New Features on the Smart Aligner App

NOTE: It is assumed that the user is already familiar with how the Smart Aligner System (Smart Aligner Tool, Universal Mounting Bracket and App) operates and mounts to standard antennas. If not please follow instructions for operation of the Smart Aligner System by watching our videos and reading the User Guide and other information at:
http://www.multiwavesensors.com/antenna-alignment/

Several new features have been added to the Smart Aligner App based on customer feedback and suggestions. Please install the newest version of the App. The new features are:

Date/Time Stamp on the Images in the Report
Manual Tilt and Roll Entry
Tone Align
Dish Target Calculator

Date/Time Stamp on the Images in the Report

Smart Aligner
GPS Antenna Alignment Tool
MultiWave Sensors
www.multiwavesensors.com

Site Alignment Results

Site: Buckingham circle
Report Date: 2016-07-19 @ 14:54:12

Multiwave Sensors Inc.
110 Parr Blvd, Unit 1
Bolton, Ontario
L7E 4J4, Canada
bruce@multiwavesensors.com
www.multiwavesensors.com

Antenna SN:
Antenna Type: Amphenol/bxa-700800-6cf-edin

Alignment Date: 29/08/2014 7:52:45
GPS Integrity: 68
Latitude: 38.020829 N
Longitude: 78.530300 W
Elevation: 611.32 ft
Contractor: hts

Carrier: Verizon
Site: Buckingham circle
Sector: alpha
Position: a3
AGL Height: 102 ft (user)
Electrical Tilt: 0.0°

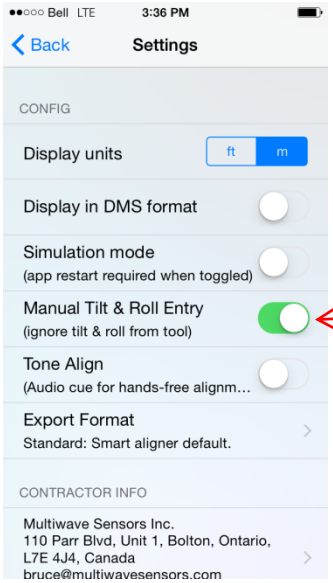
User Input
6'X8"X6"
3'6"
n/a
ldf4-50a/4'
n/a

	MEASURED	TARGET	DIFFERENCE
Azimuth (True)	3.9°	10°	6.1°
Tilt	▲ 0.2°	0.0°	0.2°
Roll	▼ 0.2°	0.0°	0.2°

Date/Time Stamp of when image was taken. Automatically appears on report.
Format: 2016-07-19 14:53:35 EDT

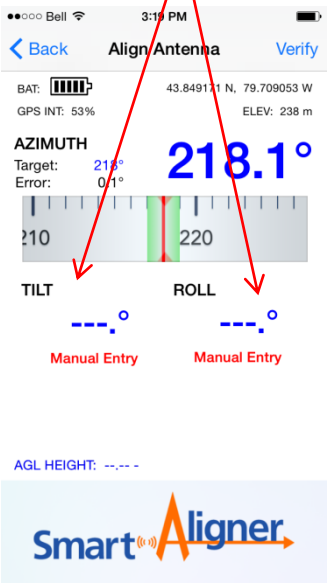
Manual Tilt and Roll Entry (option is set in Settings)

In the event that the contractor is required to use a separate device to measure the Tilt and Roll the contractor can enter the value from that device into the App. This option must be set in the App Settings. The Tilt and Roll values from the Tool will be ignored.

