Use Tracking Points for Multiple Positions and Multiple Targets
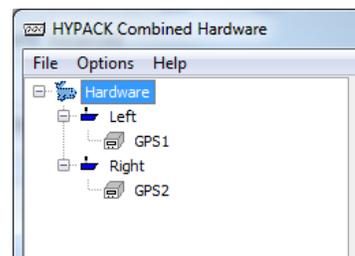
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A few weeks ago I was contacted by a customer who was trying to position two crane booms onto two different targets at the same time.

Their current setup: (Figure 1, left) They have one barge and a GPS is installed on each boom. They have a grid of targets and need GPS 1 to be placed on Target 1 and GPS 2 onto Target 2 (and so forth…).

HYPACK HARDWARE setup (Figure 1, right): GPS 1 on first mobile (Left) and GPS 2 on second mobile (Right).
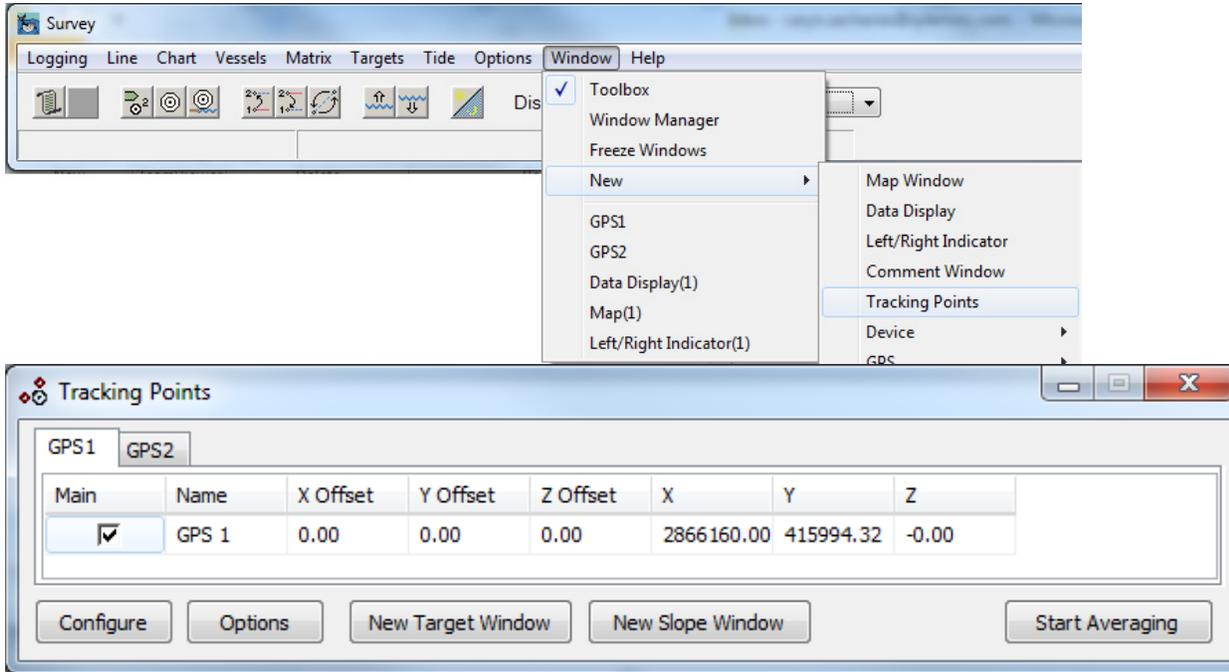
FIGURE 1. *An example of what the crane/barge with two booms might looks like.(left), Sample Hardware Setup (right)*

The customer already had a target file loaded, but needed help selecting two targets at one time. I suggested to use Tracking Points. See following steps on how to do this:

1. **In Survey, open the Tracking Points window**. Select WINDOW- NEW- TRACKING POINTS. The Tracking Points window has 2 tabs, 1 for each mobile.
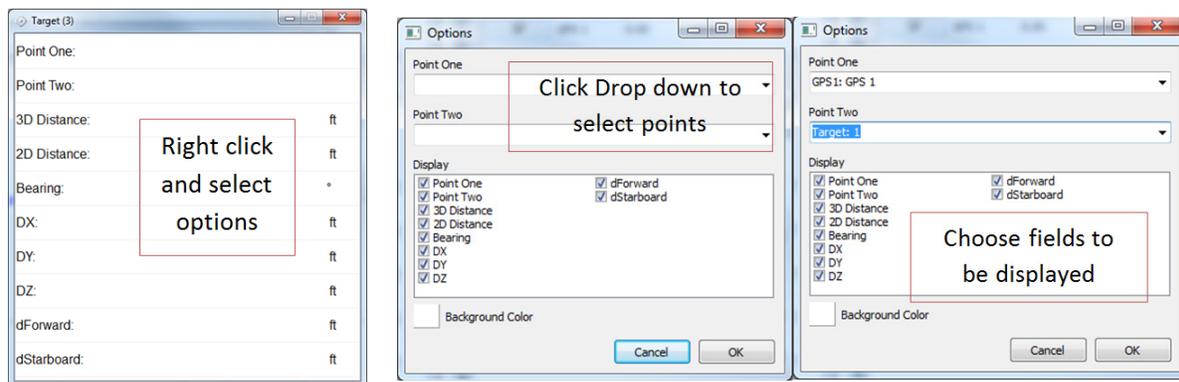
FIGURE 2. Opening the Tracking Points Window

