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

Service Pack #1 2023

Spring 2023

GEOMAX

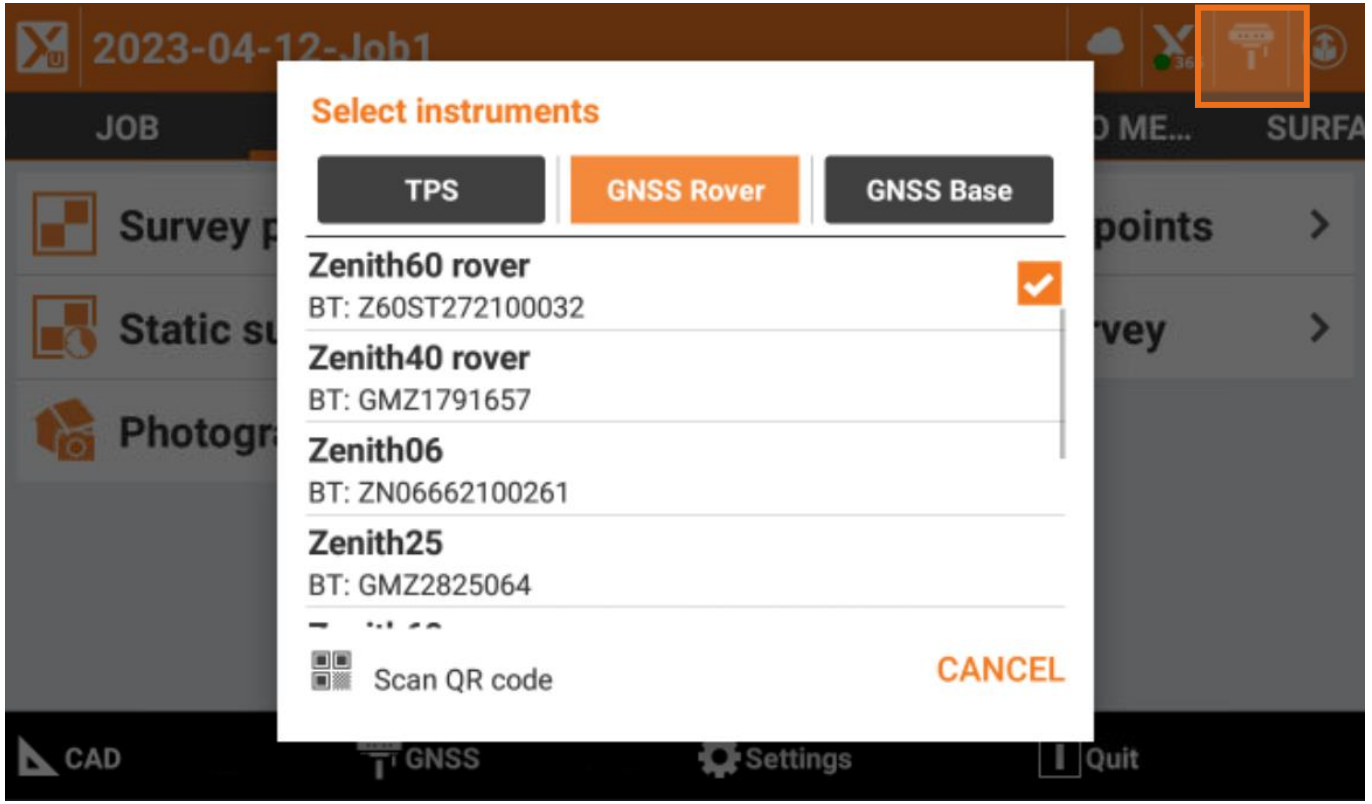
Learn how to use the SP features

- 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

Quick instrument selection

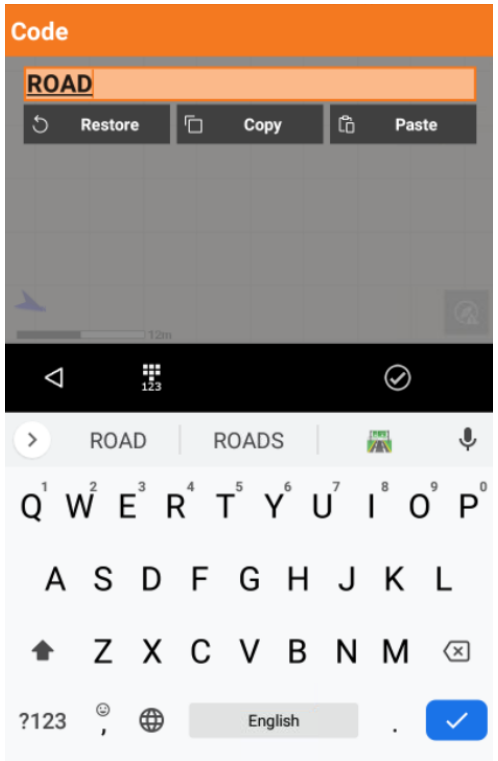
1. To quickly change instrument in a single click, press the new button on top-right of the screen
2. Select from the list the instrument
3. Or scan the instrument QR code for an automatic connection

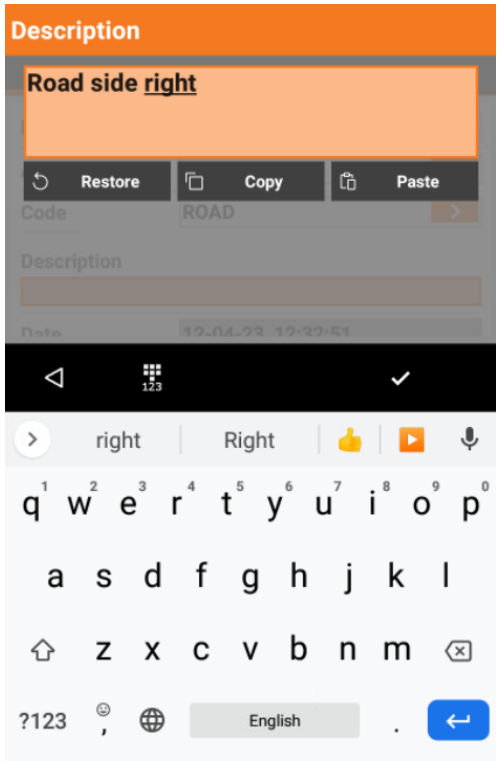


Input fields – Advanced clipboard

This new function allows to copy and paste different informations in the input fields

