X-PAD Ultimate – Learn how to use the SP features

Service Pack #2 2023

Autumn 2023

GEOMAX

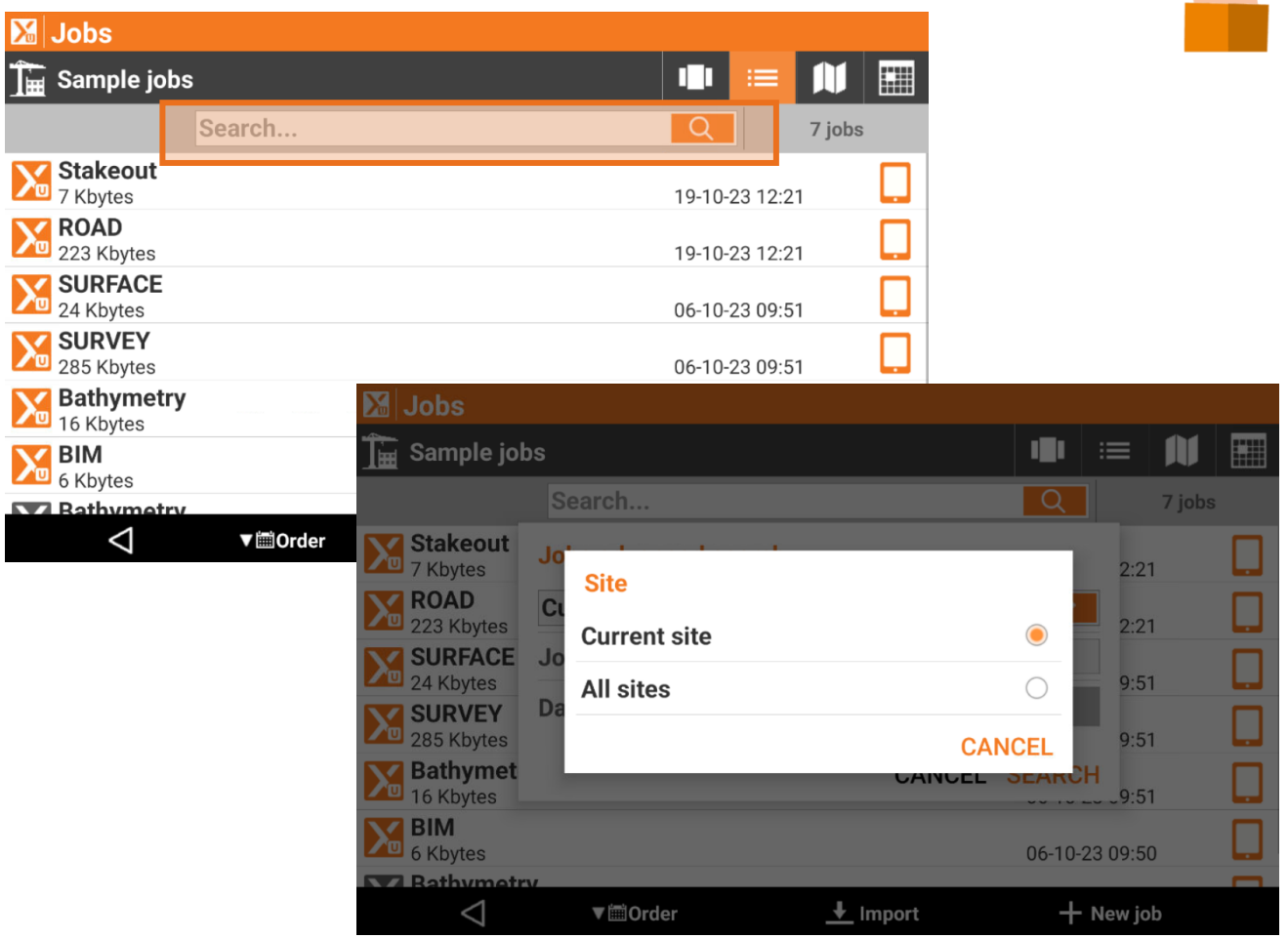
Learn how to use the SP features

- This presentation is intended to guide the user to use the main functions introduced with the new X-PAD Ultimate Service Pack
- This presentation does not cover all news in the Service Pack
- For more information on all updates please refer to the X-PAD Ultimate presentation and to release notes

MISCELLANEOUS

Jobs – Advanced search

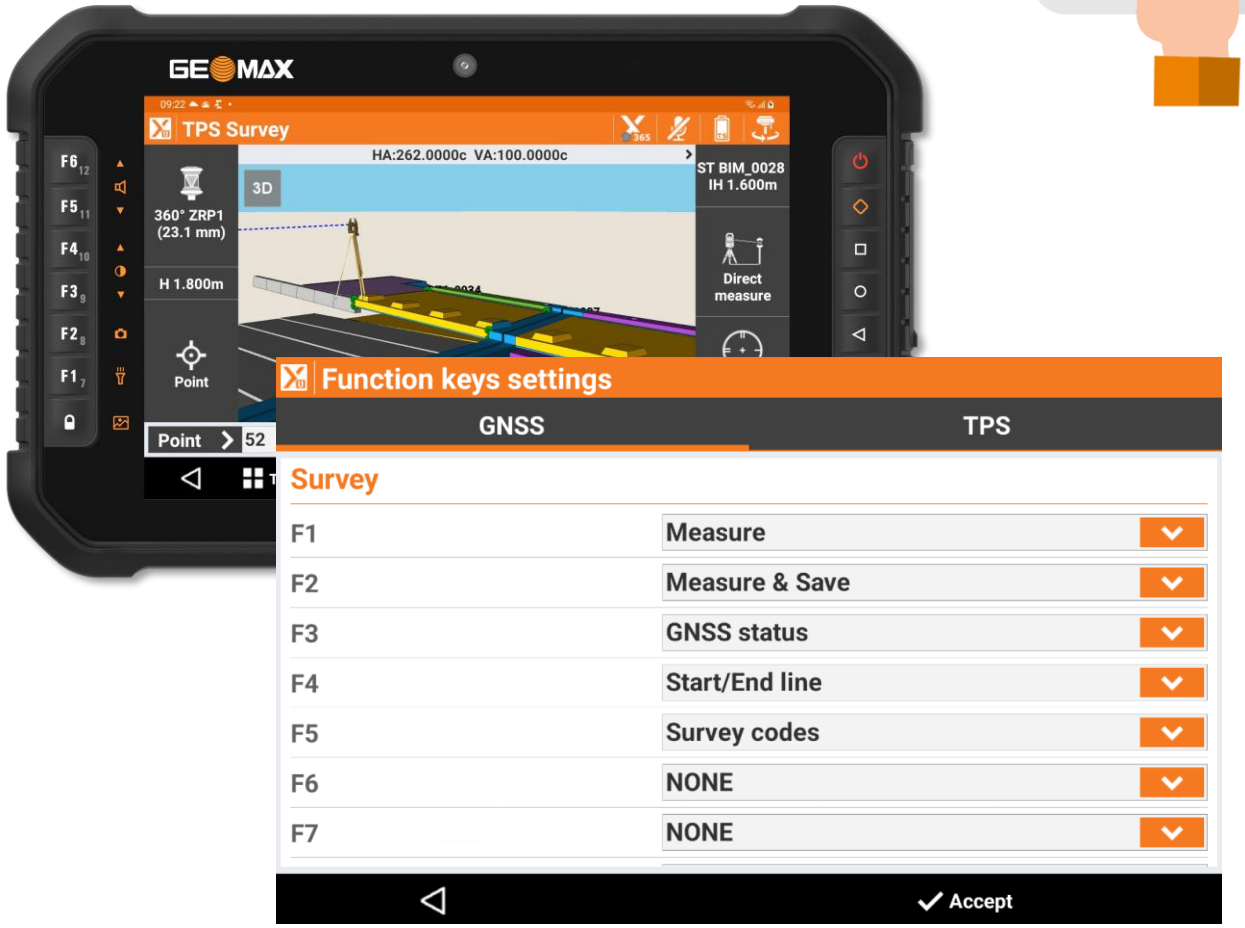
1. Open a site
2. Type in the top bar the job name to search it in the site
3. Click on the icon to open the advanced search. Advanced search allows also to search jobs in all sites and in a specific time interval



