

How to convert coordinate systems from TRFSET.DAT to *.lok files

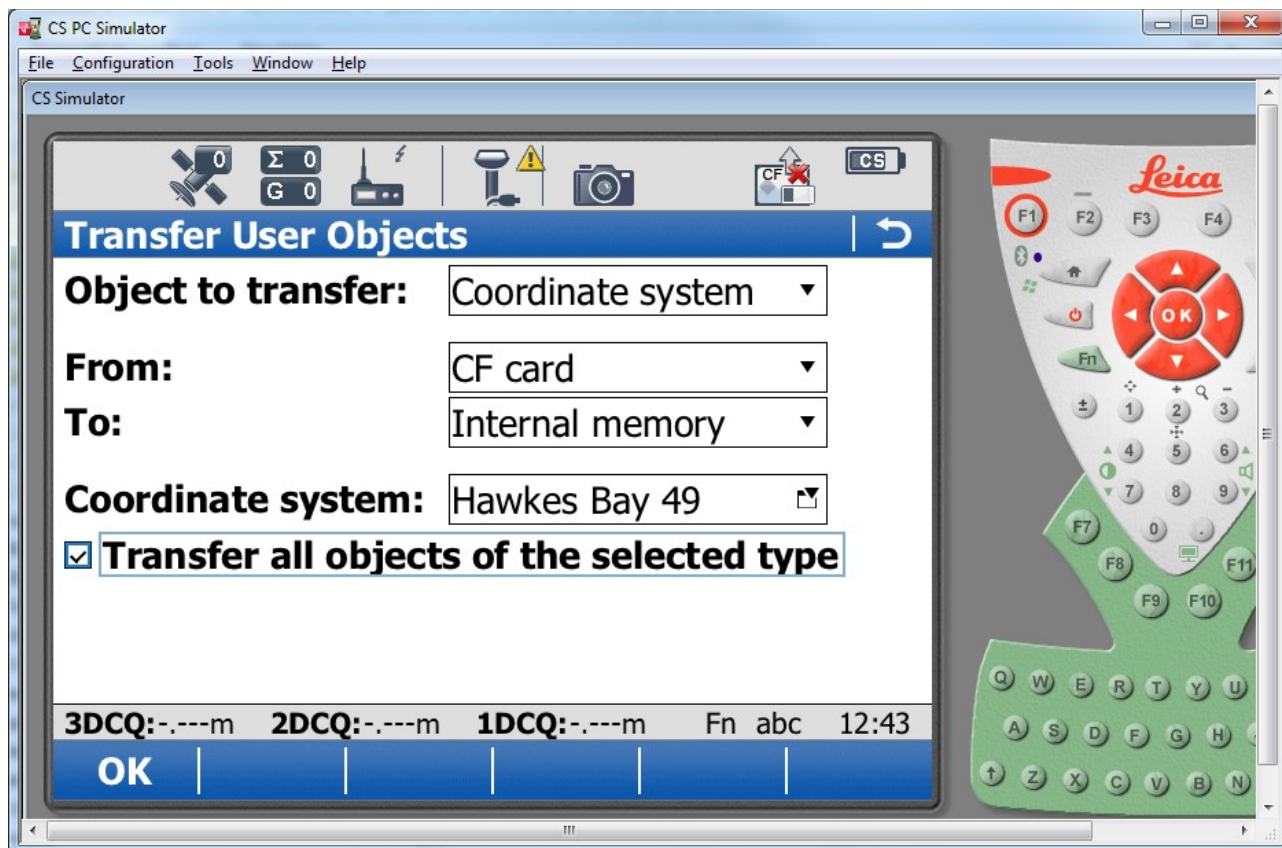
HJAC / 30.05.2012

- The conversion from TRFSET.DAT (Viva, System1200 etc.) to *.lok (iCON, UMC etc.) is done via the common exchange format Hexagon LandXML ("HEXML").
- A TRFSET.DAT file can contain more than 1 coordinate system.
- A *.lok file can only contain 1 coordinate system.
- Therefore the conversion below must be done 1 time for each coordinate system.
- If more than 1 coordinate system needs to be converted, then in most of the steps below it is possible to either select more than one coordinate system or file, or it is possible to repeat the step again with different naming.
- It is also possible to do the conversion from XML to *.lok in iCON Office, but for the special coordinate systems from New Zealand (New Zealand Map Grid), Hungary (EOV???), Romania and Malaysia, it has to be version 2012-771 and higher (this version is not officially released yet).