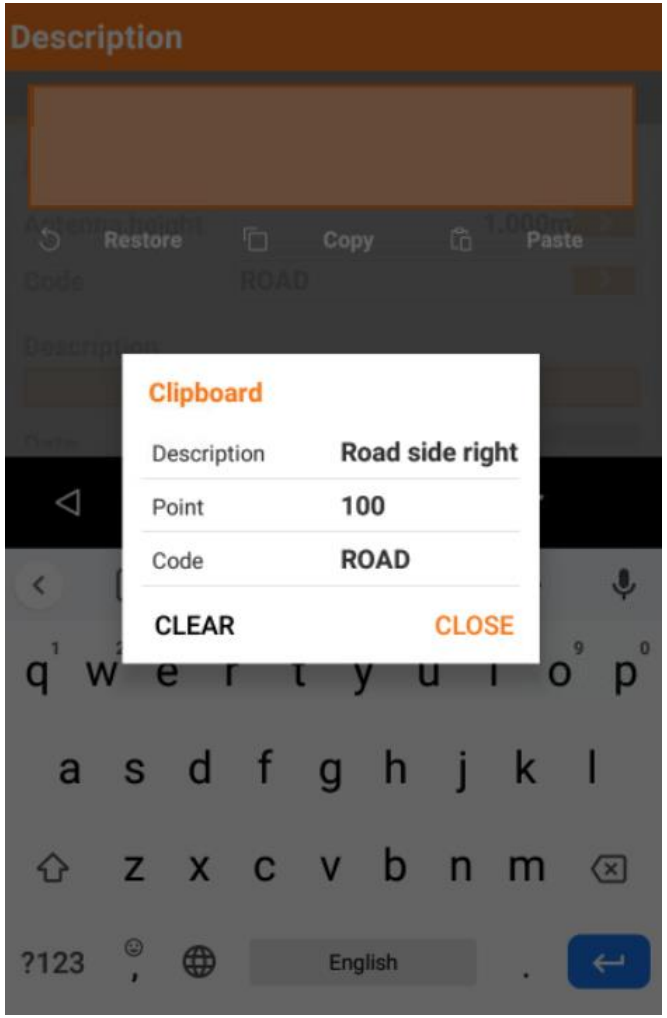
1. Click on an input field and enter a value, then press Copy. You can copy different informations





Input fields – Advanced clipboard

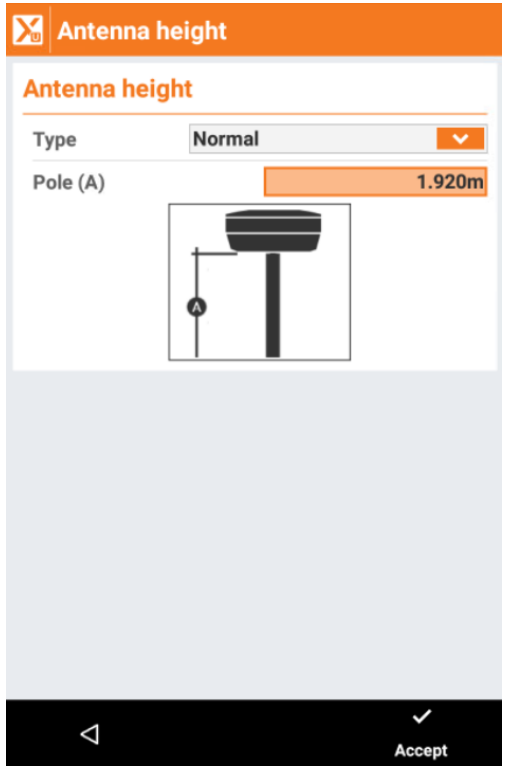
3. Each copied value is stored in the clipboard with the field description
4. Click on a new input field and press Paste to recall the clipboard and paste previously recorded values



Input fields – Formulas

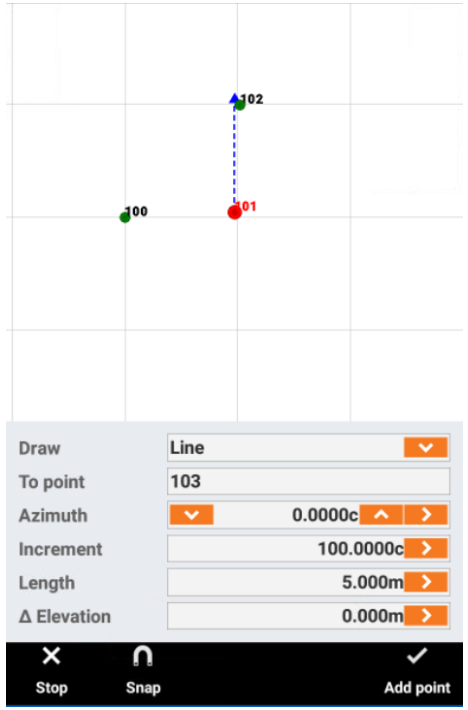
The new input fields also allow to calculate results by mathematic formula. For example:

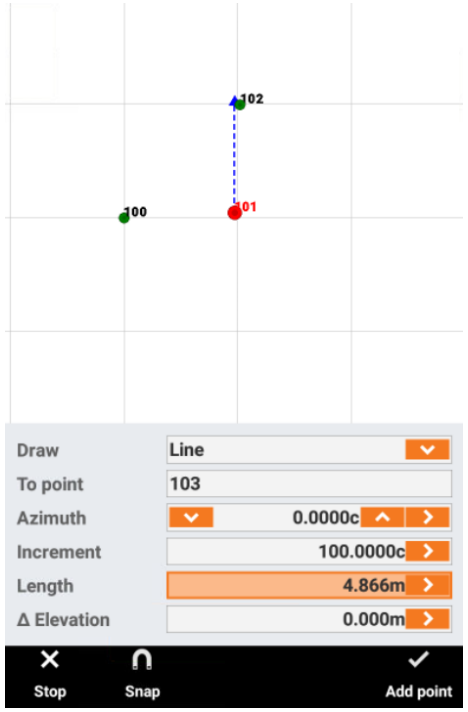
1. Click on a input field and enter a formula to calculate the result



Input fields – Formulas

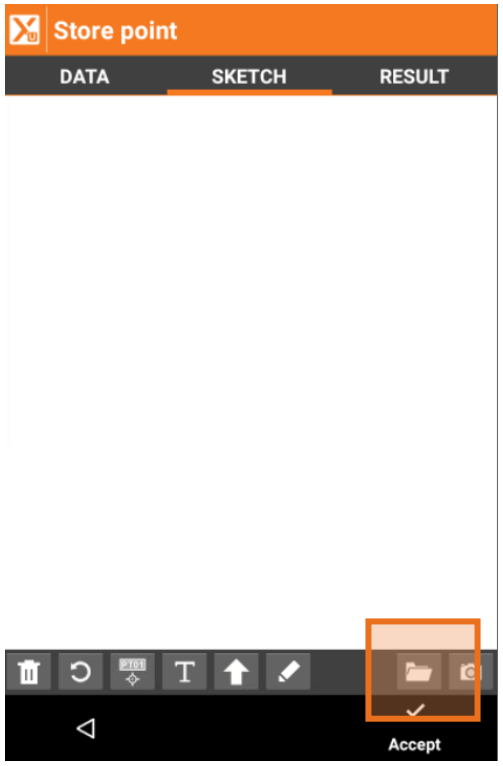
1. Distance by points: in a distance field, enter the 2 points separated by comma to calculate the horizontal distance between them
2. Azimuth corr. By points: in an azimuth field, enter the 2 points separated by comma to calculate the azimuth between them