Zenius08 – Function keys

New tablet Zenius08 has 12 configurable buttons.

1. You can assign the function in Settings -> Function keys
2. Functions can be separately assigned for GNSS and TPS, in survey or stakeout



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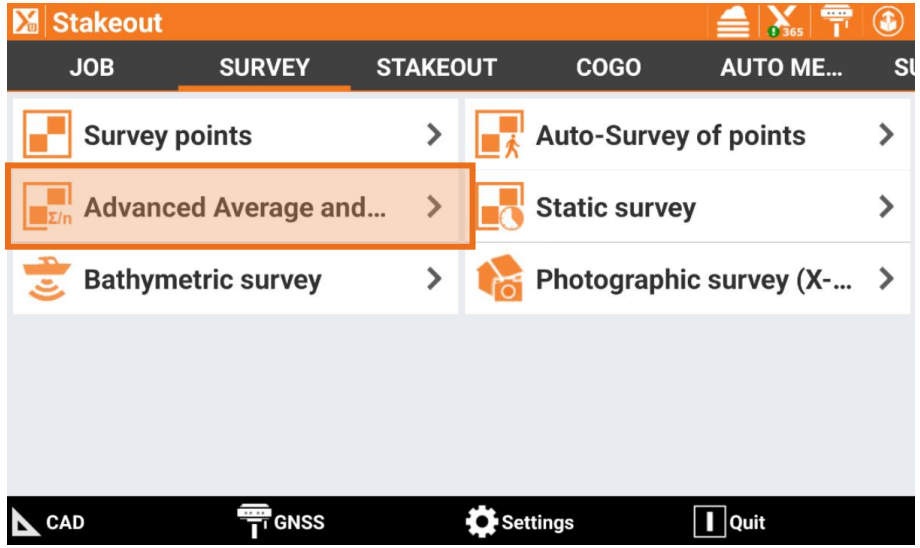
GNSS

GNSS averaging & analysis

This new function allows to perform redundancy measurements with possibility to verify all data in graphical and analytical form, in order to ensure the highest accuracy to specific measurements.

1. Open the function from SURVEY page
2. Configure the requested parameters



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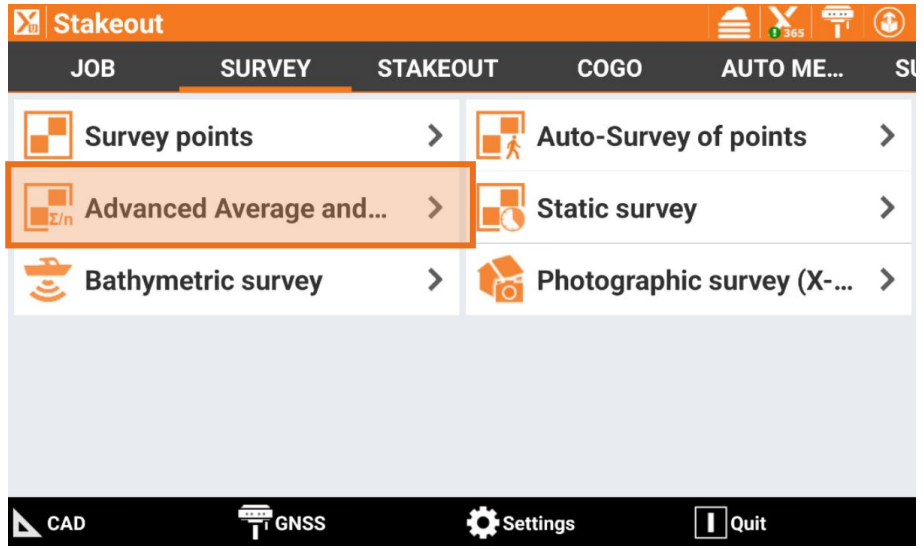
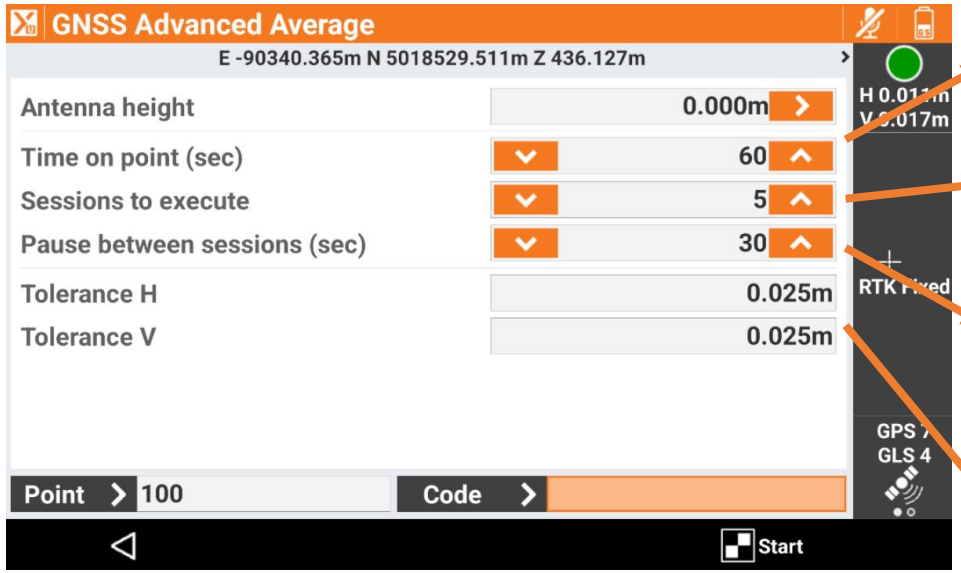