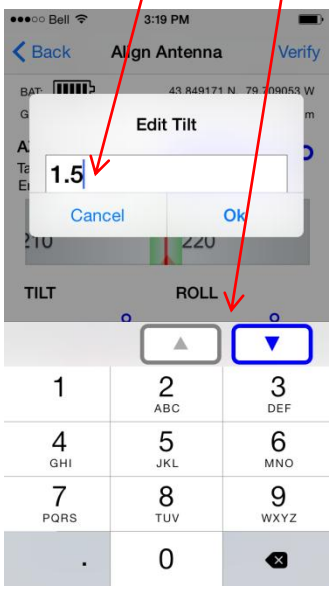


Manual Tilt and Roll Entry
Toggle to green to activate

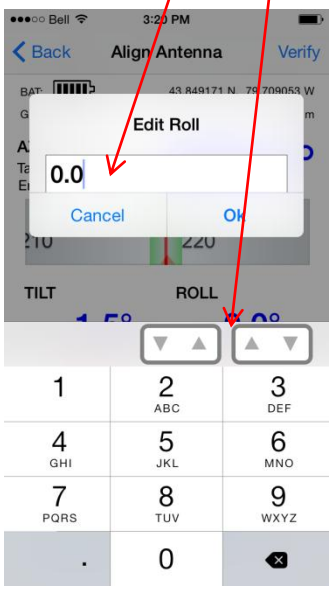
Step 1:
Select to enter TILT and ROLL



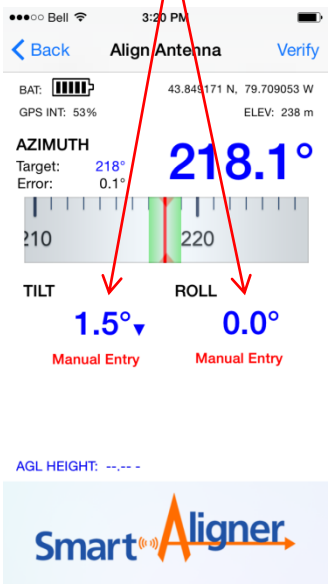
Step 2: Enter TILT
Note the arrows for UP/DOWN



Step 3: Enter ROLL
Note the arrows for orientation



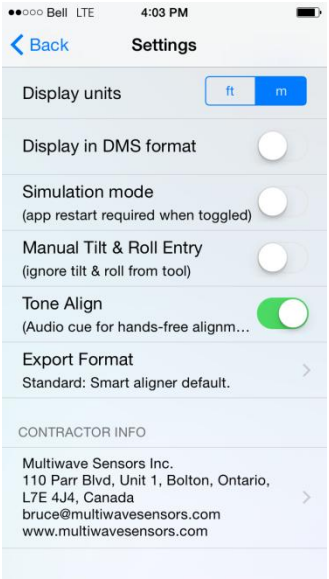
Step 4:
After Manual Entry



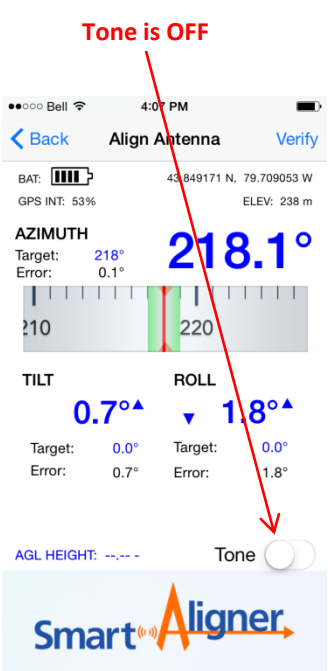
There will be a note shown on the Report that these values have been entered manually.

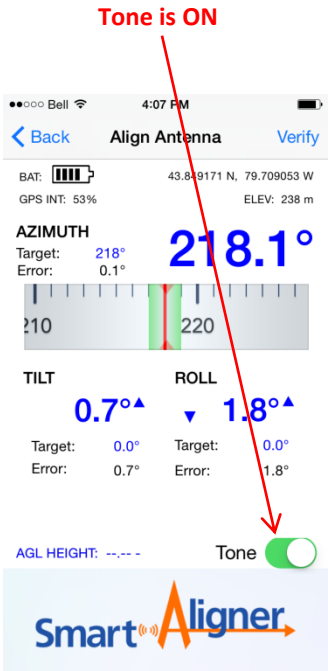
Tone Align (option is set in Settings)

When Tone Align is set the mobile device will beep loudly and at a fast pace when you have aligned the antenna to the Target Azimuth. It will always beep but will increase in tone and frequency as you get closer to the Target Azimuth. It is best to get familiar with the sounds before using it at the site.



Tone Align
Toggle to green to activate
A Tone selector will be displayed on the Align Antenna screen.