Load photos from gallery

1. Measure a new point and open Sketch page
2. Click on folder icon to load a photo from photo gallery
3. It is also possible to assign photo from existing points editing the point



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GNSS

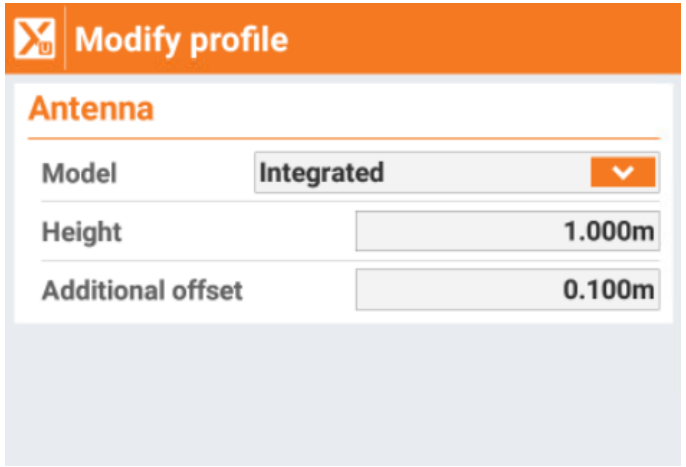
GNSS panel – DOP values

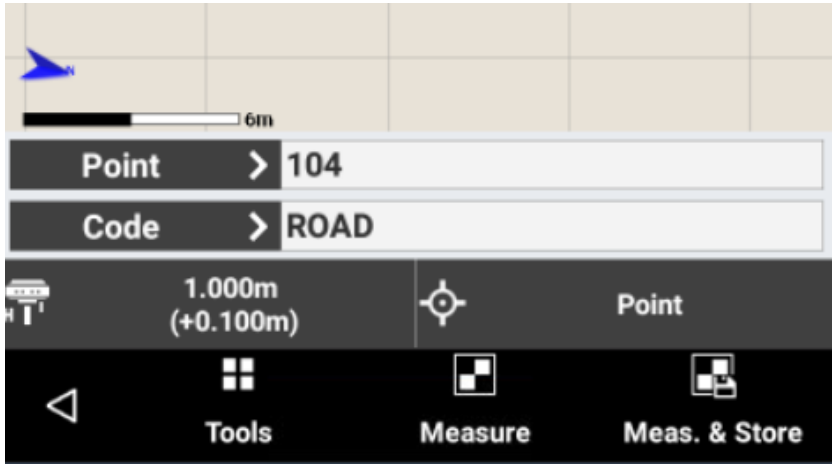
1. While in an application click on GNSS panel to switch between satellite numbers view and DOP view

Antenna height – additional offset

You can apply and visualize an additional offset to GNSS pole height.

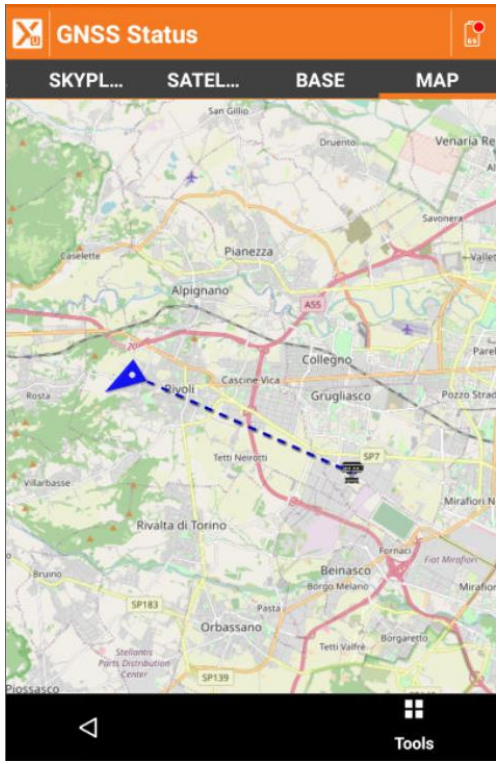
1. Create or modify an existing GNSS instrument profile
2. In the Antenna page you can enter an additional offset
3. Now the additional offset is visualized in all pages to avoid errors

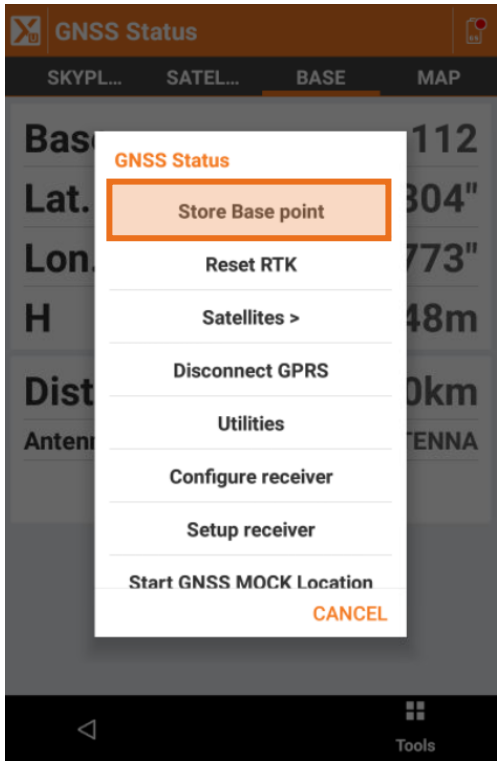




Base position – visualization and store

1. Open the GNSS status page
2. Click on Map to visualize the base position and the baseline
3. Click on Base to visualize base coordinates, and click on Tools to save the base position in topographic point list