Occupation on the point in each session

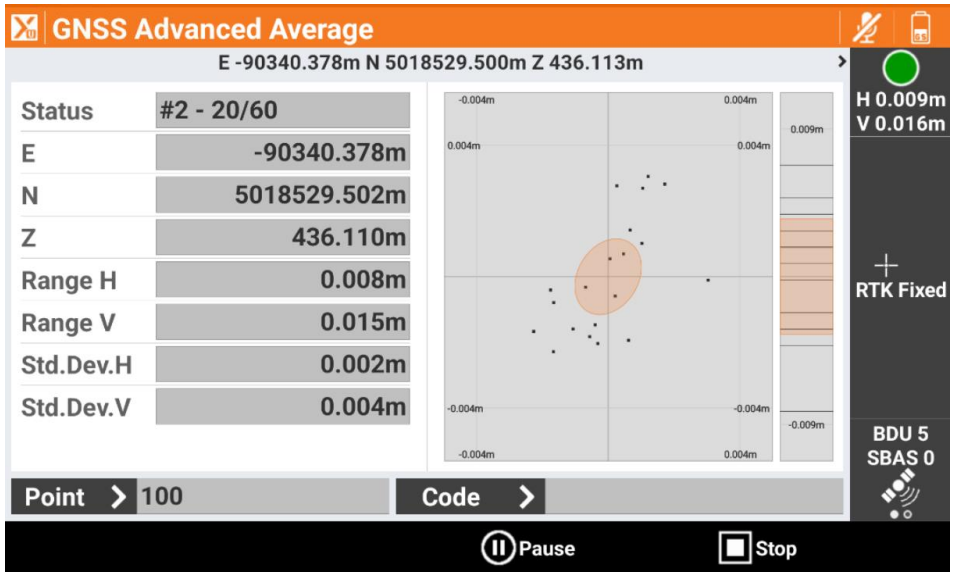
Nr of sessions

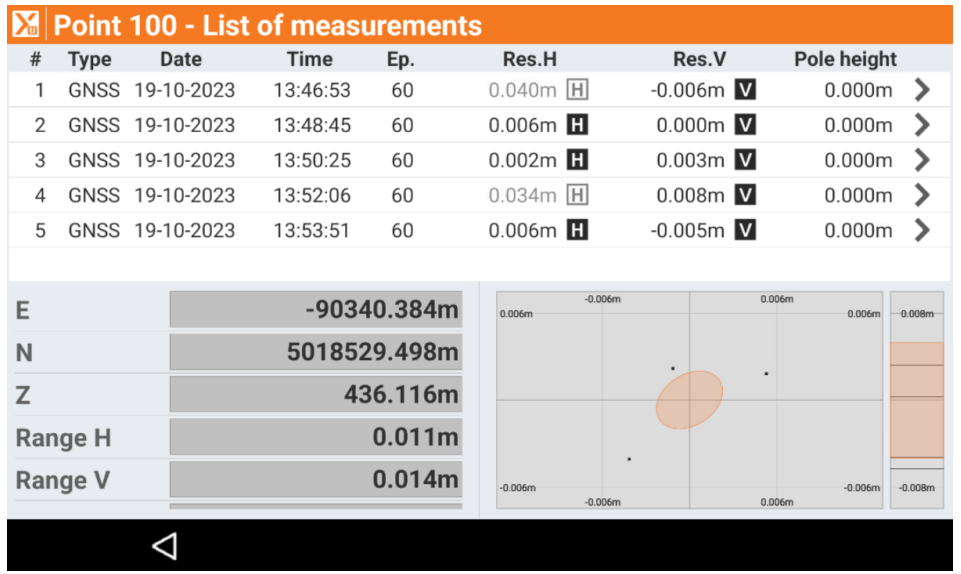
Time between the sessions, RTK will be reinicialized

Tolerance for outliers

GNSS averaging & analysis

3. Start the session. RTK is reinizialized between each session
4. You can check in real time the measured data during each measurement session
5. At the end of the measurements sessions, you can select which session to use, and save the final point coordinate

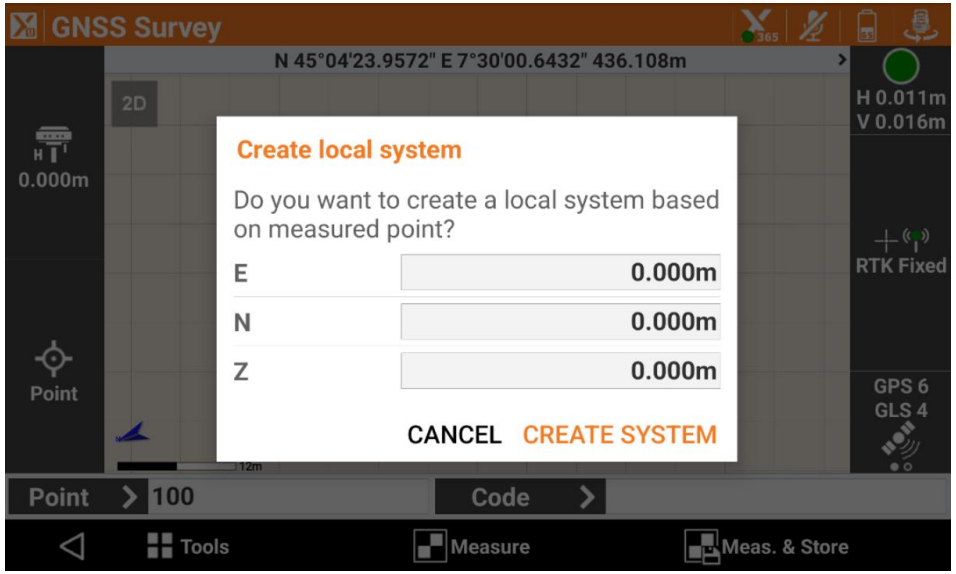




Local system - origin

To create a GNSS local system, with an origin different than 0;0

1. Start a job without a cartographic system or any GNSS localization
2. Measure the first GNSS point
3. X-PAD will ask you to create a local system, entering the origin