Use Leica Viva CS Simulator – preferably version 4.01 or higher

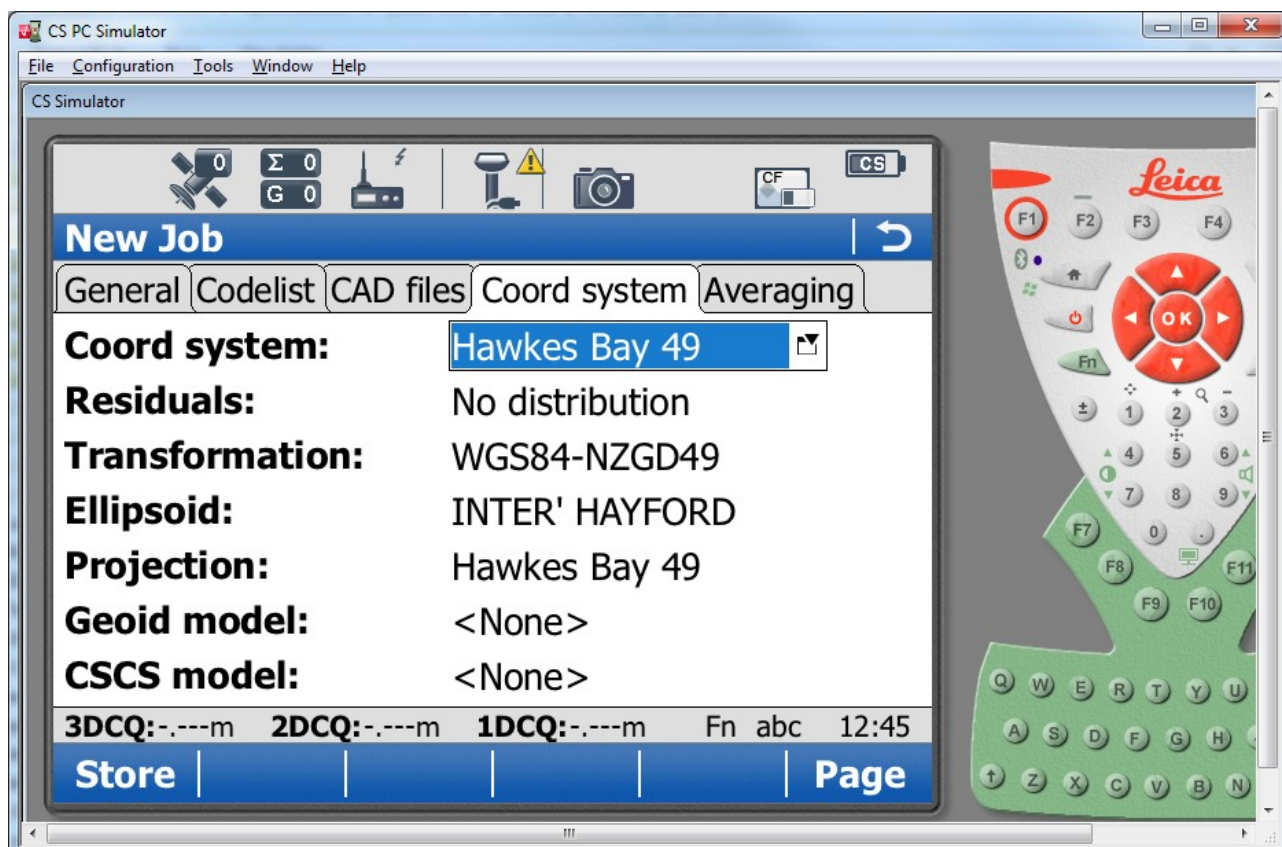
Import the TRFSET.DAT to Viva:

- Make sure that the TRFSET.DAT file is in the correct folder – e.g. C:\Users\XXXX\Documents\System Viva\CS Viva\CF Card\DBX
- From the Main menu, go to 4 (User), 4 (Tools & Utilities), 1 (Transfer User Objects). Set the settings below, and tap OK.

