

TRIMBLE ACCESS HELP SHEETS

Using Map Functions

SUPPORTED MAP FEATURES

This section will guide the user through some Trimble Access Map functions including: Importing surfaces, Alignments, .shp files, .dxf files; creating surfaces, creating lines and alignments, and cogo functions. More functions are located in the Trimble Access Users Manual on pages 73-88, 99-102.

NOTE: If planning to use these features, it will help to keep survey jobs and associated data grouped in subfolders to help organize data and prevent jobs from getting cluttered.

From the Trimble Access User's Manual P. 73

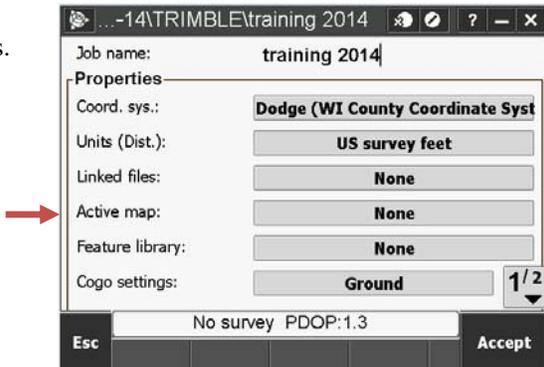
The *Map* screen is a graphical representation of features from multiple sources:

- points, lines, and arcs from the current job database
- points from linked jobs and linked CSV files
- points, lines, arcs, polylines, and other map entities from **map files** (for example DXF and SHP files)
- alignments defined as .rxl files
- Trimble roads defined as .rxl files
- surfaces (TTM and LandXML files)
- images from georeferenced background image files. The following image file types and associated world files are supported:

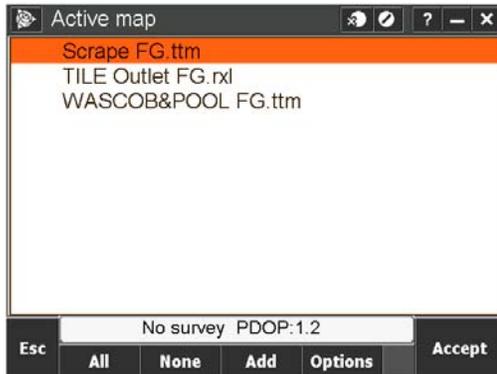
Image files	World files
Bitmap (.bmp)	.wld .bpw .bmpw
JPEG (.jpg)	.wld .jgw .jpgw
JPEG (.jpeg)	.wld .jpegw
PNG (.png)	.wld .pgw .pngw

BRINGING MAP FILES INTO A JOB

1. Create a new job with the appropriate coordinate settings.
2. In *New Job / Properties of Job*, select *Active Map*. Select *Add* from the bottom toolbar



All of the files supported by Active Map will populate if they are located in the same folder as your job. If the files are located somewhere else, tap the *Add* button and navigate to the appropriate folder and select the maps you wish to add.

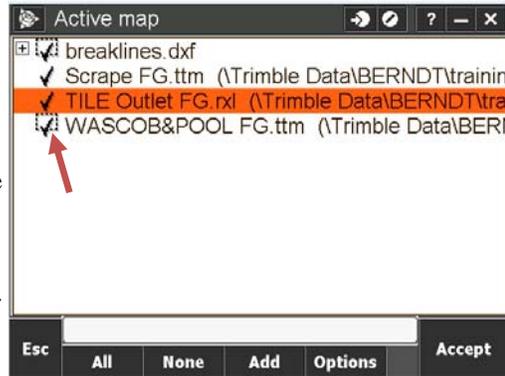


DON'T HIT ACCEPT. GO TO STEP 3.

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3. To make the files active within a job, tap left of the file name. A check mark will appear indicating the file can be viewed in the map screen. Tap the same spot and a box will appear around the check mark and the file becomes interactive in map screen. SEE TABLE BELOW



- Surfaces (.ttm), Alignments (.rxl), Shapefiles (.shp) and DXF files MUST be interactive in order to stake them using the map screen.
- In some cases it may be useful to not make a file interactive. For example, you may bring in a .shp or .dxf for a background reference to show a wetland boundary, property line, or floodplain. The location may be important, but may not need to be staked.

- NOTE: The DXF file has a plus sign  associated with it. A DXF file is a generic CAD file that will contain all the layers included with the CAD drawing. You can expand the file and turn layers on and off the same as you would in CAD.