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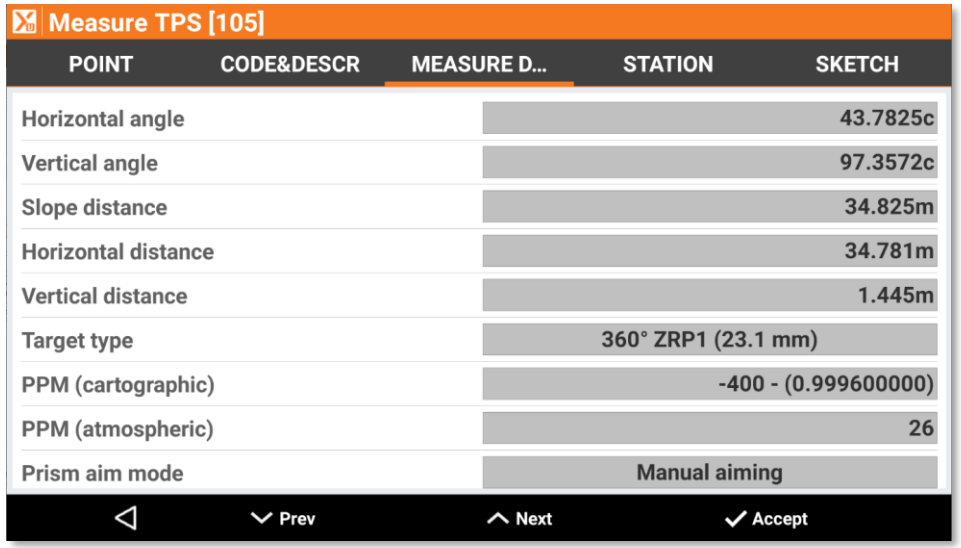
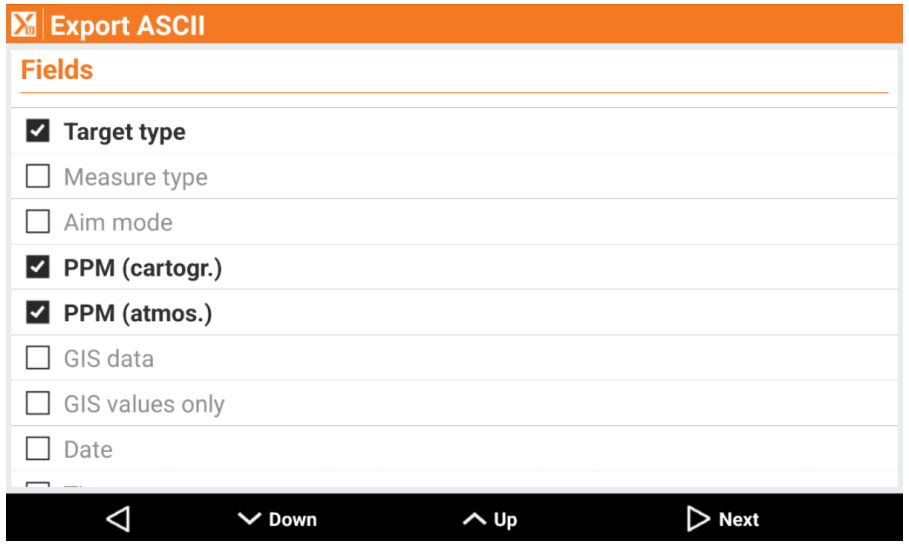
TPS

Armospheric corrections, PPM and other

To clarify the used PPM, now atmospheric and geometric PPM are separated and visible for each measurement done

1. Open Points/Measurements/Codes page. Open Measurements
2. Select a measurement done, and in the Measure Detail page you can see the values of geometric PPM and atmospheric PPM for the measurement
3. Also in reports and export, the values are now separated and clarified





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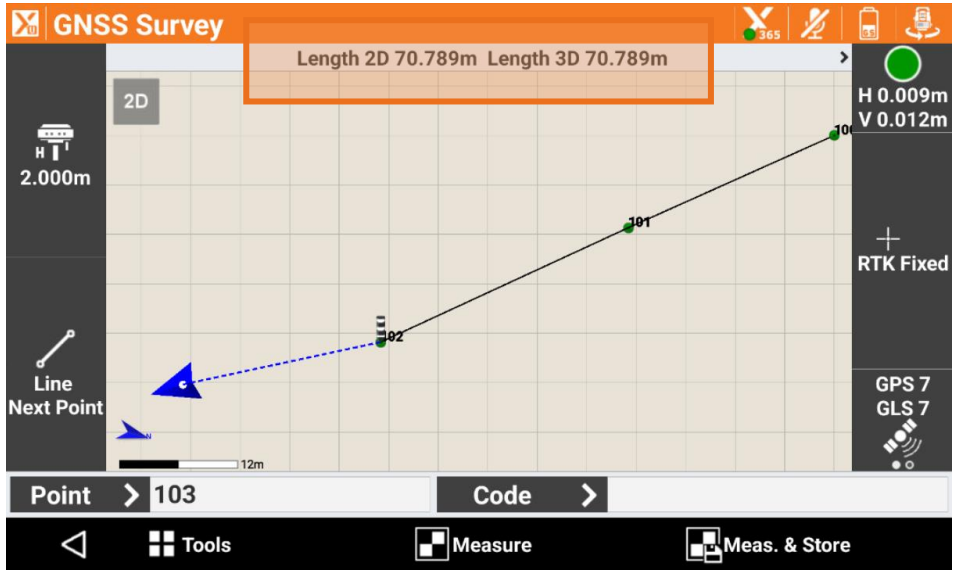
SURVEY

Survey wheel

1. With TPS or GNSS open the Survey function
2. Select Line as drawing type
3. While drawing the line click on top bar to visualize the line length in real time