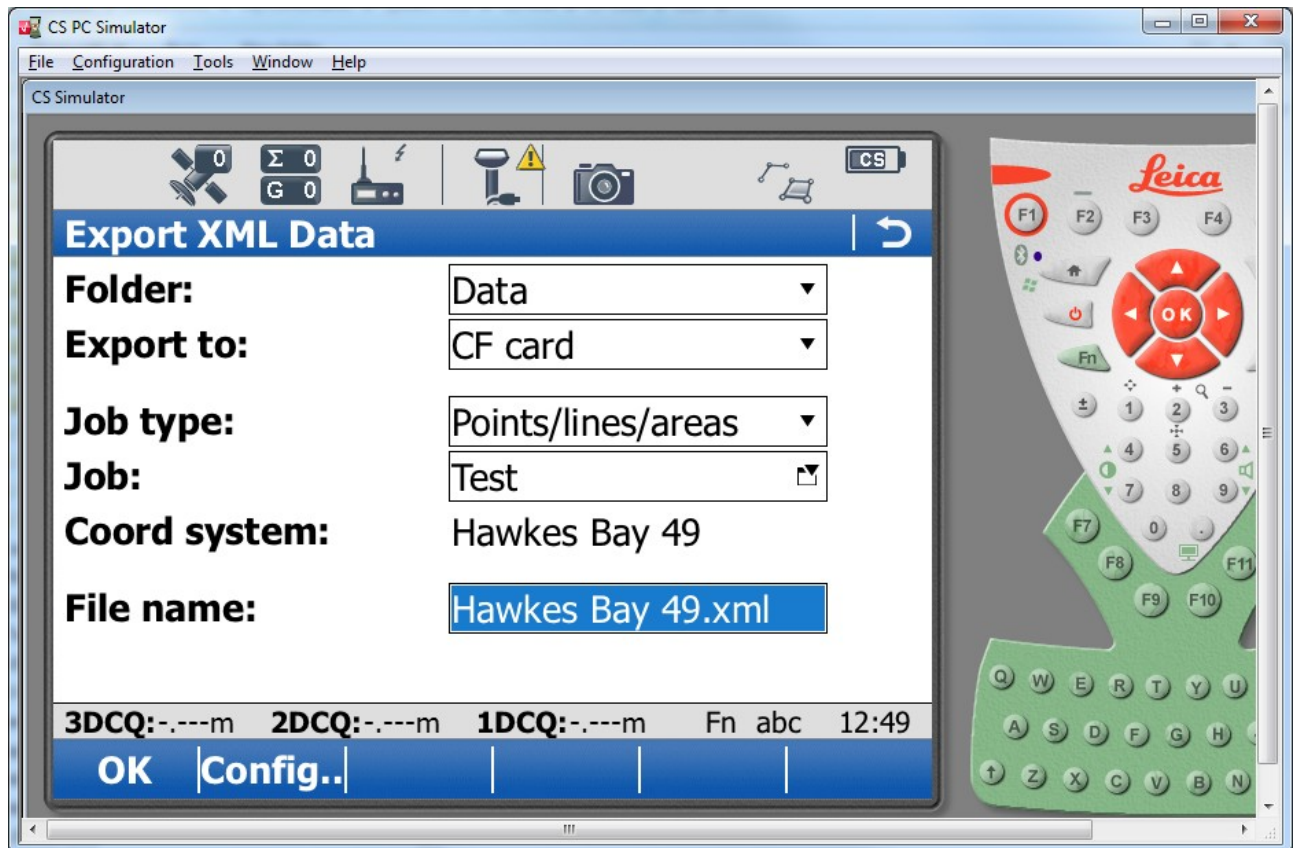


Export a coordinate system to XML

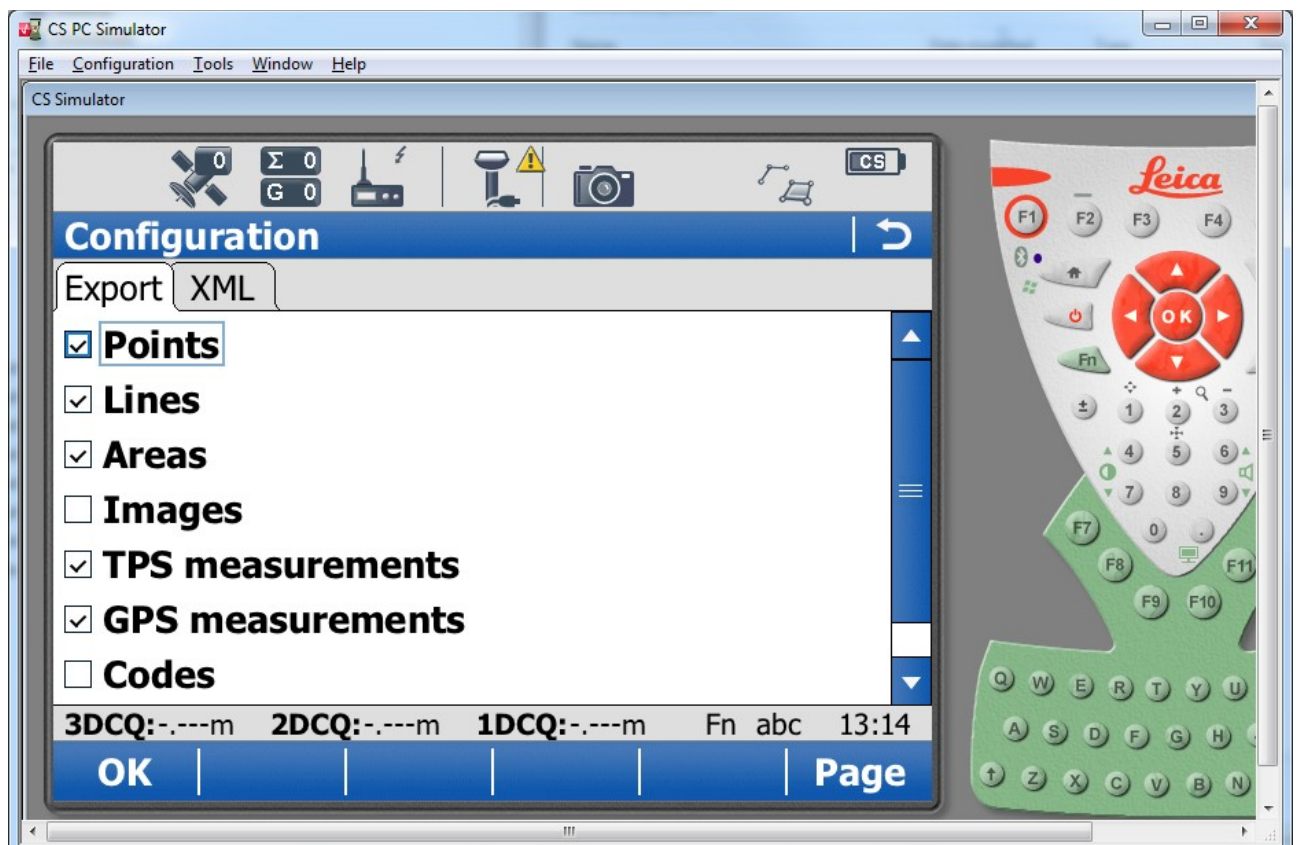
- From the Main menu, go to 2 (Jobs & Data), 1 (New job), give it a name, and from the tab "Coord system" choose the coordinate system that should be exported, and press "Store" (see below).

