Leica Infinity

Training materials

How to send and receive data to and from the field-Working with Leica Exchange

Version 1.0
English

- when it has to be right

Leica Geosystems

Introduction

This is a step-by-step tutorial in which you learn how to easily use Leica Exchange to send and receive data between field and office.

In this tutorial, a newly designed building will be imported to Infinity with dxf file. Points to be staked out will be extracted and sent to the field using Leica Exchange. After the points are staked, the job will be sent back to Infinity for Quality Check.

The functionality discussed in this guide requires the Basic license.

The data from the following folders will be used in this tutorial:

- Data\New building.dxf- containing newly designed building
- Data\trefset.dat- contains the coordinate system file
- Data\ stake-building_0730_1112_090026 contains the GNSS staked job

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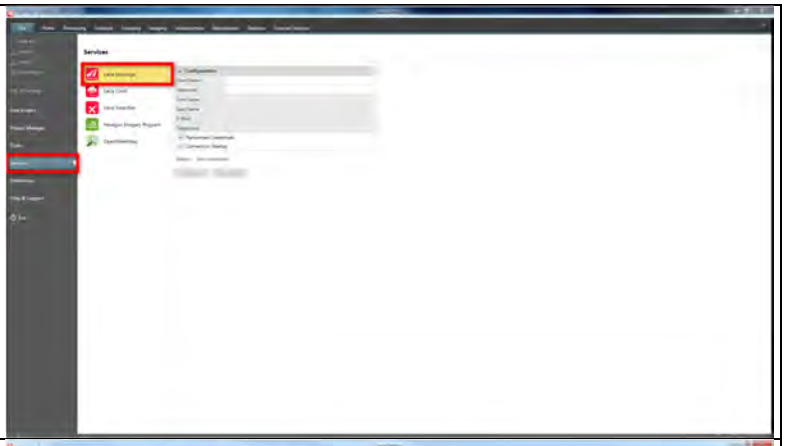
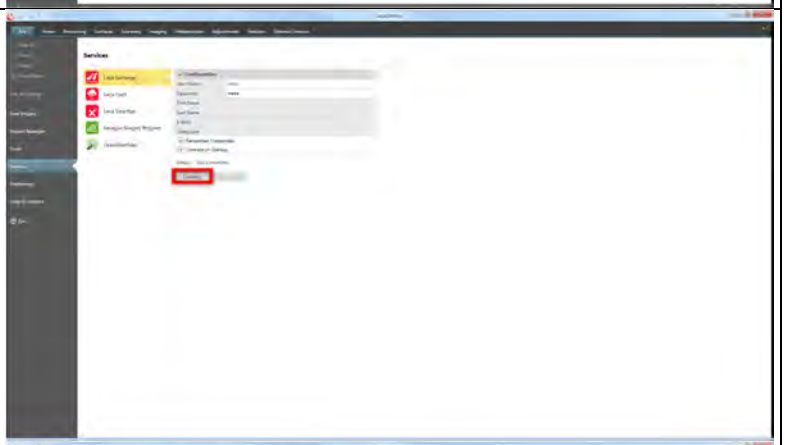
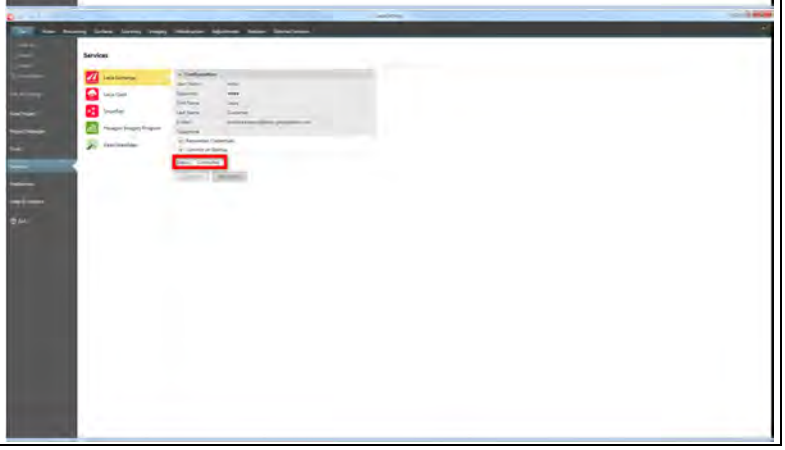
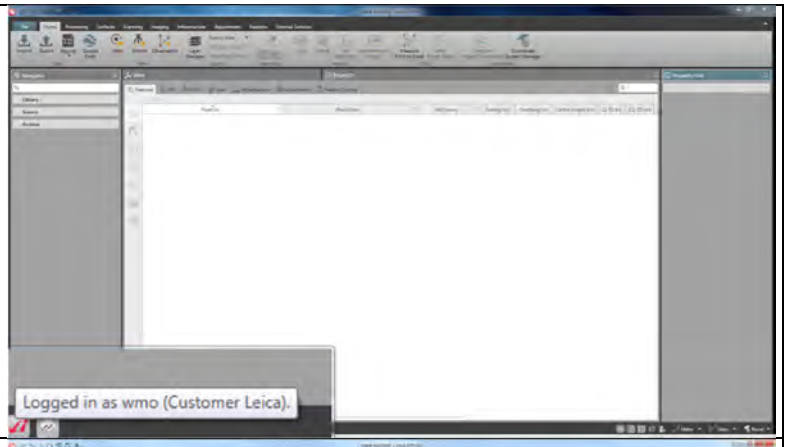
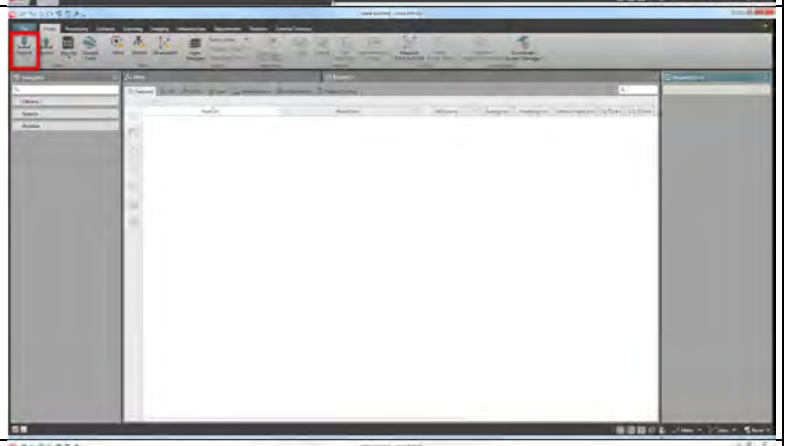
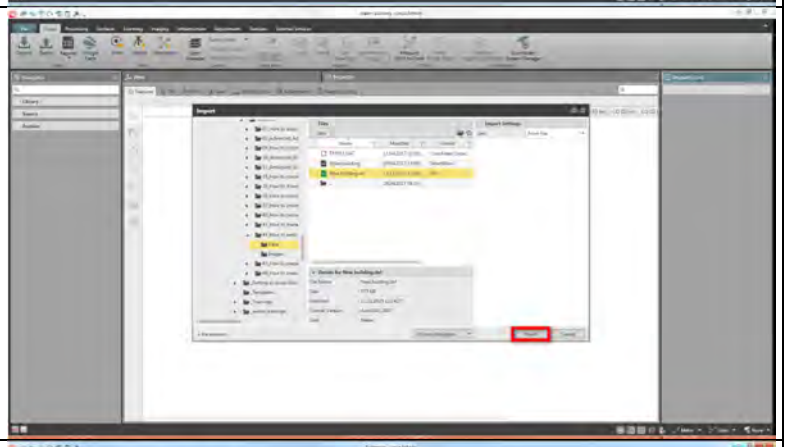
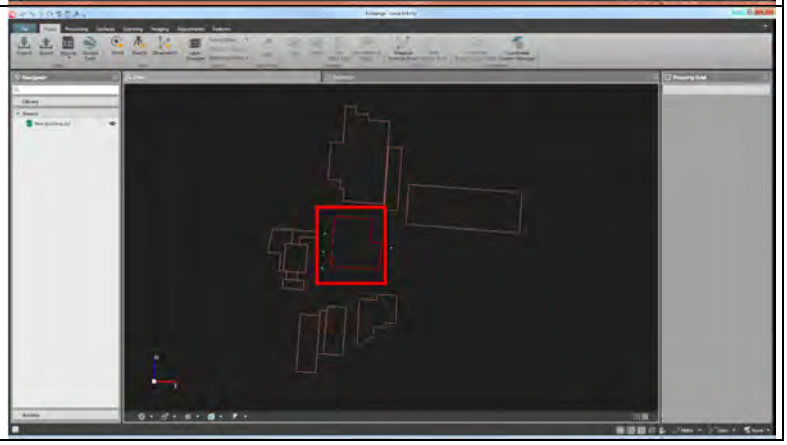
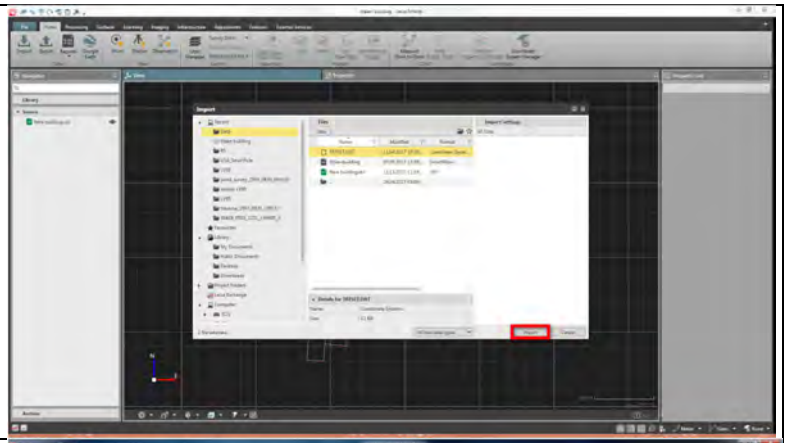
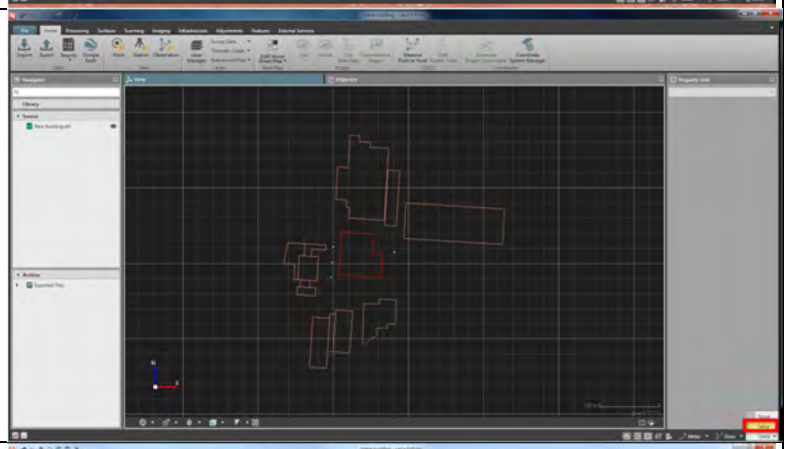
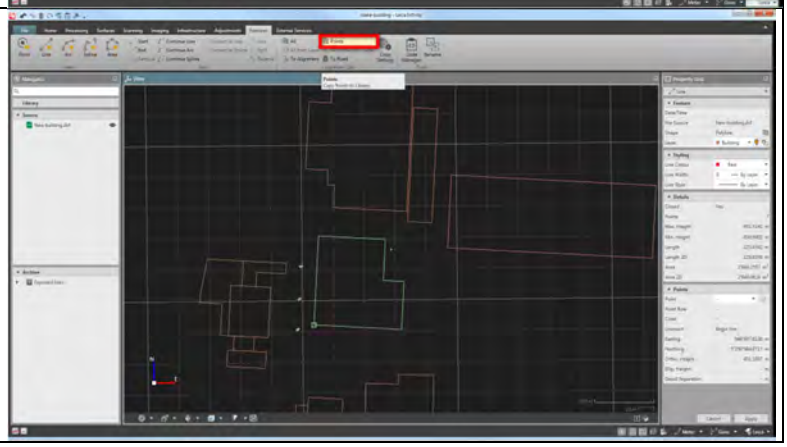
1. Log in to Leica Exchange