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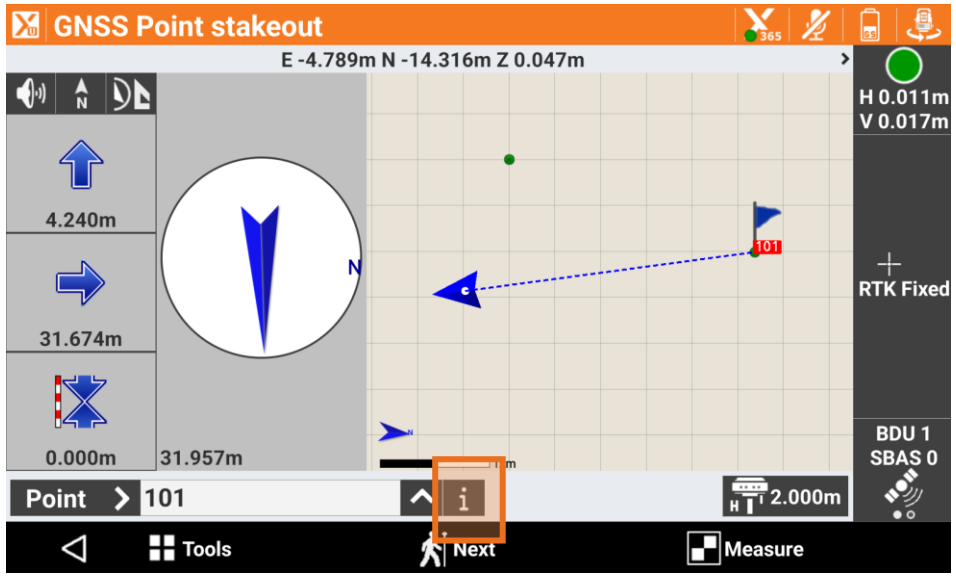
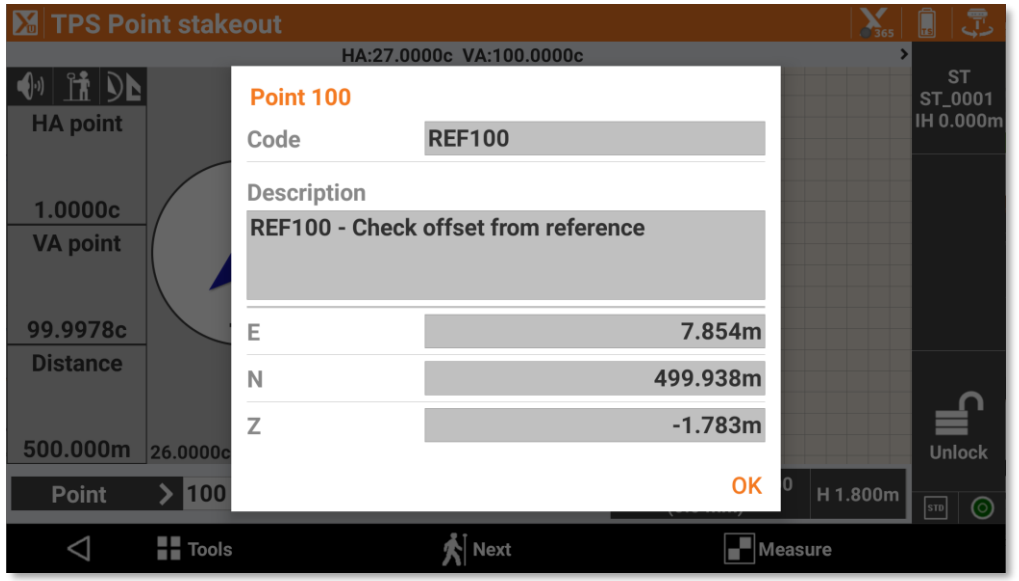
STAKEOUT

Code & description

To view additional information for the points to stakeout

1. Open stakeout application
2. Press on i button to check the point code and description





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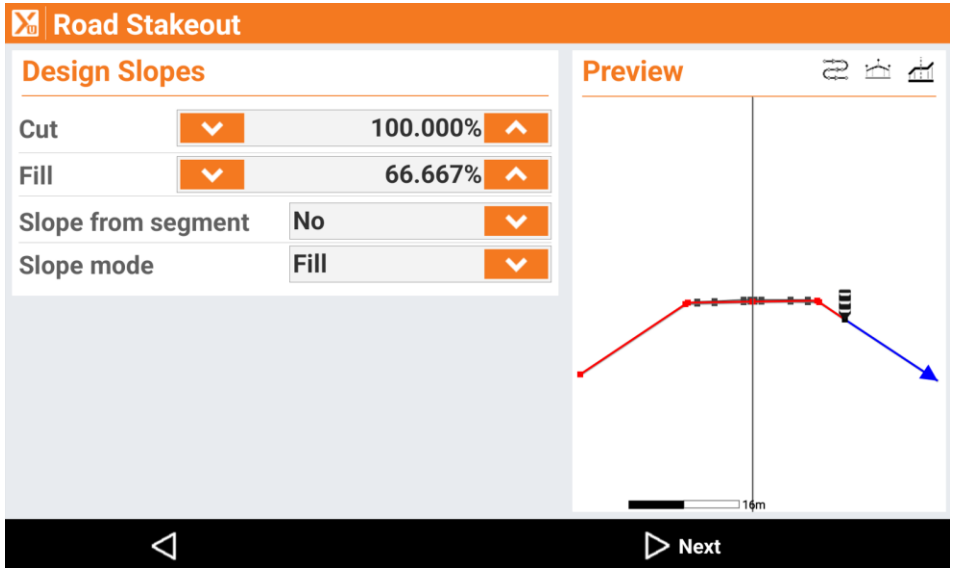
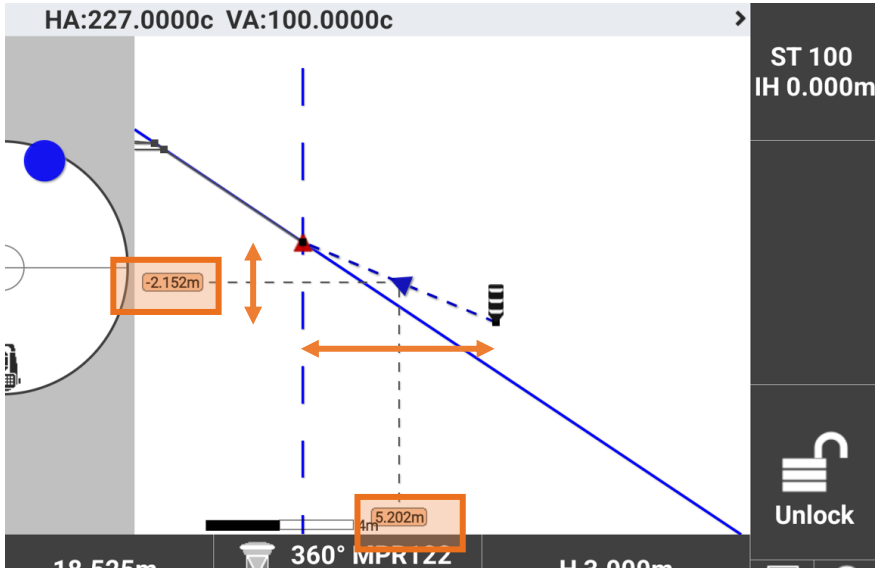
ROAD

