










RM Batch Files

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A new feature added to Radio Mobile in Version 10.8.2 was the ability to generate command line Batch Files that enable a sequence of radial Combined Cartesian plots to be performed from a listing of requirements.

-  **These files are in Tab separated text format, and run by opening with your `rmw***.exe` language file.**
-  **They are designed to be used for frequency coordination of radio repeaters, and are based on a maximum radial range plot performed over a square map.**
-  **The maps are created at a specified pixel resolution in metres over a radial range in km.**
-  **A path to SRTM data has to be specified, and Land cover can also be incorporated if a path to the data is defined.**
-  **The output files are pictures which are placed in a specified folder, and available with all support files in klm and png format.**
-  **If a coverage file name already exists in the specified folder the plot will be skipped – so you can keep the particular plot job in a list and only new plots are processed when opening a modified text file with Radio Mobile.**
-  **You have to calculate and enter the Radio System gain including line losses and antenna gain.**
-  **System Gain = Tx Power (dBm) – Tx Line Loss (dB) + Tx Ant Gain (dBi) + Rx Ant Gain (dBi) – Rx Line Loss (dB) – Rx Threshold (dBm)**
-  **Antenna height and pattern files have to be specified for the fixed unit with Azimuth and Tilt, and also the mobile antenna height.**

🚨 Setting the fixed unit 'Elevation ASL' to 0 metres as shown causes its elevation to be extracted from the SRTM data.

🚨 The plots are performed using Combined Cartesian at 1x1 pixel resolution in a single defined colour for each job.

🚨 'Tx Power for Sig file' entry if set to 0 watts disables Sig file generation, otherwise enter transmitter power to generate Signal data in dBm.

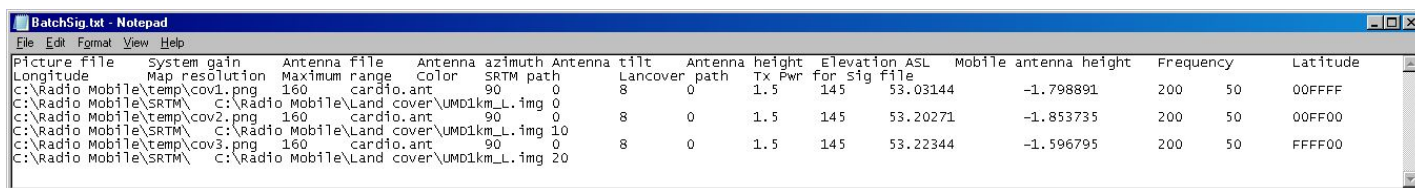
🚨 Batch file processing is independent of all your personal settings in Radio Mobile.

🚨 Note that a 100 metre resolution plot with 100km radial range will generate a 2000x2000 pixel plot picture!

🚨 There is no protection afforded to the batch files, so it is just possible that your computer could hang during processing!

As an illustration of the required format I have generated the following text file designed to generate coverage plots for the three units in my 'BaseU-3B' network consisting of three base units and the mobile selected as a Hand Held unit.

This picture shows my text file displayed with word wrap enabled which doesn't allow the correspondence of the data to headings to be seen.



By importing the text file into Excel the data is shown with all my folder paths including the local path to my Land cover data.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Picture file	System gain	Antenna file	Antenna azimuth	Antenna tilt	Antenna height	Elevation ASL	Mobile antenna height	Frequency	Latitude	Longitude	Map resolution	Maximum range	Color	SRTM path	Landcover path	Tx Pwr for Sig file
2	c:\Radio Mobile\temp\cov1.png	160	cardio.ant	90	0	8	0	15	145	53.03144	-1.798891	200	50	00FFFF	C:\Radio Mobile\SRTM	C:\Radio Mobile\Land cover\UMD1km_L.img	0
3	c:\Radio Mobile\temp\cov2.png	160	cardio.ant	90	0	8	0	15	145	53.20271	-1.853735	200	50	00FF00	C:\Radio Mobile\SRTM	C:\Radio Mobile\Land cover\UMD1km_L.img	10
4	c:\Radio Mobile\temp\cov3.png	160	cardio.ant	90	0	8	0	15	145	53.22344	-1.596795	200	50	FFFF00	C:\Radio Mobile\SRTM	C:\Radio Mobile\Land cover\UMD1km_L.img	20
5																	
6																	

As an alternative where Geodata and Land cover data are saved on separate computer drives rather than in the Radio Mobile folder, the paths can be seen below.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Picture file	System gain	Antenna file	Antenna azimuth	Antenna tilt	Antenna height	Elevation ASL	Mobile antenna	Frequency	Latitude	Longitude	Map resolution	Maximum range	Color	SRTM path	Lancover path	Tx Pwr for Sig file
2	c:\temp\cov1.png	150	cardio.ant	90	0	35	0	2	445	45.3	-73.3	200	100	00FF00	p:\geodata\srms1	p:\geodata\landcover*.loc	0
3	c:\temp\cov2.png	150	cardio.ant	90	0	5	0	2	445	46.3	-72.3	200	50	00FF00	p:\geodata\srms1	p:\geodata\landcover*.loc	25
4																	
5																	

The data can then be exported from Excel as a Tab separated text file after entry into the correct columns.

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