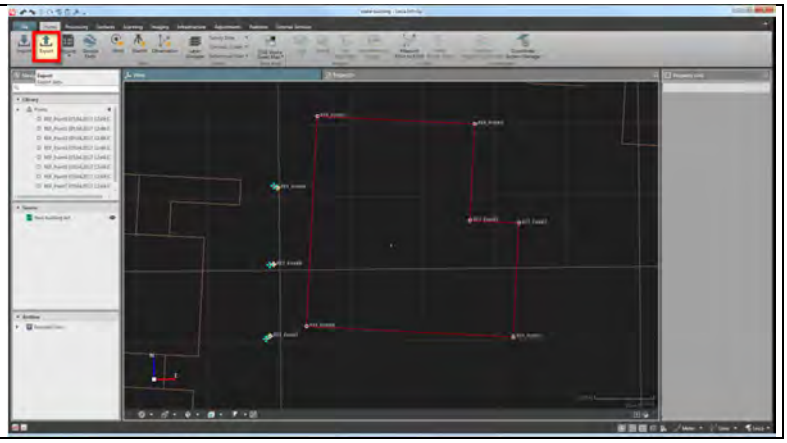
1.1	To access the Leica Exchange Service, select **File→Services→Leica Exchange**.	
1.2	To connect to the service, provide the user name and password as well and select **Connect**. ☞ The proxy settings (if necessary) can be defined in **Preferences.** • The status will change to **Connected** and additional Leica Exchange user Info will be shown.	 