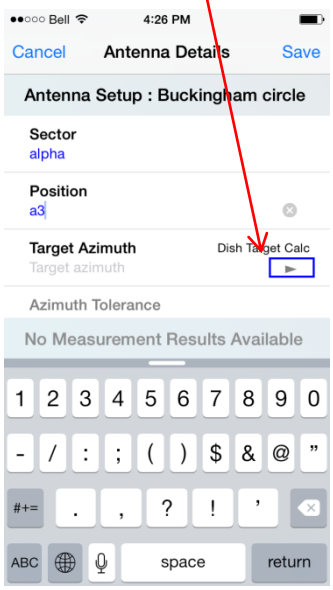




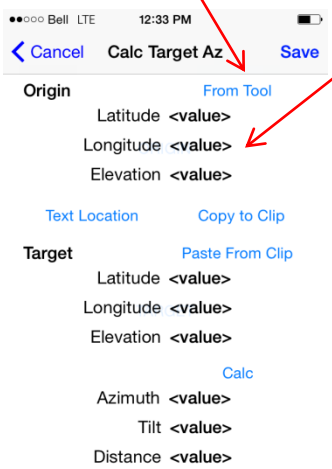
Dish Target Calculator

The Dish Target Calculator will determine an Azimuth and Tilt required for two antennas that need to be pointed to each other. This calculator is not limited to Dishes but can be used for any antenna pair. The calculations take the earth curvature into account to determine a more accurate Tilt. Latitude and Longitude values can be entered directly from the Tool or manually. Since the locations and heights of each antenna are required to calculate an Azimuth for each antenna (the Azimuths will be 180 degrees apart for facing each other) installers at each location can text their own location (Latitude and Longitude) and Height to each other so that each one calculates the azimuth.

Step 1:
Tap here to select the calculator

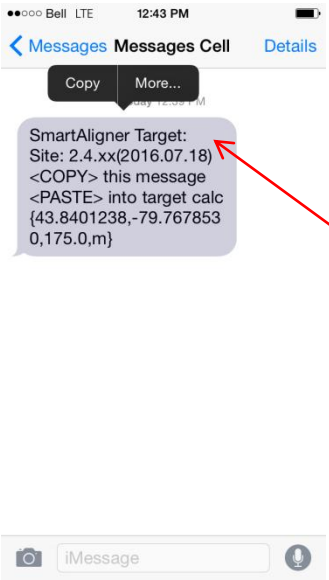


Step 2:
If you are at your location (Origin) with the Tool and you are getting an Azimuth you can get the location directly from the Tool.
Tap From Tool



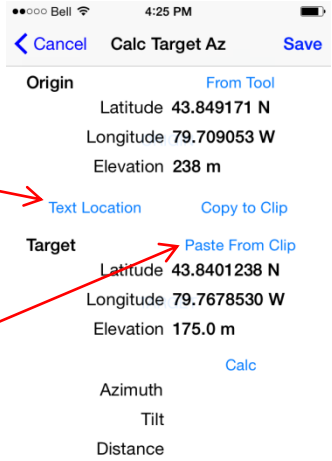
Step 2a:
You can also Tap this section and enter the information manually

Step 3:
Each installer can use Text Location to send the location information of their antenna to the each other. Texting will be different for iOS and Android. iOS shown

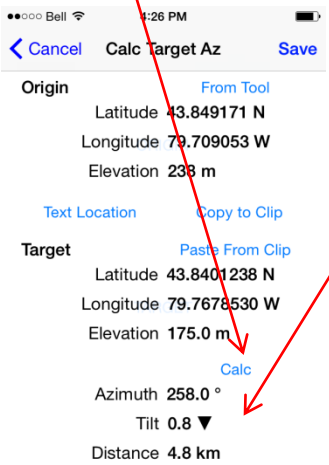


Select Text Location. Your messaging service will be activated with the following message and information. Text this information to the other installer. He can then COPY this information and then use Paste From Clip

Step 4:
Populate the Origin and Target location information



Step 5:
Tap Calc to calculate the Azimuth and Tilt



The Azimuth and Tilt information from the Calculator is copied directly to the **Antenna Details** screen

Step 6:
You have now set the Azimuth and Tilt for your antenna