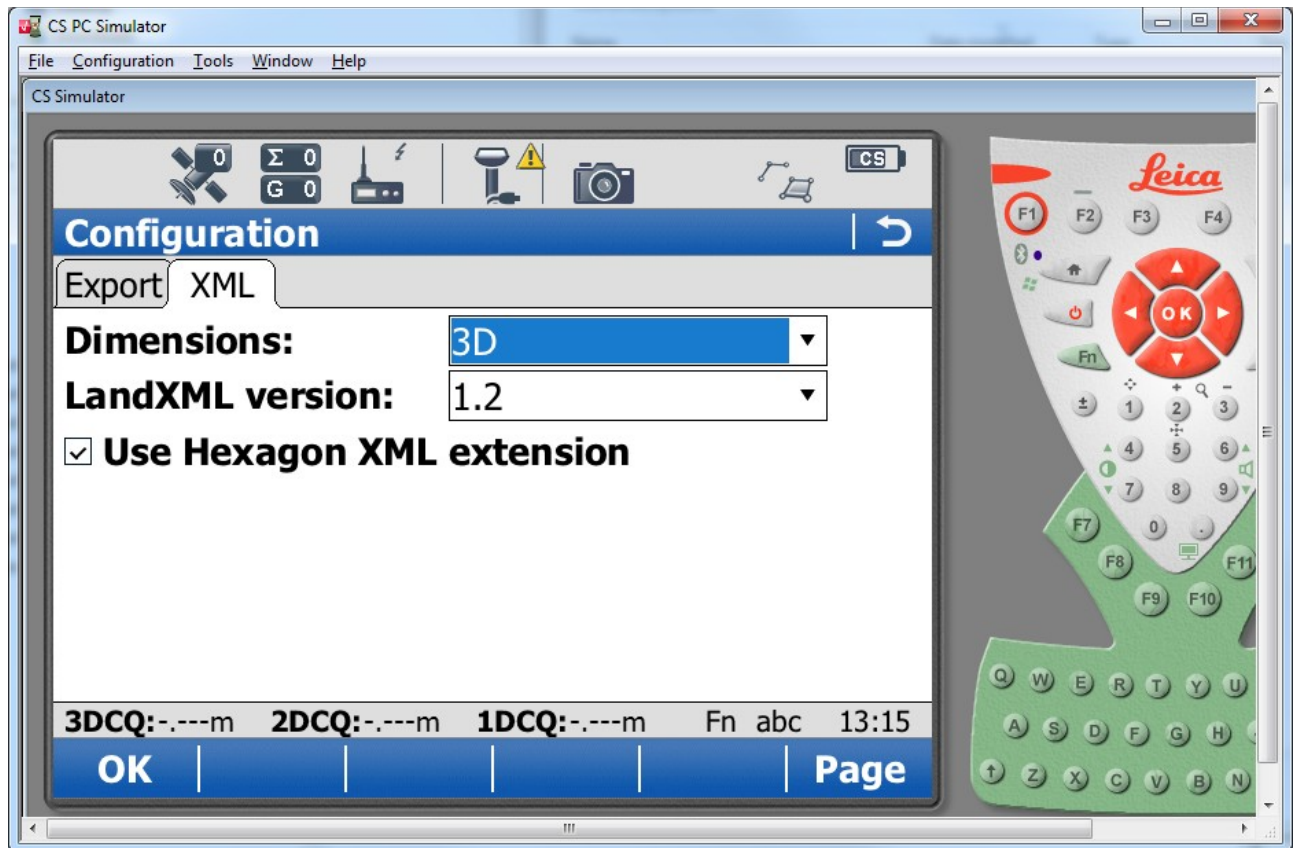


- Then from the Main menu, go to 2 (Jobs & Data), 8 (Export & copy data), 4 (Export XML data). Set the settings below, and give the XML-file the name of the coordinate system.



- Tap on the "Config.." button, and set the settings below.