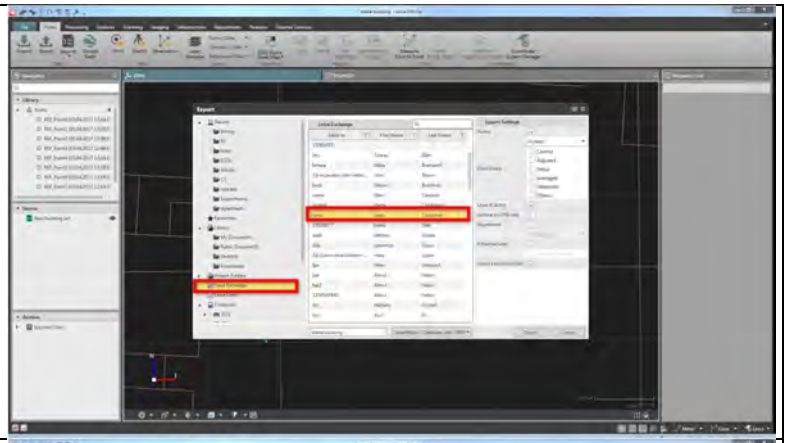
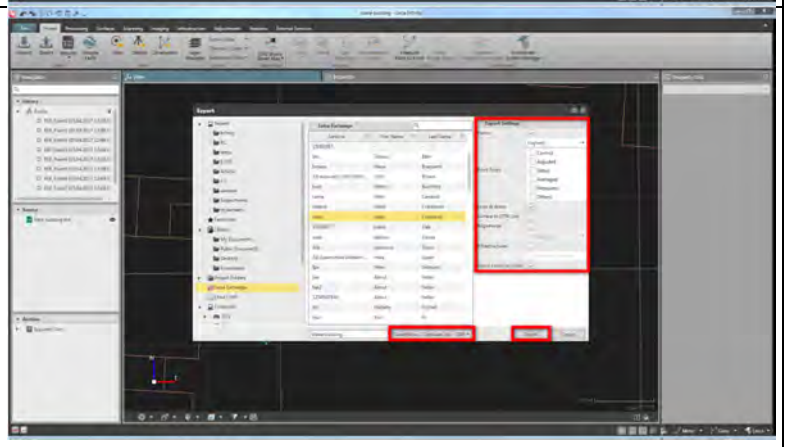
2. Import Data and extract from CAD

2.1	Create a new project, which will be used to import the data. ☞ The current state of the Leica Exchange service can be seen at the lower left in the status bar.	
2.2	To import the data, select **Import** from the **Home** ribbon bar.	
2.3	To import the dxf file, in the Import dialog navigate to directory Data, highlight the file "New building.dxf" and select **Import**.	
2.4	Switch to the **View** tab of the data **Inspector** to view the imported dxf. ☞ CAD data are imported as reference and the Layers can be managed from ``Reference Layers``.	

