

Regulatory Solutions AP Spreadsheet Instructions – This is a macro enabled excel file. This is to ensure that the drop down menus work for the antenna models and the technology type.

**WHEN YOU ARE DONE FILLING THIS SHEET OUT – SAVE IT AS A CSV FILE  
FORMAT TO UPLOAD TO OUR APP**

- **site\_name** - site to which this AP belongs. Should match a site name in the sites spreadsheet **OR if you do not have site names already in our system** you can give it a name here. Remember that more than one AP may be assigned to the same site name.
- **lat** - latitude of the AP (WGS84 - most GPS and mapping systems use WGS84 as the default) in degrees decimal format (i.e. 42.3865). These numbers should always be a positive value since we are north of the Equator.
- **lon** - longitude of the AP (WGS84 - most GPS and mapping systems use WGS84 as the default) These numbers should also be in decimal format and a negative number since we are in the Western Hemisphere (i.e. -92.54379)
- **ap\_name** – unique name of the AP
- **ap\_elevation** - elevation in feet above the ground (i.e. 100) no trailing units text.
- **radio\_model** - model of the radio you are using (i.e epmp 3000)
- **antenna\_model** - select the model of the antenna you are using from the dropdown menu. If it is not in the list, select “Other”
- **antenna\_name** - if you select an antenna model from the drop down menu this will self-populate, otherwise, enter the model number here
- **ap\_antenna\_gain** - if you select an antenna model this will self-populate, otherwise, enter the max gain (in dBi) here. Do not add a unit text, just the number value.
- **antenna\_id** - if you select an antenna model this will self-populate, otherwise, enter the gain here
- **tx\_power\_dbm** - transmit power from your AP measured in dBm. Do not put units text, just a number (i.e. 24)
- **frequency** - frequency on which you are transmitting in MHz Do not put units test and do not use a channel number (i.e. 5320)
- **channel\_width** - width of your TX channel in MHz number value only (i.e. 20)
- **azimuth** - the azimuth (direction it is pointed) of the antenna measured in degrees from true north. This will range from 0-359. (i.e. East would be 90, South - 180, West - 270, North - 0)

- **beamwidth** - the antenna beamwidth at the 3 dB point. This is the beamwidth most mfgs report. If they tell you it is a 60 degree antenna, then this would be 60.
- **avg\_noise\_floor\_dbm** - this is the noise floor you see at this AP. Typically your AP stats will tell you this when you log in. In 5Ghz suburban areas this will probably be between -75 and -85 db. Put this in as a negative number. (i.e. -80)
- **coverage\_radius\_mi** - this is the estimated max distance in miles you would serve someone on this AP. (i.e. 3)
- **max\_advertised\_download\_speed** - the maximum advertised download speed you offer from this AP in Mbps (i.e. 25)
- **max\_advertised\_upload\_speed** - the maximum advertised upload speed you offer from this AP in Mbps (i.e. 10)
- **residential** - If you can service residential customers from this AP put a 1. If not, put a 0.
- **business** - if you can service business customers from this AP, put a 1. If not, put a 0.
- **licensed**- if this AP is running on unlicensed frequencies (900, 2400, 5300, 5800) put unlicensed. If this AP is operating on the 3.5 GHz band and you do NOT have a PAL license, put gaa (case sensitive). If the AP is operating in the 3.5 GHz band and you do have a PAL license, put pal. If you are operating in 2.5GHz under an educational band license, put educational.
- **technology** - select either wifi, FPGA (Cambium PMP), Tarana, or LTE from the drop down list.

**Once you have completed the entries, save a copy of the spreadsheet as a CSV and upload to the RSI application.**