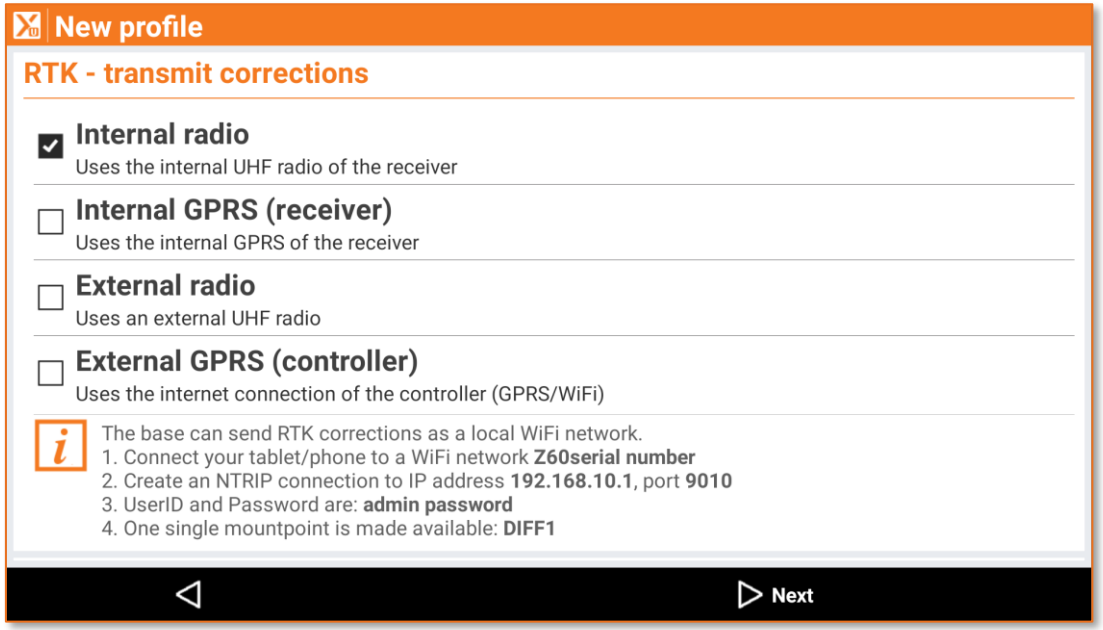




Z60 and corrections through local hot-spot

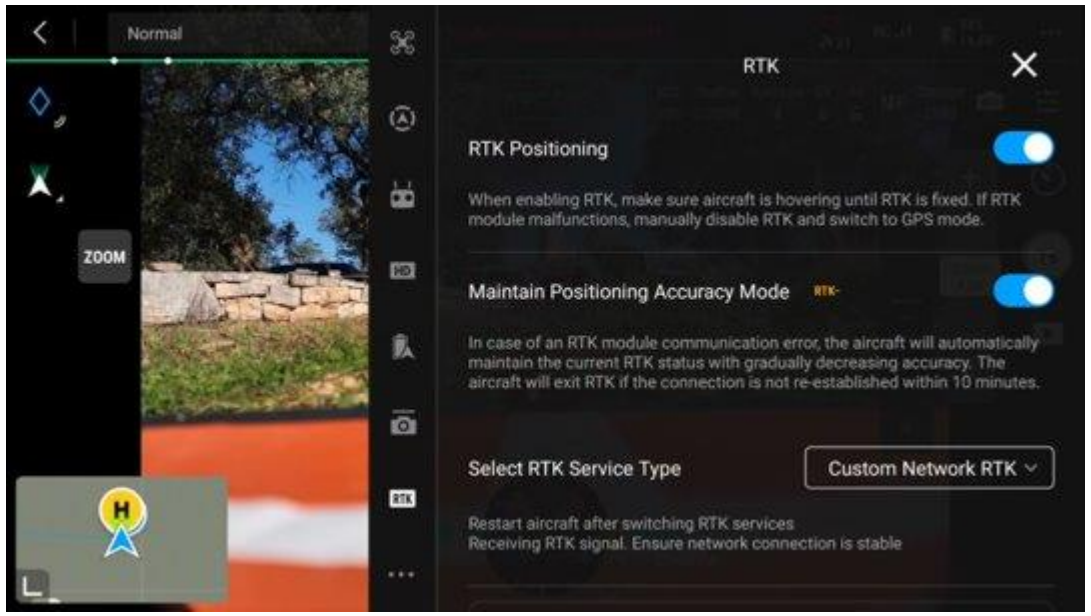
It is now possible to configure Zenith60 base to stream corrections through its hot-spot

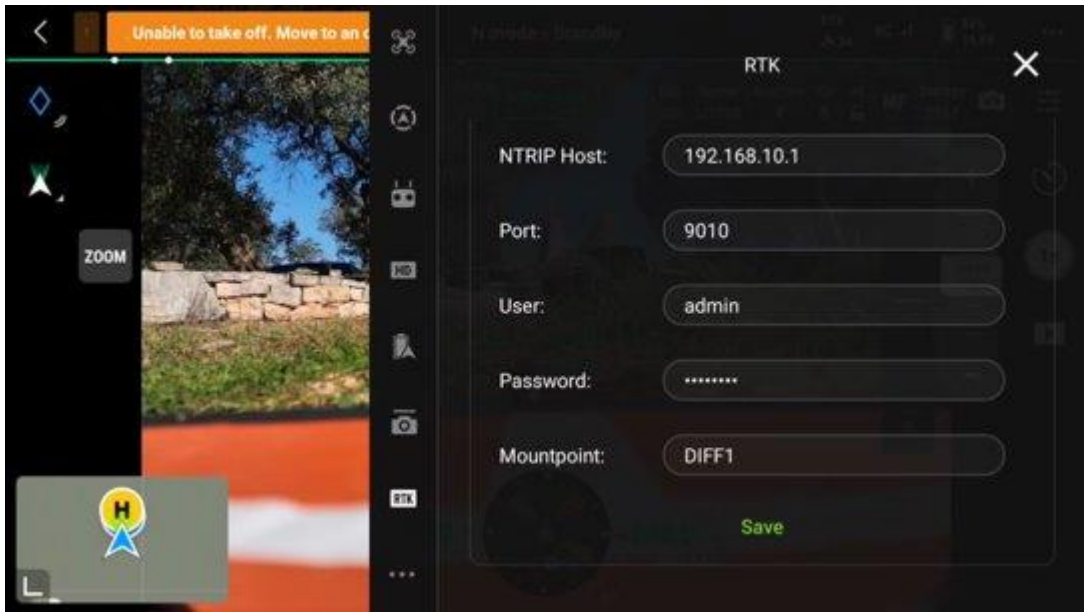
1. Create a new Zenith60 base profile with X-PAD
2. Select the desired RTK correction method (for example radio or GPRS)
3. Follow the instructions to connect 3th party devices and get corrections



Z60 and corrections through local hot-spot

This application can be for example used to connect RTK drones to Zenith60 base, to receive RTK corrections from Zenith60 hot-spot