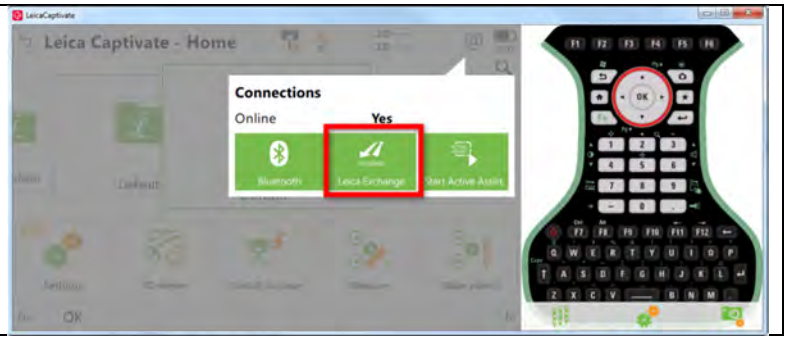
2.5	To import the coordinate system, select **Import** from the ribbon bar and in the Import dialog navigate to directory Data, select file **TRFSET.DAT** and select **Import**.	
2.6	Assign the imported Coordinate System to the project by clicking on the icon None on the right side of the Status bar, then select **Leica**.	
2.7	To use the data from CAD, you have to copy it to the Library. Highlight the newly designed building as well as the 3 lamp posts and select **All** from the **Features** ribbon bar. ☞ Copy Settings can be set in the backstage.	

3. Send the points for stakeout

3.1	To send the data to the field sensor using Leica Exchange, select **Export** from the **Home** ribbon bar.	

3.2	In the Export dialog, highlight **Leica Exchange** and select the user you want to send the data to. ☞ You can send the data to many users in one go.	
3.3	Define the data format: Smartworx/Captivate job, leave the default export settings and select the **Export** button. • The data are now sent to the user wmo and can be accessed from the field controller. ☞ When exporting to Smartworx/Captivate job, the Coordinate System is exported automatically.	

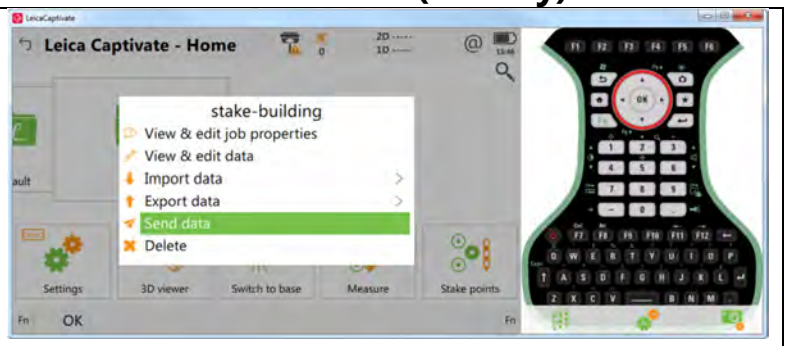
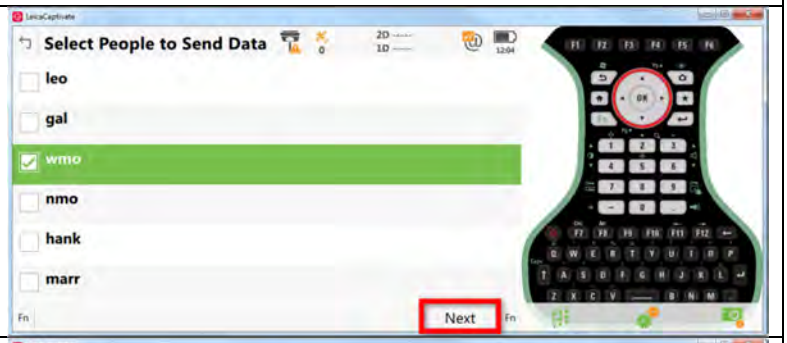
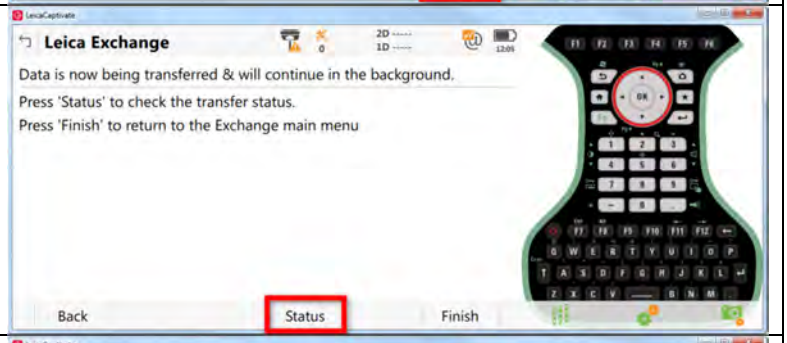
4. Transfer the data to the CS controller