External reference: LandXML

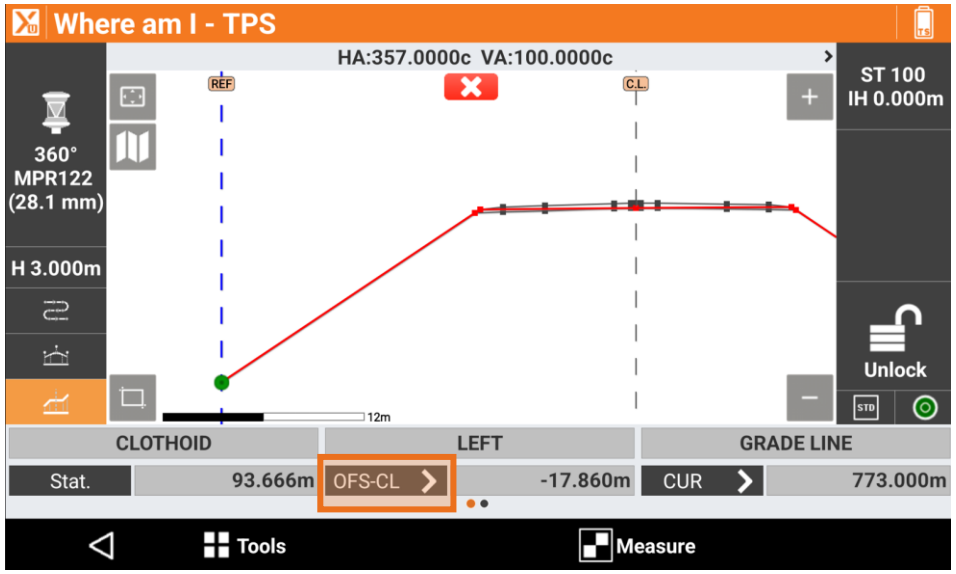
1. Open the function Sideslope stakeout in Roads application
2. Define the slope information
3. X-PAD provides horizontal and vertical distance to hince point as additional info

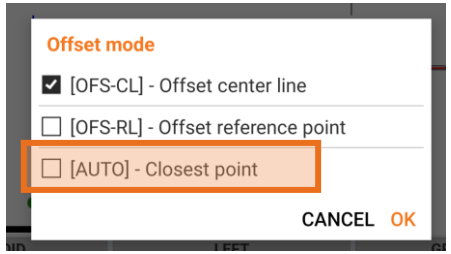


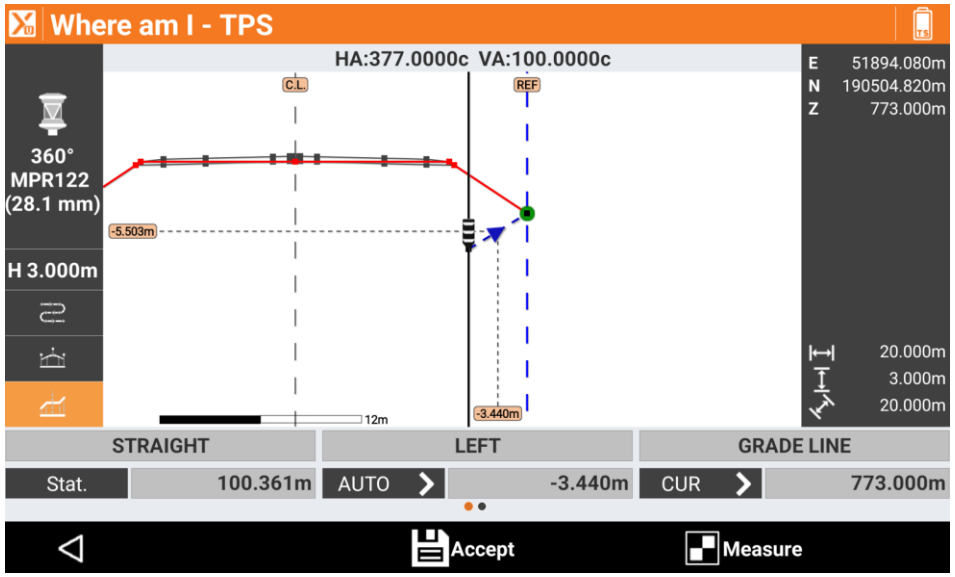


External reference: LandXML

1. Open the Where am I function in Road application
2. Click on Offset mode to change offset mode to AUTO
3. Measure with instrument, and offset information are automatically referred to the closest reference point