2. **Click [New Target Window].** This window will look like Figure 3.
3. **Configure the window.**
   a. **Right-click in the Target window and select Options.**
   b. **Click the drop-down arrow and select the points.**
      Example:
      - Point One: select GPS 1
      - Point Two: select a Target
      - Select what you want displayed.
4. **Click [New Target Window] again and configure it for GPS 2 and another target.**
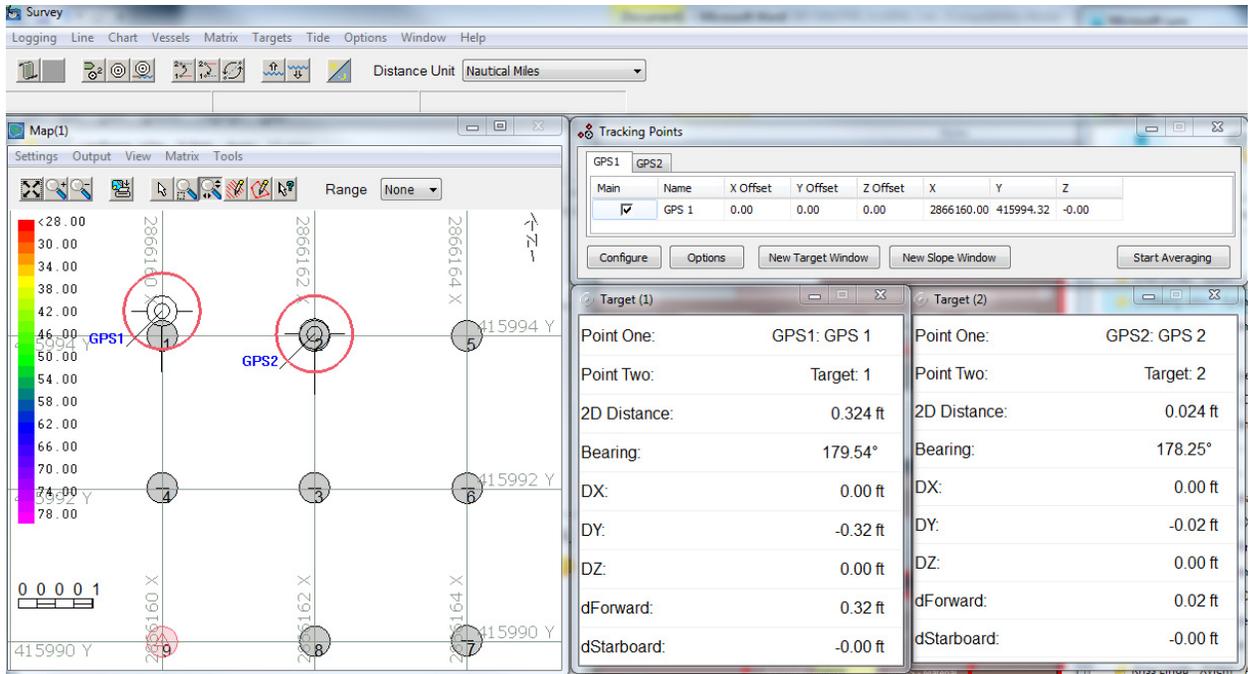
FIGURE 3. configuring the Target Window

Now you can position both GPSs on the two separate targets. When it is time to switch targets, right-click on the Target 1 and Target 2 Window and select Point 2 accordingly.

Look at Figure 4. In Target (1) Window, Point One is GPS1 and Point Two is Target #1. You can see the distance to point two from GPS1 is 0.324ft. In Target (2) Window, Point One is GPS2 and Point Two is Target #2. The distance to point two from GPS 2 is 0.024ft.

FIGURE 4. *Two GPS Devices Each Referencing a Different Target*

NOTE: You can always have more target windows if needed.

I hope this helps if you need this option. As always if you need any assistance or questions please contact help@hypack.com.