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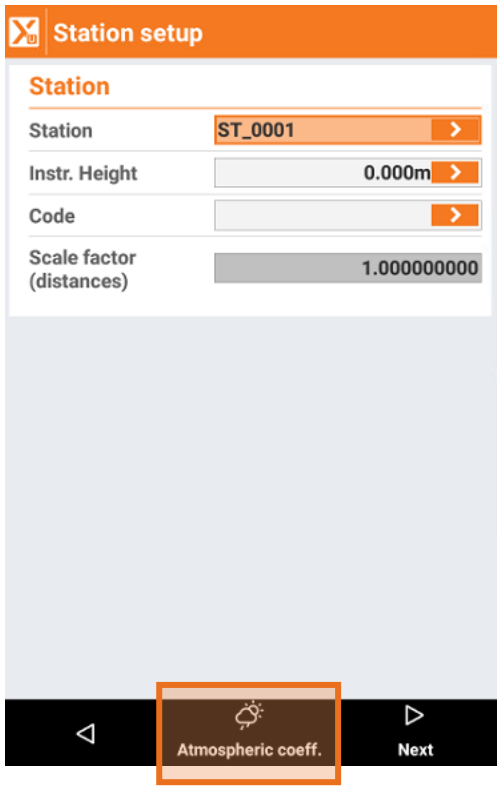
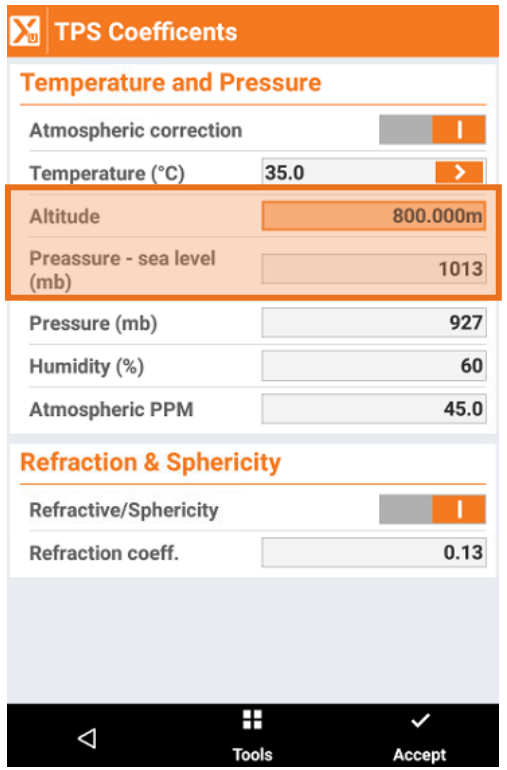
TPS

Pressure on sea-level

1. Start a station setup procedure and click on Atmospheric coefficient
2. Activate the corrections and enter the current altitude to calculate, starting from pressure at sea level, the current pressure





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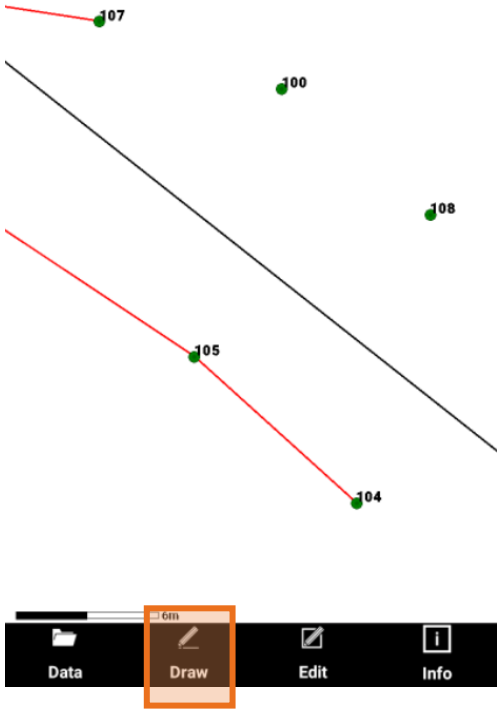
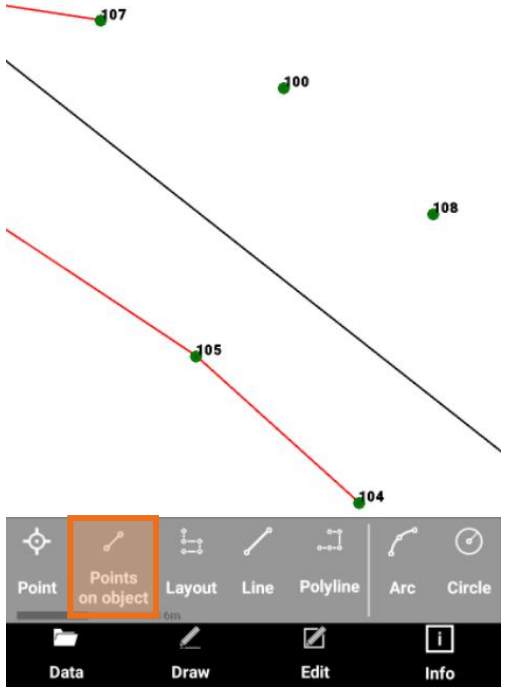
CAD & MAPS

Points on object

Functions to create points on objects in CAD have been improved

1. Open CAD and click on DRAW
2. Click on Points on object

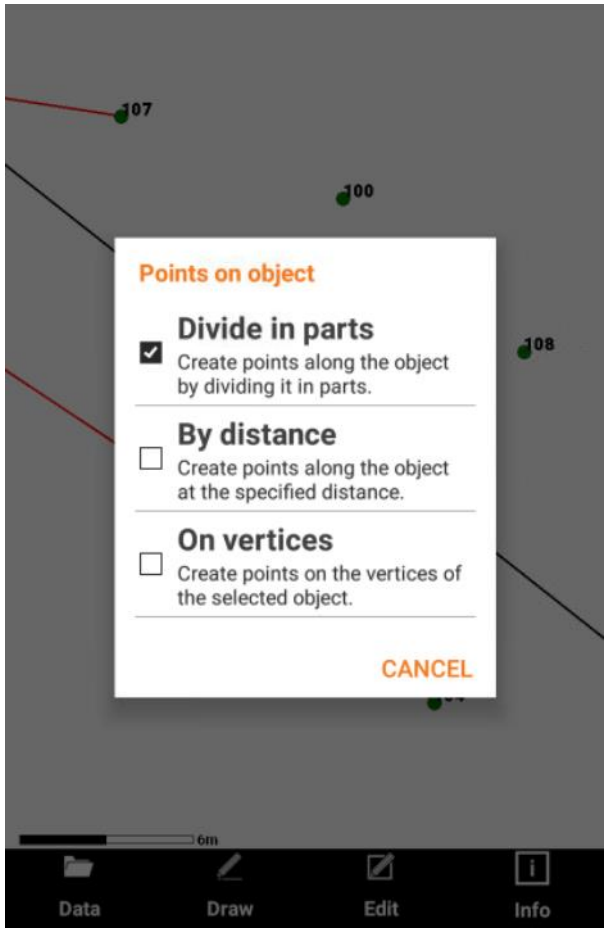




Points on object

Functions to create points on objects in CAD have been improved

3. Select the option
   - Divide in parts: to create points along the object dividing it in equal parts
   - By distance: to create points along the object dividing them by entered distance
   - On verticaes: automatically create points on the verticed of selected object
4. Select the object (for example a polyline) to create the points