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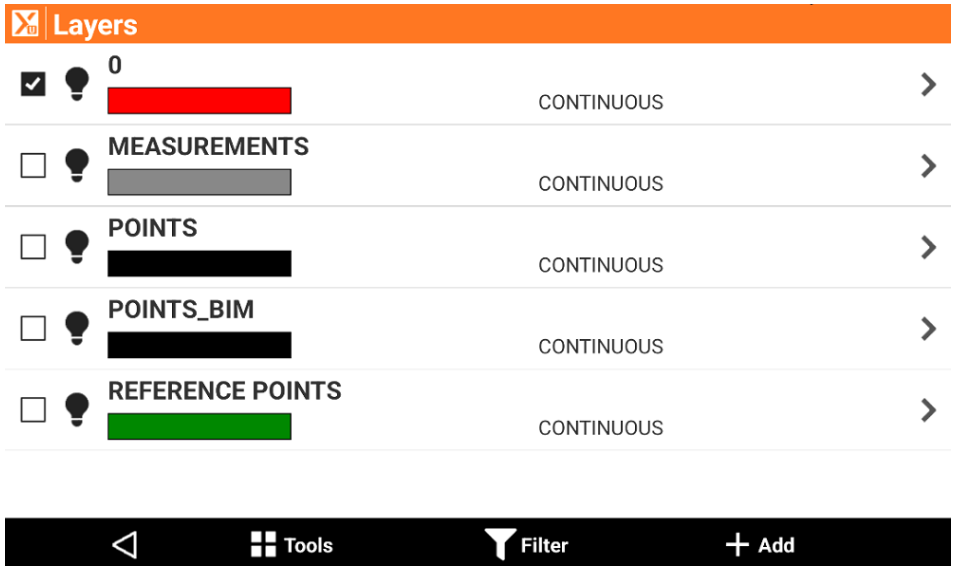
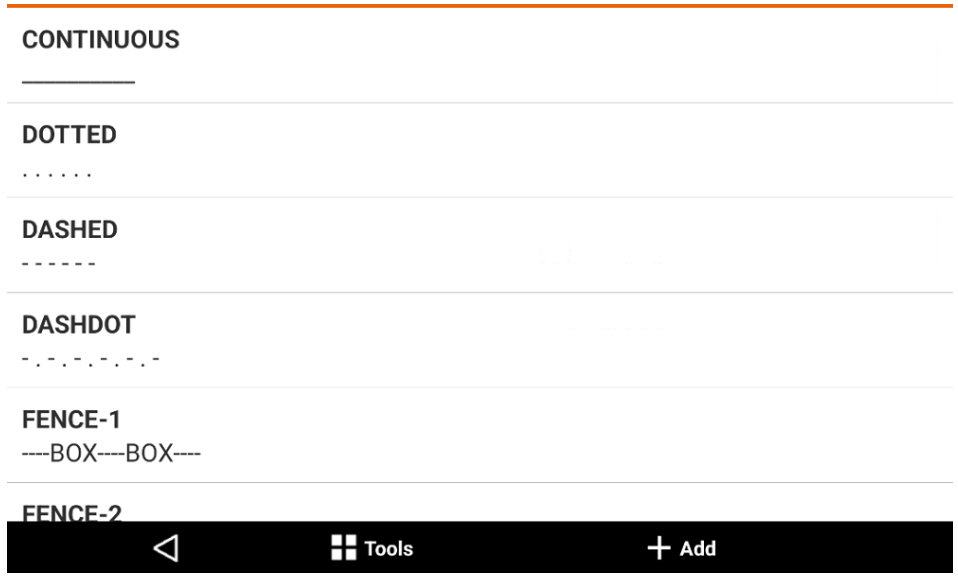
CAD & MAPS

Advanced linetypes

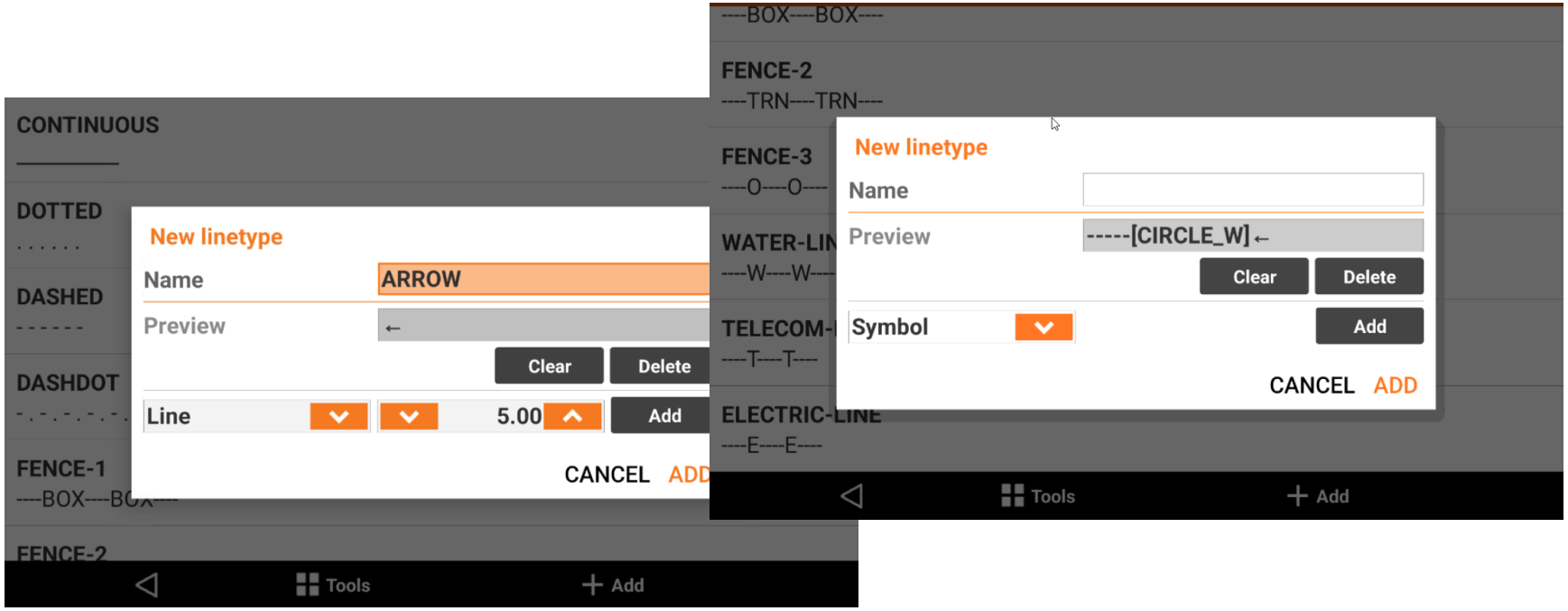
1. In CAD open the layer manager
2. Click to modify or add a new layer
3. Click on the layer to open the linetype





