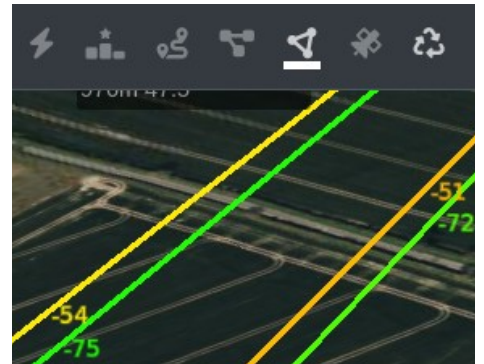


MANET planning

Quick reference

Step 1: Prepare a template

- Enter your hardware settings carefully
- For ground radios **keep the heights low eg. 1m**
- Gain for monopole antennas should be between 0 and 4dBi. **Use 2dBi if unsure.**
- For units use Signal to Noise Ratio (dB) and a sensitivity of 4dB (QPSK)
- The noise floor must match your local environment. **Use -100dBm if unsure.**
- Use the ITM model with 90% reliability and Knife edge diffraction
- Set the clutter to match your region. If you have no clutter, switch it off.
- Set the resolution to match your network size eg. Local / urban = 2m, rural = 30m
- Use a colour schema with a range from 40dB (Strong) down to 0dB (No signal)



Site / Tx

Name: lband

Network: planA

Coordinates: Decimal Degrees

Latitude: 50.78561 D.D

Longitude: -1.404381 D.D

Height AGL: 1 m Metres

Signal

Frequency: 1250 MHz

RF power: 2 W

Bandwidth: 20 MHz

Polarisation: Vertical Gain: 2.0 dBi

Azimuth: 0 Tilt: 0

Mobile / Rx

Latitude: 38.913

Longitude: 1.45

Height AGL: 1 m

Receive Gain: 2 dBi

Measured units: Signal to Noise Ratio (dB)

Sensitivity: 4 dB

Noise floor: -101 dBm

Model

Model: ITM / Longley-Rice (< 20GHz)

Reliability: 90%

Context: Average / Mixed

Diffraction: Knife edge

Clutter

Profile: Minimal.ct

Landcover: Enabled

Custom clutter: Disabled

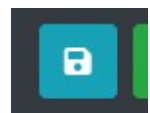
Output

Resolution: 10m / 32ft

Colour schema: SNR

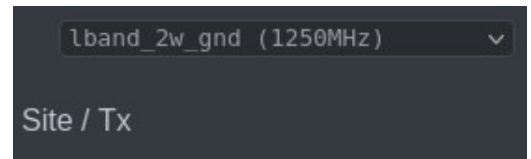
Radius: 1 Km

Save template ->



Step 2: Using a template

- Select the template from the box in the top left
- Activate the MANET tool from the top bar
- Click upon the map to place your first node, click to place another. SNR links will be drawn.
- Drag the nodes to rearrange them, click them to see details, right click them to delete them.



Step 3: Exporting your plan to a KMZ

- Open your archive, then choose the MANET network
- Check the checkbox next to the layer you want
- Click the map pin icon at the top of the archive to download the KMZ



Network MANET (139)

Show 10 entries

?	Name	Network	Date	Location	Frequency	Txf
<input checked="" type="checkbox"/>	planA	MANET (3 nodes)	2022-10-17 14:01:27.740	--	-	-
	planA	MANET (3 nodes)	2022-10-17 14:01:25.729	--	-	-

<https://cloudrf.com>