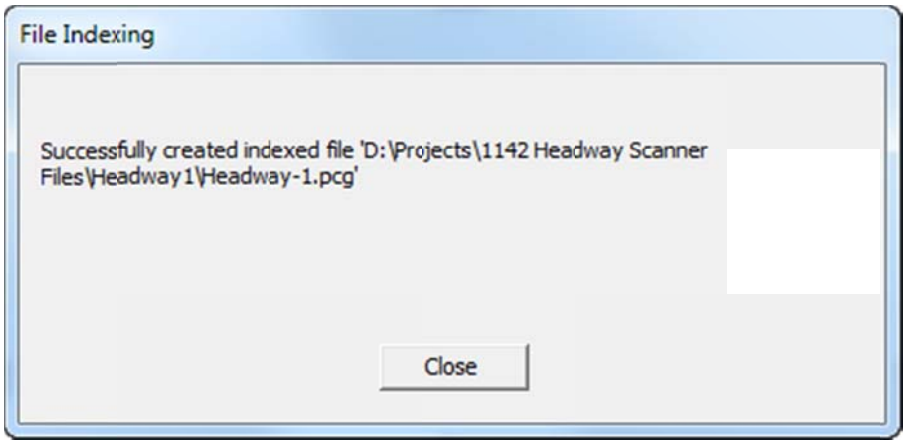
6. Next create the ***.FWS** format file.



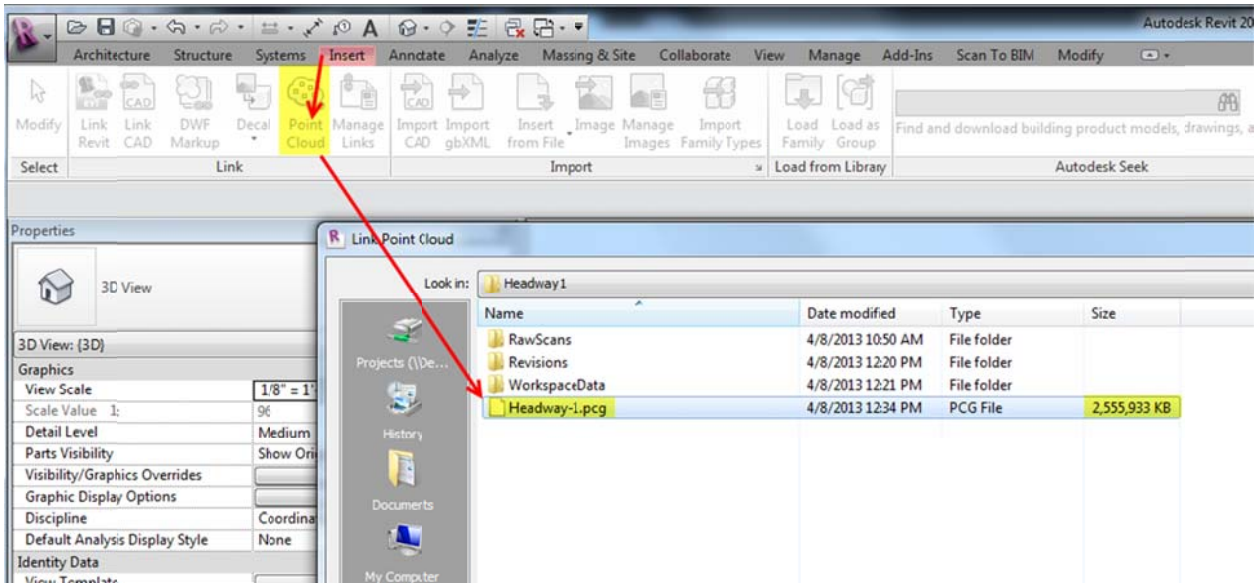
7. Import the ***.fws** file which Revit 2013 will **index** into the ***.pcg** format file which is the actual point cloud file. :



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 ½" thick.
    e. To be visible, the point cloud needs to be checked within
10. Proceed with the modeling within the point cloud.