4.1	To connect to Leica Exchange, go to the **Home** Screen, tap the Internet icon and select **Leica Exchange**. ☞ CS has to be connected to the Internet.	

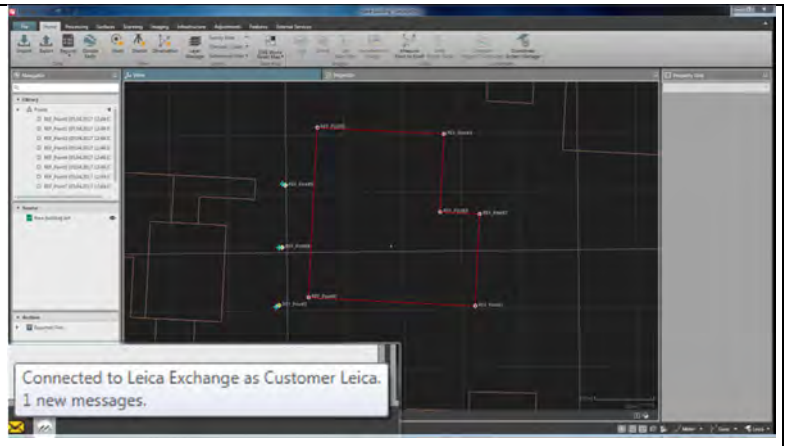
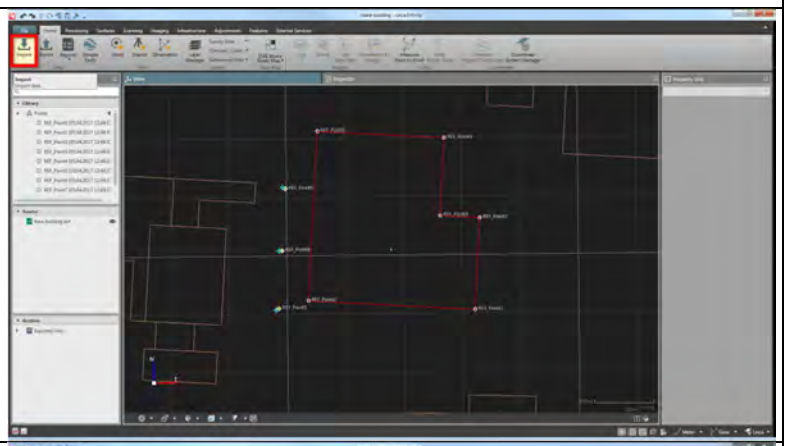
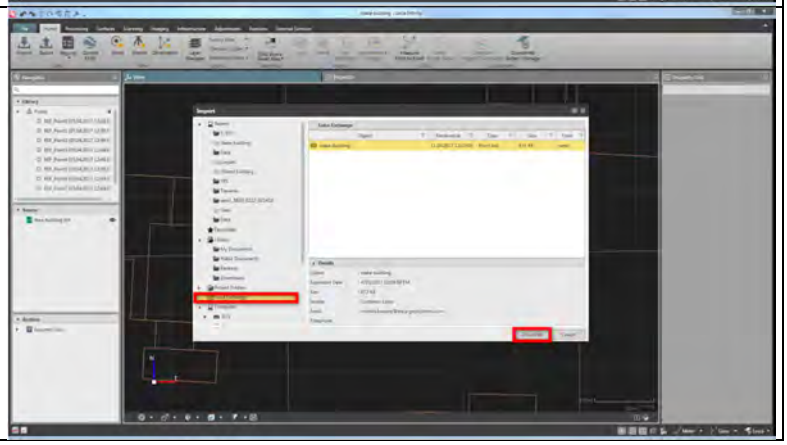
4.2	Log in with your user name and password. Select **OK**.	
4.3	Tap **Get Data.**	
4.4	Select the job you want to import and tap **Next.**	
4.5	Data is now being transferred. To check the status, select **Status.**	