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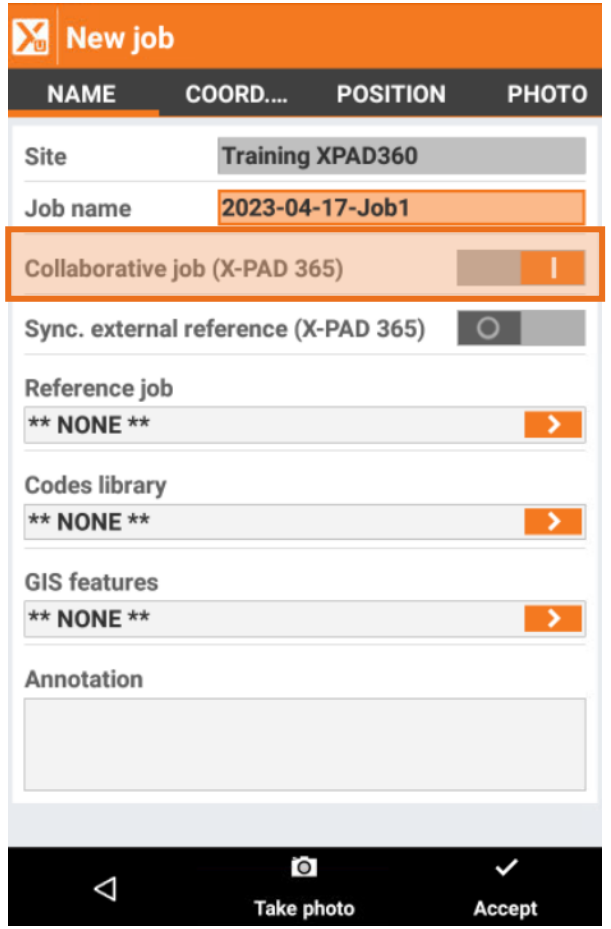
X-PAD365

Collaborative site and jobs

Collaborative jobs and site has been extended to X-PAD365 Professional accounts

1. Login in X-PAD365 with your PRO or ENTERPRISE account
2. When you create a site or a job select the option collaborative
3. Job is now collaborative, so it is automaitically synchronized in the cloud

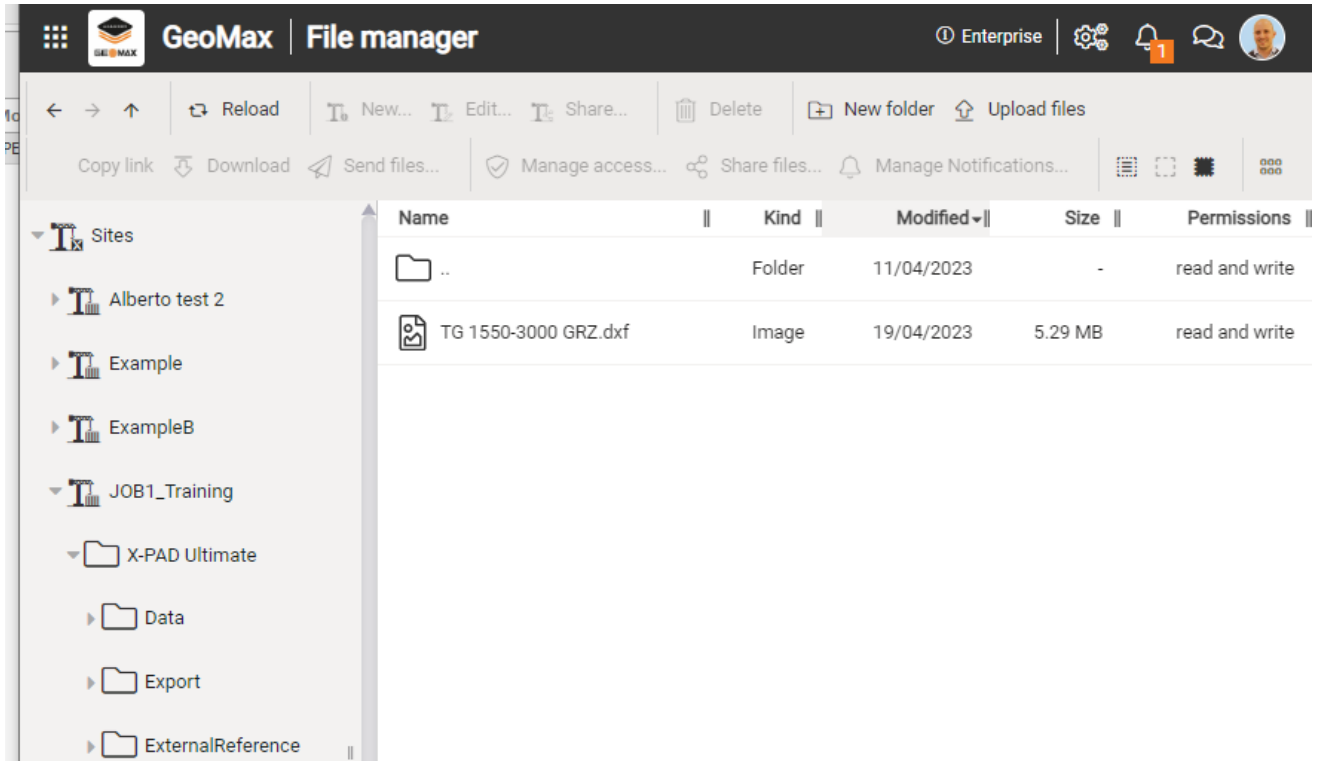
Check our guides and webinars on X-PAD365 to see more