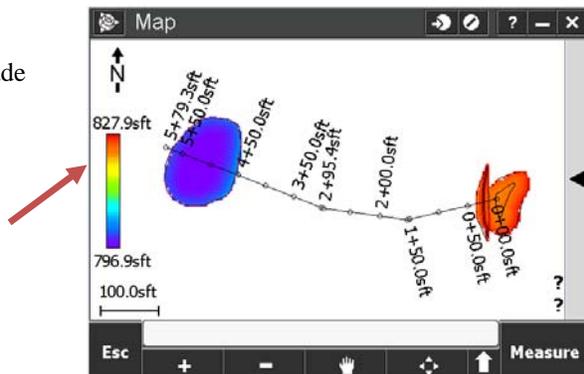
From the Trimble Access User's Manual P. 101

File icon	Layer icon	indicates..
No icon	-	the file is not selected
×	-	the file has been loaded but there are no supported entities in the file to display
✓	-	some layers are visible in the map but nothing can be selected
✓	-	all layers with supported entities are visible in the map, but nothing can be selected
	-	some layers are not visible in the map, but others are both visible and can be selected
	-	all layers with supported entities are visible in the map, and some of those can also be selected
	-	all layers with supported entities are visible in the map and can be selected
-	No icon	the current layer is not visible in the map
-	×	there are no supported entities in the layer to display
-	✓	the current layer is visible in the map
-		the current layer is visible and selectable in the map

MAP DISPLAY PROPERTIES AND SETTINGS

4. Hit *Accept* when the correct files are activated and made interactive. Navigate to the Map.

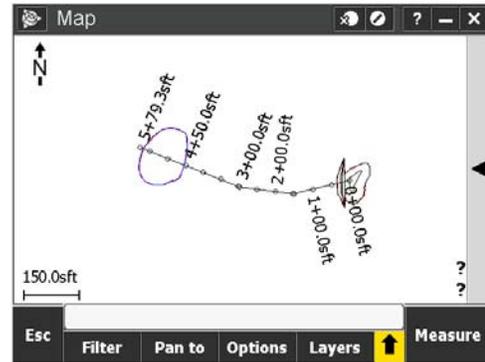
- Notice the two surfaces appear with a color gradient and graph.
- All alignments appear with stations.
- .dxf and .shp files display as lines.



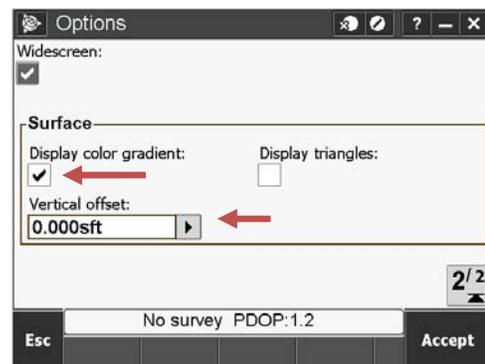
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5. Active Map files can also be added or removed by tapping the *Layers* button from the Map screen.

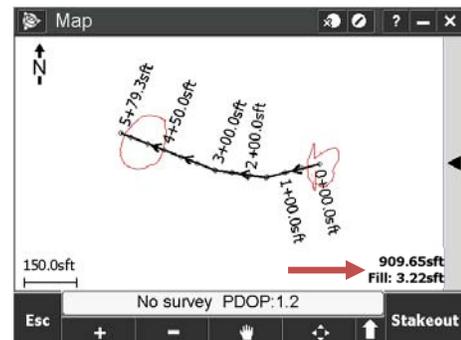


6. Change map display options by tapping the *Options* button. This is helpful when you have a lot of map features in one job.
- You can turn off the surface color gradient on page 2 of the options menu. On large surfaces (pits or wetlands) it will be very helpful to turn the color gradient off as they clutter the display and take a long time to load.
 - Page two of the menu also allows you to set a vertical offset to the surface. Staking is discussed in the next section.



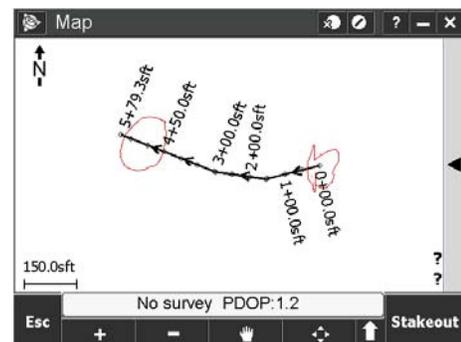
STAKING USING THE MAP DISPLAY

1. SURFACES (.dtm, .ttm, .xml)
- Once a surface file is added to a job and made interactive, the real time design elevation and cut/fill will appear in the lower left corner of the map. NOTE: You must be within the surface limits.
 - Tap Options to set vertical offsets to the design grade and change display settings.
 - The design elevation and a Cut/Fill will display in the lower right corner of the map screen.