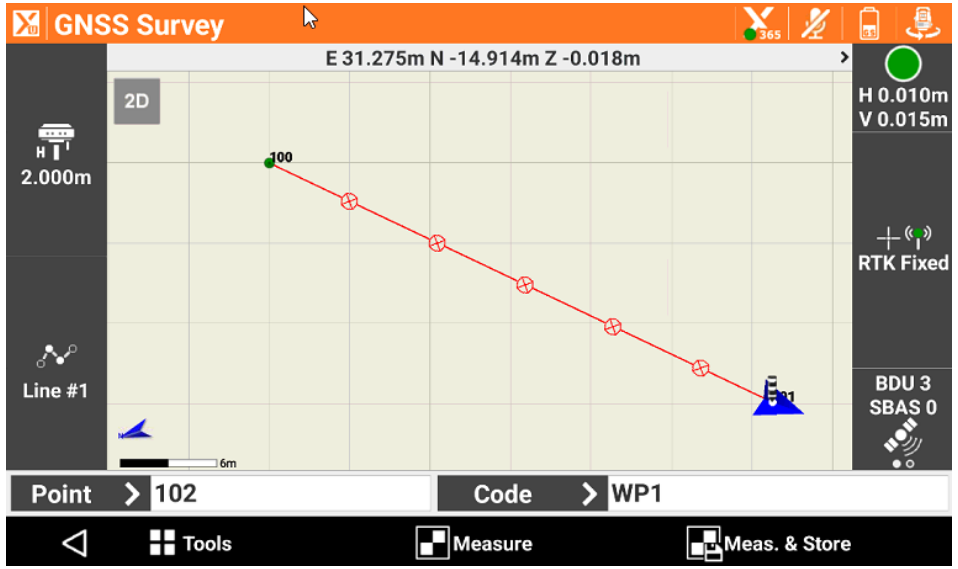
Advanced linetypes

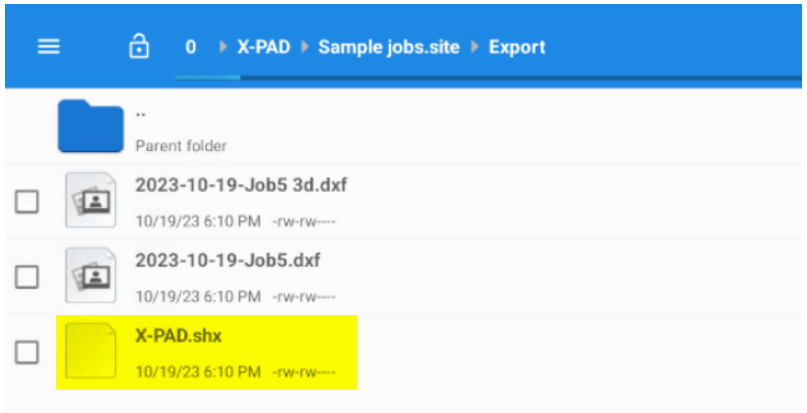
4. You can select one of the new linework or create a customized linework
5. Click on Add to create a customized linework
6. You can add line and symbols. For example add 5 parts of line and a symbol



Advanced linetypes

7. Create a code where this layer is used
8. The linetype is the new linetype you created
9. To open the linetype also in CAD software, when exported remember to copy also the corresponding .shx file exported with the DXF/DWG

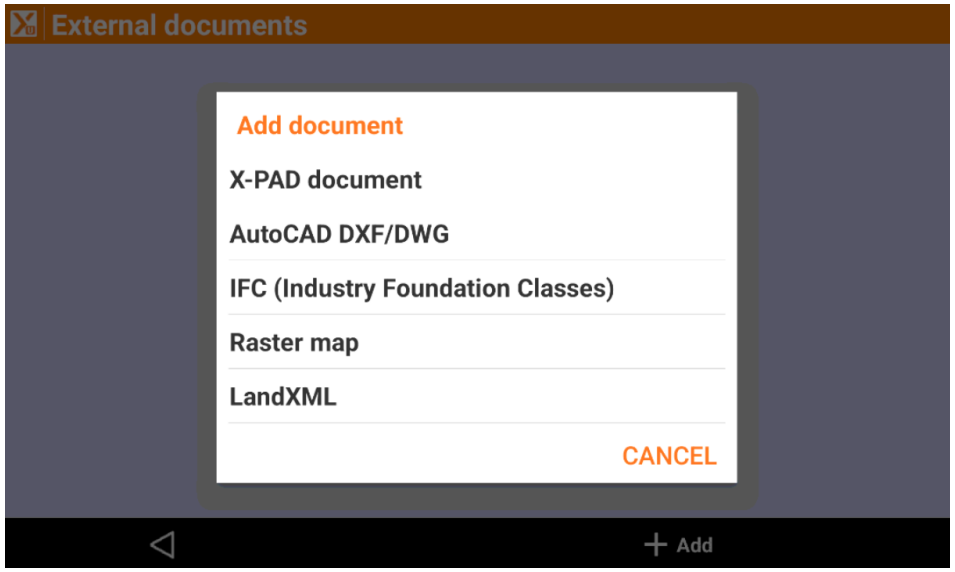


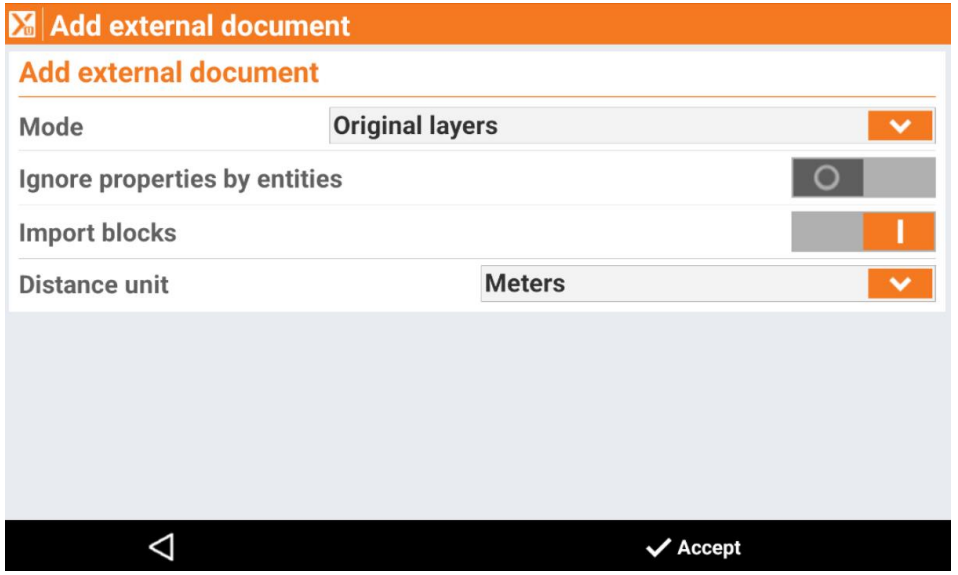


IMPORT & EXPORT

External reference

1. In Job page select External reference
2. Click on Add to add DXF/DWG file as external reference
3. As Mode select Original layers





External reference

4. Open the CAD
5. Open the layer manager
6. Select the external reference to manage its layers, separated from layers of the X-PAD job file