

Two ways to import data to create a surface in SurvPC:

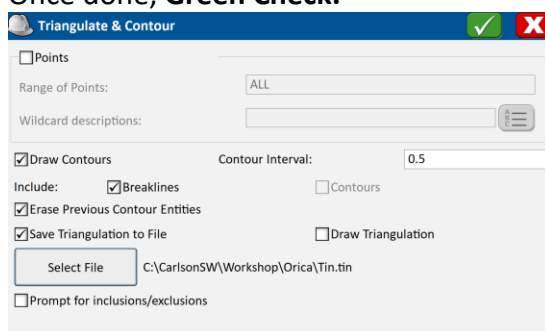
1. The most common method is to request an ASCII DXF that contains 3D Faces (a flat surface defined by three or four vertices (corners) in three-dimensional space). SurvPC can read this file directly in via **Map View > File > DTM > DTM from .dxf**. Tap on **Select New DTM File** and provide a name for the new TIN file (which can then be used in other routines in SurvPC).

2. If the DXF or DWG file does not contain 3D Faces but does contain 3D Polylines or similar, import the DXF file first via **Map View > File > .dxf/.dwg/.dgn**

NOTE: it is strongly recommended that the DWG or DXF **ONLY** contains the data you wish to import and create a surface from to avoid errors in the creation of the surface.

Untick most of the items in the **Import .dxf Options** (unless you're importing points from the DXF).
Green Check.

- a. The entities from the DXF/DWG should now be visible on screen. If there's nothing showing, tap on the **Zoom Extents** button. **NOTE:** if nothing is showing, zoom out and pan around as the entities might be in a different location. If nothing is visible, there's a good chance that the DXF/DWG contains entities that are outside the area of interest. Return to the CAD package and check by performing a Zoom Extents in there to try and find the erroneous data.
- b. Now that the data is imported and onscreen in the **Map View** screen, go to **Tools > Surface > Triangulate and Contour**
- c. If you're using 3D polylines to create a surface, untick **Points**. Points can also be used if they are located in the points list.
Enable **Draw Contours** and set a **Contour Interval** if needed. This helps with the visualization of the newly created surface. Enable **Breaklines** if they are in the imported file.
Enable **Save Triangulation to File** then tap **Select File** and name and save a TIN surface file.
Once done, **Green Check**.



- d. Ensure the contours are shown correctly on screen. These can be turned off via **View > Layer** and highlight **CTR** layer and either tap the box to the left of the layer name or tap the **On/Off** button.
- e. The resulting TIN file can then be used in routines such as **Survey > Elevation Difference**. More information on this routines can be found either in the [online help file](#) or in this [Knowledge Base Article](#).