2. ALIGNMENTS, LINES, & LINE FILES (.dxf, .shp)

- From the map screen, tap on an alignment to select it. A selected line or alignment will now have a heavier line weight and directional arrows. Tap *Stakeout*. You will go directly to the alignment stakeout menu.
- NOTE: You can also go to *Stakeout, Alignments* from General Survey (see Alignments & Lines help sheet).
- Follow the alignment stakeout instructions in the Lines & Alignments help sheet.



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ACTIVE MAP MENU FUNCTIONS

Many functions from the General Survey menu can be accessed through the map screen. To access these functions, select a point, several points, an alignment, or other map feature then tap and hold the stylus on the screen. A menu table will appear with multiple functions. The menu options will vary depending on what map features are selected.

Some Key Features Include:

- *Compute Inverse*
- *Create Line*
- *Create Alignment*
- *Area Calculations*
- *Create Surface*
- *Calculate Volume*

See the selections below from pages 82-88 of the Trimble Access User's Manual.

Using the Map for Common Tasks

To select a feature from the map, do one of the following:

- Tap the required feature(s) from the map area. If there is more than one feature in the highlighted area, a list of features in this area appears. Select the features as required and then tap *OK* to return to the map.

Tip - When selecting a line, arc, or polyline to stakeout, tap near the end of the line, arc, or polyline that you want to designate as the start. Arrows are then drawn on the line, arc, or polyline to indicate the direction.

If the direction of the line, arc or polyline is incorrect, tap the line, arc or polyline to deselect it and then tap it at the correct end to reselect the direction required.

The direction of Alignments and Trimble roads is defined when they are created, and cannot be changed.

Note - The offset directions are not swapped when the line direction is reversed.

- Drag a box around the features you want to select.

When multiple features are selected in this way they are typically sorted in the order in which they are stored in the database. If the order of the entities in the selection is important, you should select them one by one.

To select a feature from a map file, the map file or layers must be made selectable.

- Tap and hold on the map and then select *Select* from the shortcut menu.

This option is useful when deleting points.

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To deselect a feature from the map, do one of the following:

- Tap the selected feature to deselect it. If there is more than one feature within the highlighted area, a list of features within this area appears. Deselect the features as required. Tap *OK* to return to the map.
- Tap and hold on the map and select *List selection* from the shortcut menu. A list of the selected features appears. Deselect the features as required.
- To clear the entire selection, double-tap off the selected features. Alternatively, tap and hold on the map and select *Clear selection* from the shortcut menu.

To carry out a task using the selected feature(s), do one of the following:

• Measure

- ✦ If there are no features selected, tap *Measure* to measure the current position.

Tip - To change the code and/or descriptions when using *Measure* from the map, select a point in the

map whose settings you want to be the default, tap and hold on the map briefly and then select *Set point details*.

Alternatively, if you want to change default values, but do not want to use the default from an existing point, make sure that there are no features selected before you set point details.

• Stakeout

- ✦ If one or more features are selected, tap *Stakeout* to stake out the selected feature(s).
If more than one point is selected, the points are added to the *Stake out points* list, from where you can select them for stakeout.
- ✦ If more than one line or arc is selected, the first item selected is the one used for stakeout.
- ✦ Double-tap a feature to stake out.
If there is more than one feature within the highlighted area, a list of features within this area appears. Select the feature to stake out.

Tip - If two points are selected, tap and hold on the map and then select *Stake out line* to stake a line defined by the two selected points.

If the selection contains different feature types (points, lines, arcs), only features of the first type selected can be staked out from the map. To stake out other feature types, clear the selection then reselect the other features.

Setting default point details

Tap and hold briefly on the map and then select *Set point details* from the menu.

Use *Set point details* to set the *Next point name*, *Code*, and *Description 1 and Description 2* (if enabled) that will be used as the defaults the next time you measure a point.

If you select a single point in the map when you select *Set point details*, the next available point name, and the code and descriptions of the selected point, become the defaults.

Tap and hold shortcut menu in the map

Tap and hold on the map area to access a shortcut menu. The shortcut menu provides quick access to common tasks. The tasks depend on the number and type of features selected.

In the following table, the * symbol against a task shows that you can access it through the shortcut menu for the feature at the top of that column.