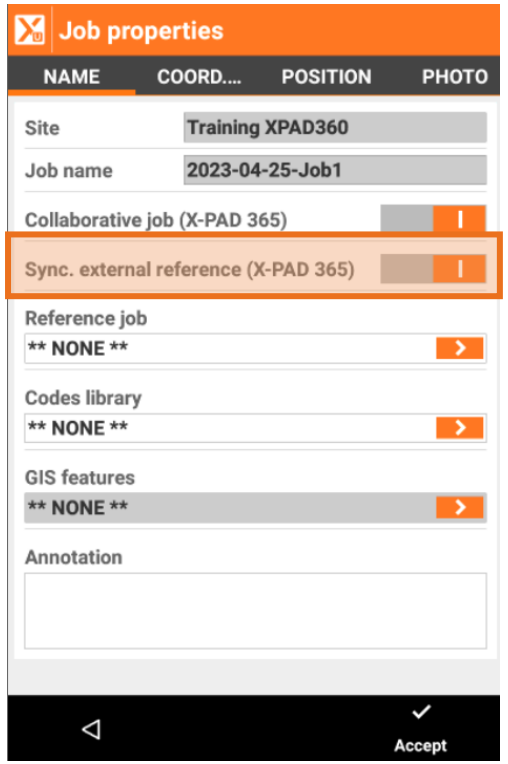


External references in collaborative jobs

Synchronization of external files for collaborative jobs has been improved

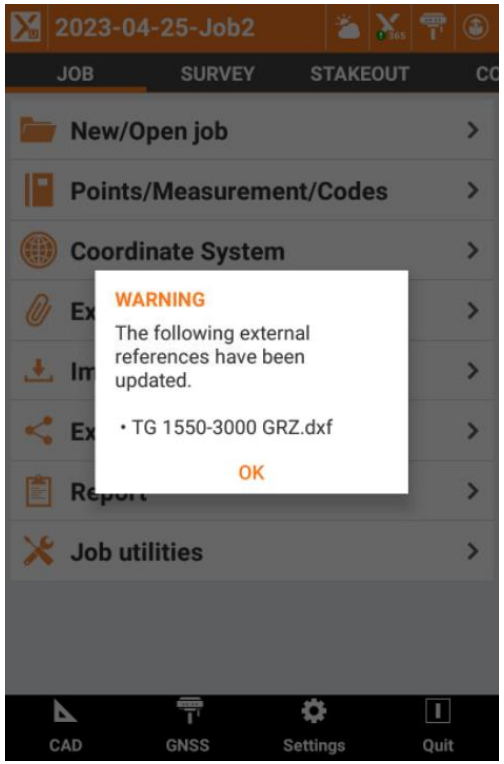
1. From web platform, upload a file in a Site/ExternalReference folder
2. Create a job as collaborative in that site.





External references in collaborative jobs

3. The files loaded in the external reference folder are visible on controller
4. If a new version of the external file is uploaded on server, the new version is automatically used

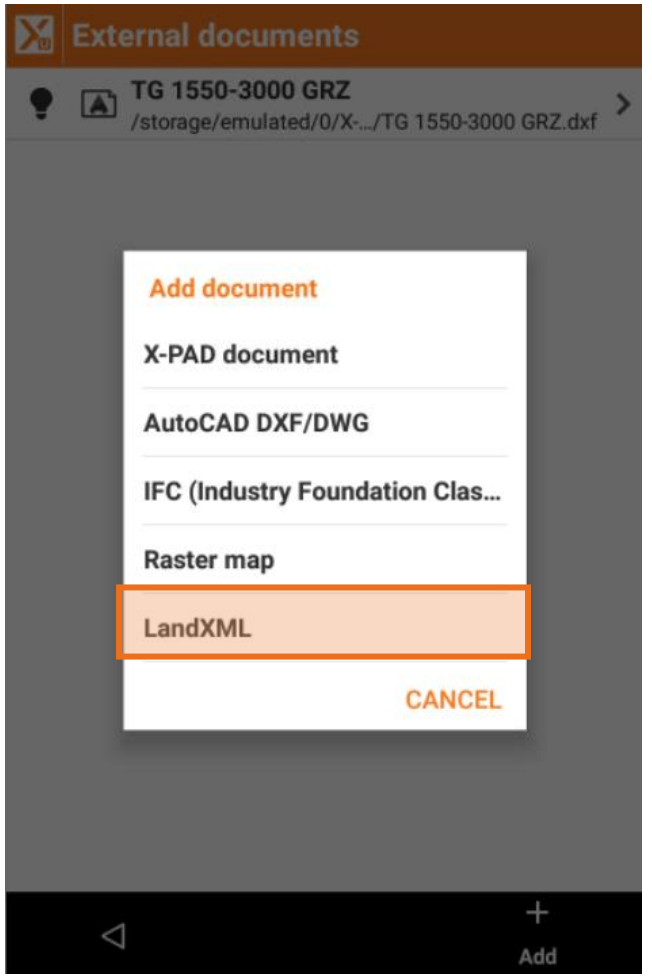


IMPORT & EXPORT

External reference: LandXML

It is now possible to use a LandXML as external reference (which includes points, surfaces and roads)

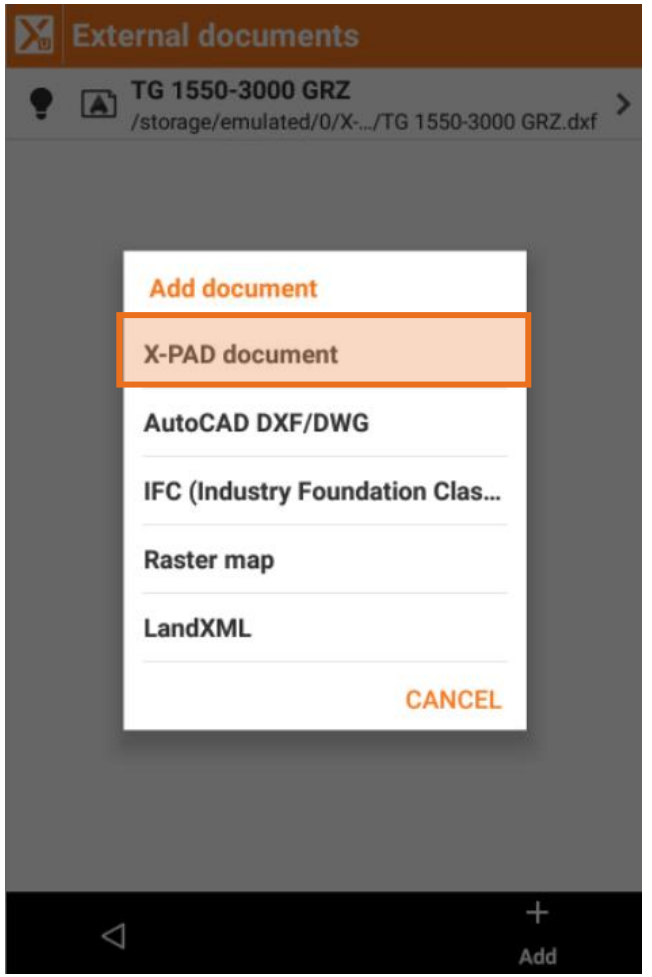
1. Open External references page
2. Click on Add and select the new option LandXML



External reference: X-PAD job with Surfaces and Roads

When an X-PAD job is used in another job as external reference, its surfaces and roads are made available