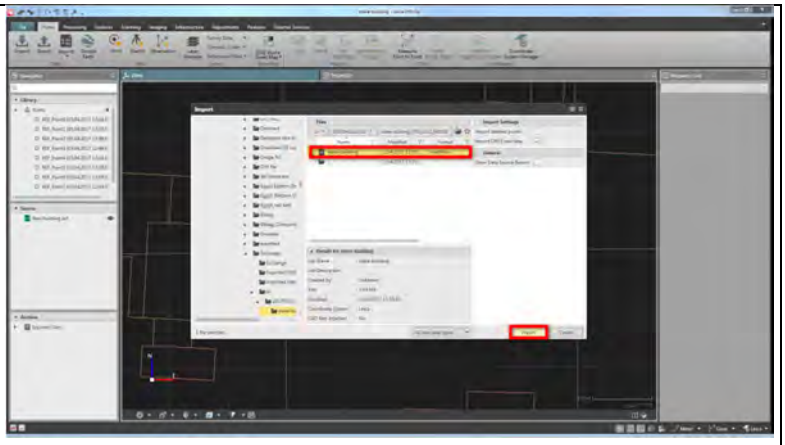
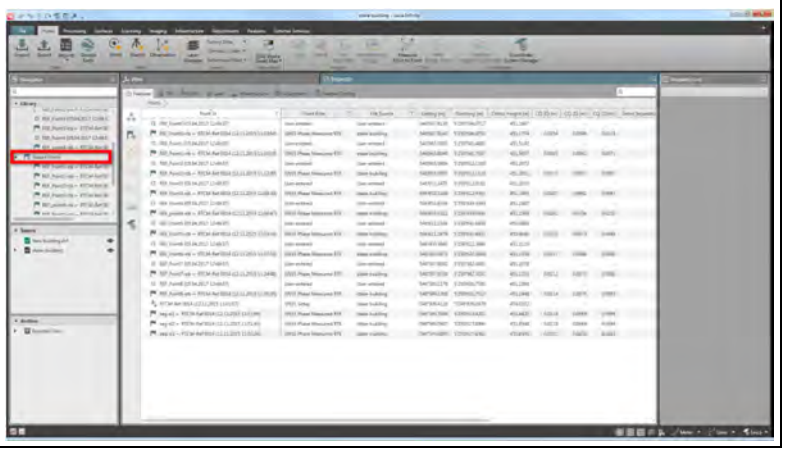
4.6	To verify that the job with points to be staked has already been imported, go back to the **Home** Screen.	

5. Stake out and send the job from the field to the office (Infinity)

5.1	Let`s assume you have done your stake out in the stake- building job. In order to send the data back to the office select the job and then **Send Data.**	
5.2	Select people to send the data to and press **Next.** ☞ You can send the data to many users in one go.	
5.3	Data is being transferred. To check the status, select **Status.**	
5.4	Here you see the transfer status in %. The orange arrow indicates the data transfer.	

6. Get the staked data back in the office (Infinity)

6.1	To import the staked data in the existing project, start **Infinity** and open existing project "stake-building". ☞ At the lower left in the status bar, you will see that there is one new message in the Leica Exchange service.	
6.2	To import the staked data, select **Import** from the **Home** ribbon bar.	
6.3	In the Navigation Tree, select the **Leica Exchange**. • The inbox of the Exchange user is shown. Highlight the messages you wish to import and select **Download**.	

6.4	The contents of the selected message are shown (ie the stakeout job). To import it to the current project, highlight the job and select **Import**. • The job has been imported. You can now check the quality of staked points.	 

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