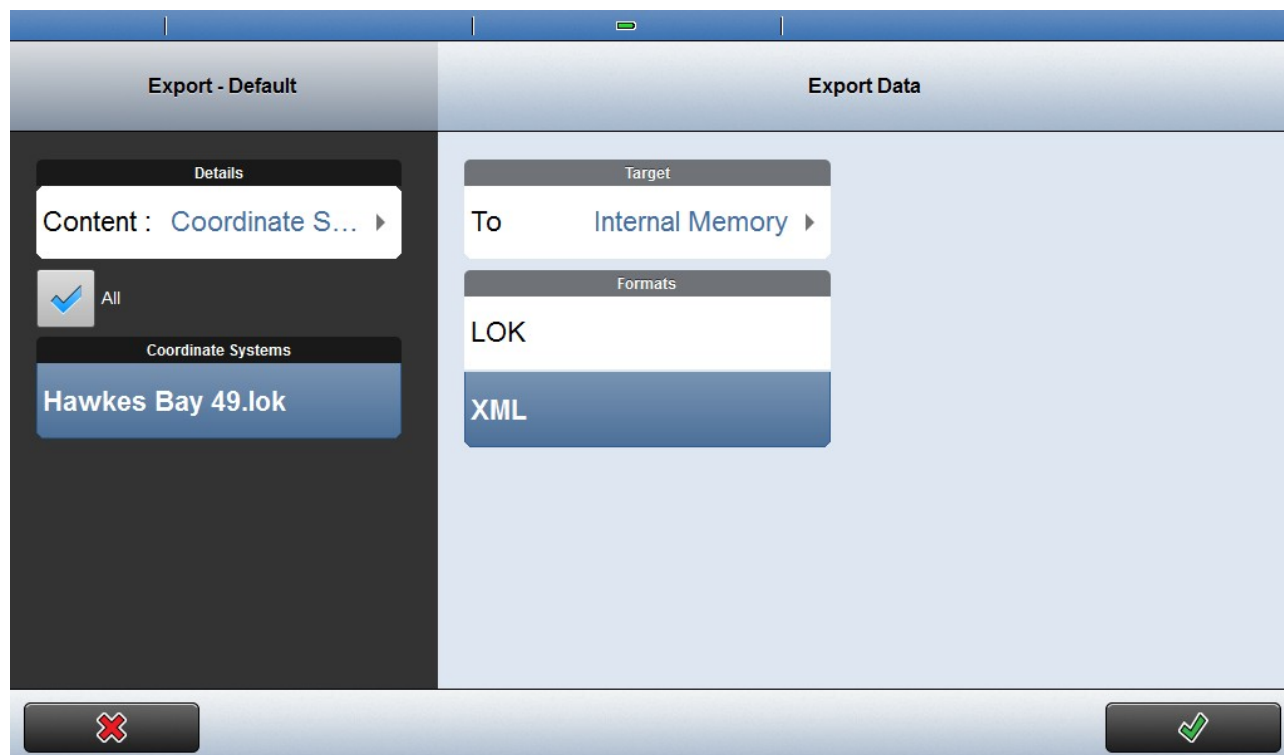
- Tap 2x OK.

Copy the XML-file to the iCON controller (CC50 or CC60)

- Locate the newly created XML-file in the folder C:\Users\XXXX\Documents\System Viva\CS Viva\CF Card\Data, and copy it to a USB-stick (in a folder called "CoordinateSystems") or directly to the iCON controller (to the folder "\Users\XXXX\Documents\Leica Geosystems\iCON\CoordinateSystems").

Import/Export the XML-file to iCON Site/Build

- Start iCON Site/Build.
- Create a project, import the XML file in the "Coordinate Systems" submenu, and finish the Project wizard.
- Go to Export, set the settings below, and tap OK.

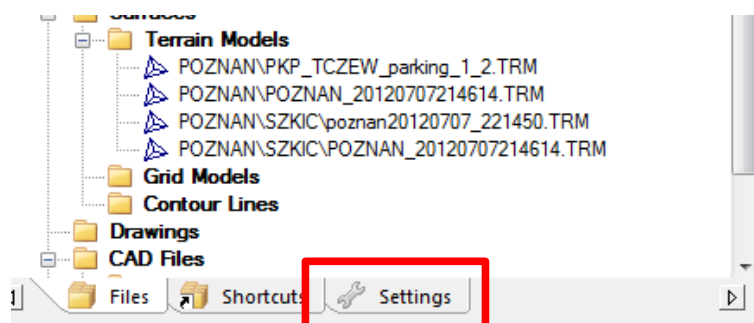


- The converted *.lok file(s) can now be found in the folder “\Users\XXXX\Documents\Leica Geosystems\iCON\CoordinateSystems”.

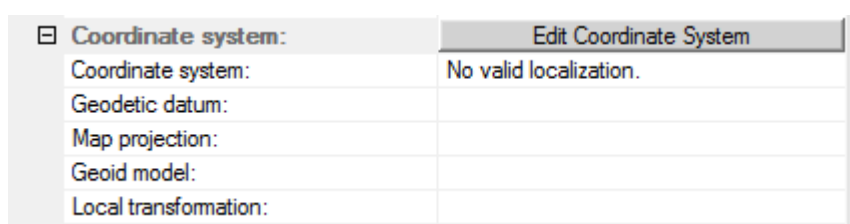
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Import the XML-file to iCON Office