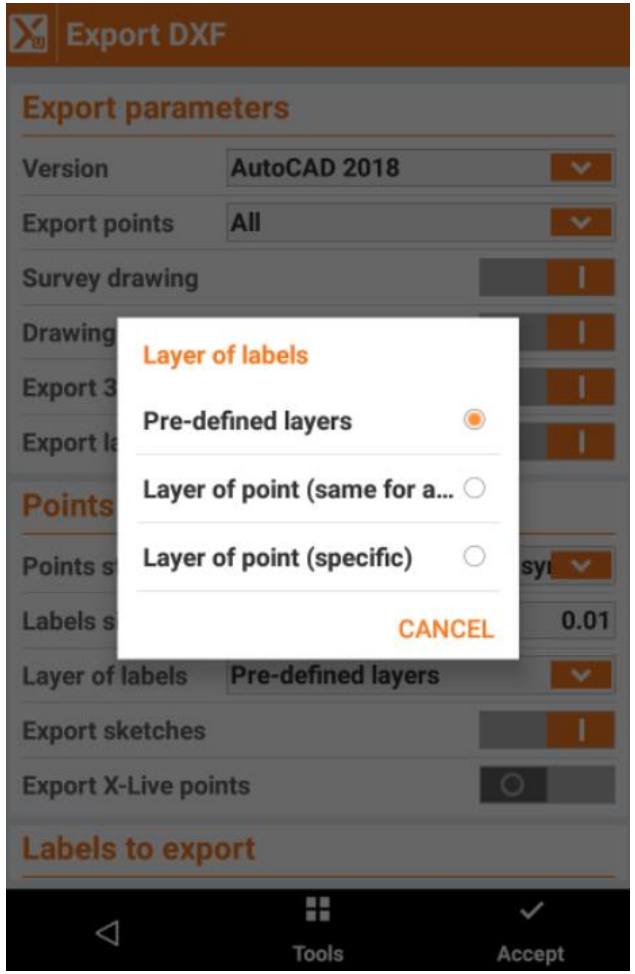
1. Open External references page
2. Click on Add and select X-PAD document



Export DXF - Layer

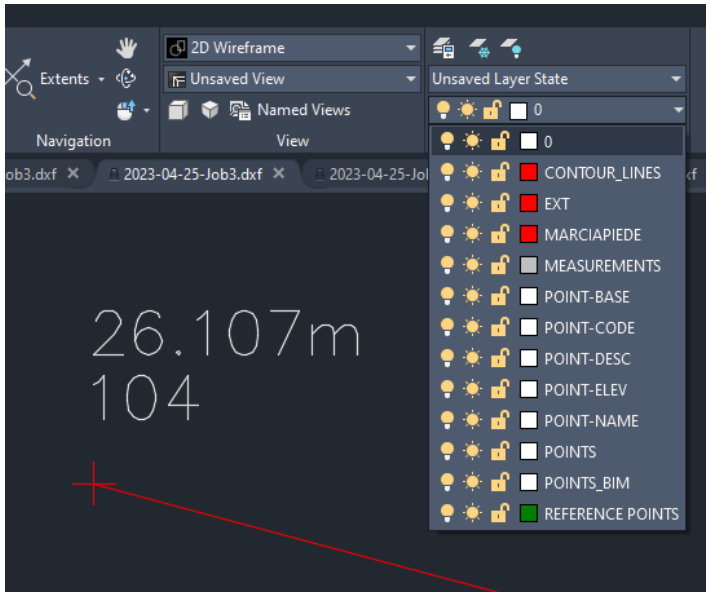
New option in DXF export to have labels stored in a layer in which first pars is the layer of the point to which they belong

1. Select Export DXF
2. Click on Layer of labels and select pre-defined layers or new option

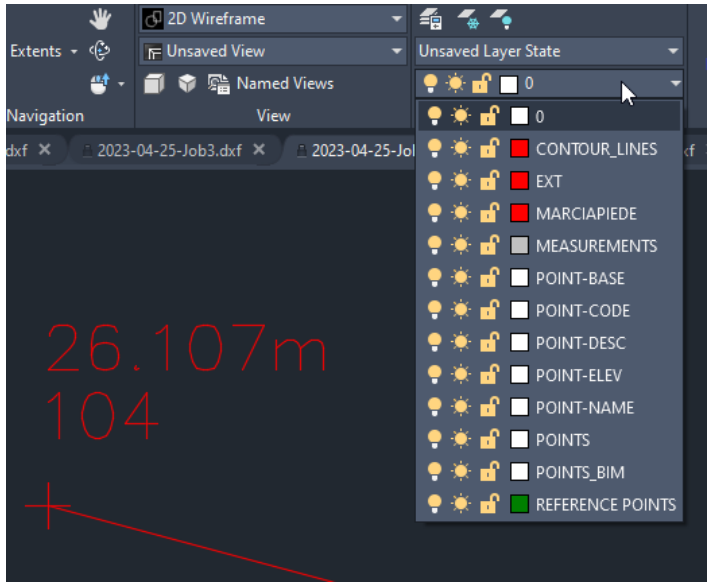


Export DXF - Layer

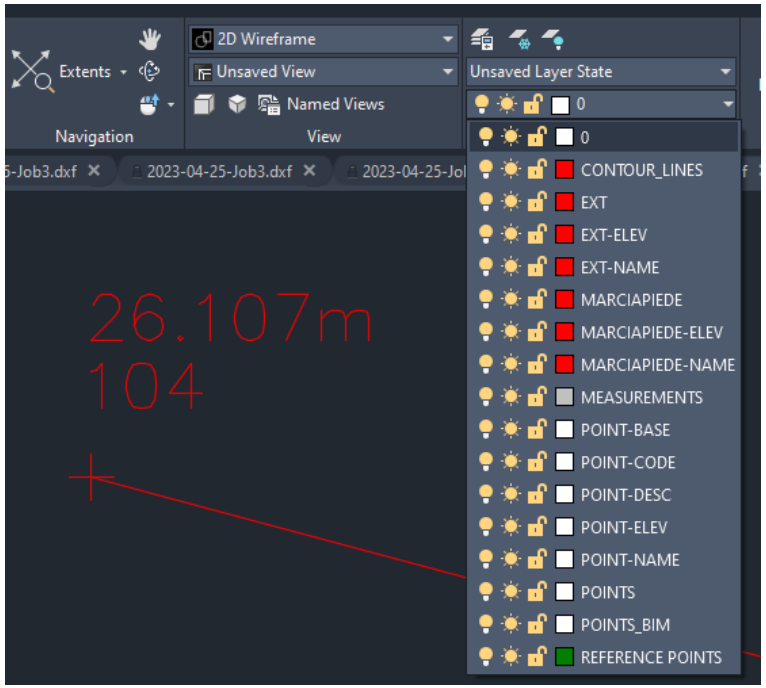
Pre-defined



Layer of point (same for all)



Layer of point (specific)



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AUTOMEASURING

Upload data to X-PAD365

If an X-PAD365 PRO or ENTERPRISE account is available, it is now possible to export results from Automeasuring to X-PAD365 cloud storage

1. Open Automeasuring page
2. Click on Settings
3. Activate X-PAD365 as output server
4. Select the folder where upload the data