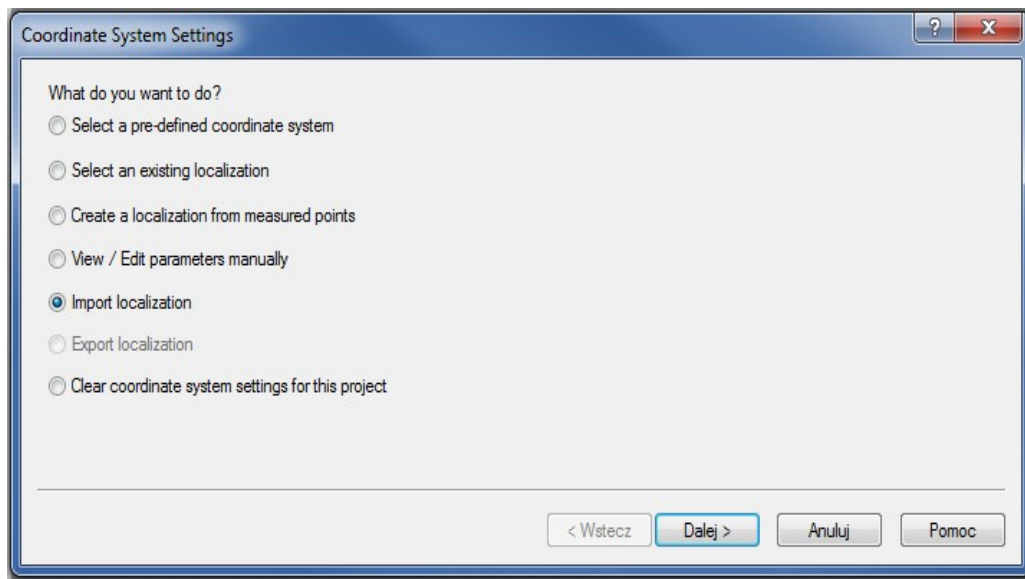
- Start iCON Office
- Create a project
- Go to Tab “Settings”



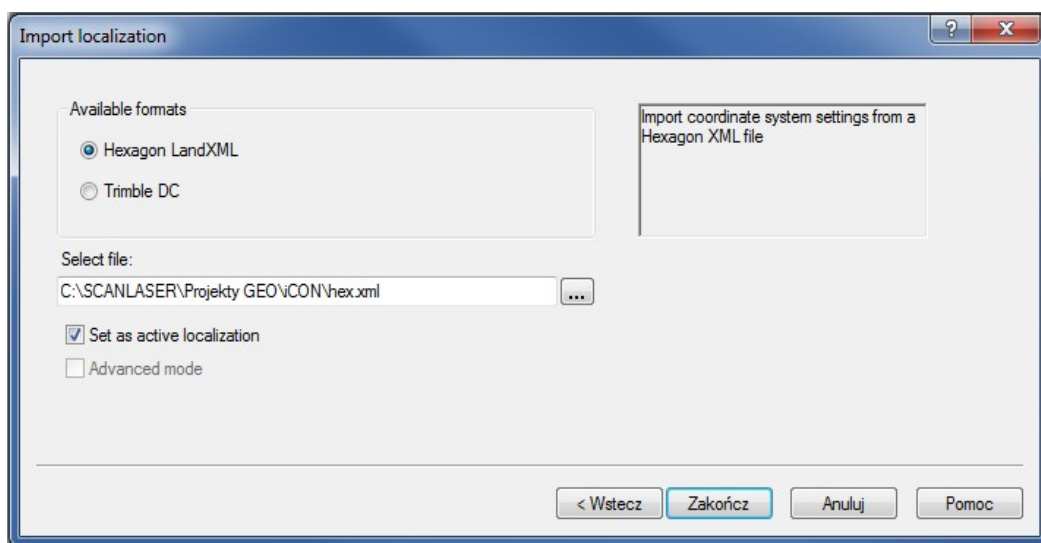
- Go to Coordinate system part and Edit Coordinate system button



- Go to Import localization



- Select Hexagon Land XML format (HeXML) and browse for xml file
You can also set that imported local system as active in current project. If file format is proper, *.lok file with local system imported will be created.



Finish

☒ Coordinate system:	Edit Coordinate System
Coordinate system:	2000/5
Geodetic datum:	
Map projection:	Gauss-Kruger2000/5
Geoid model:	ruda50.grd
Local transformation:	

Coordinate system settings from imported lok file.