Technical Note

Pathloss File Conversion Methods





Pathloss File Conversion Methods

Opening RAF files

The radio file is in a .raf format (which is a text file). It can be viewed in any word editor (e.g. Microsoft Word, Notepad, WordPad, etc...)

- 1) Open the word editor, choose File Open and point to where the .raf file is stored.
- 2) Right click on the raf file and choose "Open With" and open it using any of the word editors.

Location of AntRad

To convert the .raf files to a Pathloss 5 format, you need to use the AntRad program which gets installed with Pathloss 5.

It can be found as a shortcut on the desktop or can be opened from the start menu.

Location of AntRad: C:\Program Files\Pathloss 5

Converting RAF to a Pathloss 5 format (rsd)

- 1) Open AntRad
- 2) In Equipment Type, choose "V5 radio files"

AR Pathloss 50 Radio data files						
Files	Equipment type	Convert	Curv	/es	Help	
MAN	🗸 V5 radio data					
MOD	V4 radio data					
RELE	Antenna data					
REVISION_NUM						
REVISION_DATE						
RADIO_ID						
PL50_RADIO_CODE						
APPLICATION_TYPE					nventiona	

3) Click on convert from the menu and choose raf ASCII to Binary rsd

AR Pathloss 50 Radio data files							
Files Equipment type	Convert	Curves	Help				
MANUFACTURER	ASCII raf to Binary rsd 💦 🕨 🕨		Selected files				
MODEL	V4 raf ASCII to V5 raf ASCII		Folder - Subfolders				
RELEASE_DATE							

After selecting "Selected files", point to the location where the files you want to convert are stored. You can choose single or multiple files to convert. The converted files (in rsd format) will be stored in the same location as the original files



Loading the pathloss files once converted, into Pathloss 5

- 1) Once you have created and started designing a link in Pathloss 5, go to the Transmission Analysis window.
- 2) Click on TR to apply the radio. A window will come up, click II to go to the radio index table
- 3) Click on to point to the directory where the converted radio files are stored
- 4) After selecting the directory, you can choose to add selected file(s) to the index or all the files in the directory



5) Click on Create Index to index the file(s). You only need to do this once, the radio files will remain in the index table.



Converting RAF to a Pathloss 4 format (mrs)

- 1) Open Pathloss 4
- 2) Go to configure and choose "Convert"



- 3) Choose "Microwave radio ASCII files"
- 4) You can choose single or multiple files to convert and click OK

Radio data file conversion m 🔀						
File suffix raf						
Method						
Convert single / multiple files						
Convert directory and sub directories						
OK Cancel						

5) Point to the location where the files you want to convert, are stored. The converted files (in mrs format) will be stored in the same location as the original files

Loading the pathloss files once converted, into Pathloss 4

- 1) Once you have created and started designing a link in Pathloss 4, go to the Worksheet window
- 2) Click on to apply the radio. Click Code Index
- 3) Select New Index and point to the directory where the converted radio files are stored
- 4) Click OK to index the files. You will need to do this step each time you start a new design



Converting from Pathloss 4 raf format to Pathloss 5 raf format

1) Open AntRad, select the convert tab, then select V4 raf ASCII to V5 raf ASCII (shown below).

🗚 Pathloss 50 Radio data files					
Files Equipment type	Convert Curves Help				
MANUFACTURER	ASCII raf to Binary rsd	+		^	
MODEL	V4 raf ASCII to V5 raf ASCII				
RELEASE_DATE					
DEMICION NUM	DEVICION NUM				

Select the files you wish to convert (can select multiple) then click save, the files will be saved as 2) Pathloss 5 raf files.

Converting from Pathloss 5 raf format to Pathloss 4 raf format

1) Open AntRad and select the Equipment type tab, then select V4 Radio data files (shown below).

AX Pathloss 40 Radio data files						
Files Equipment type Convert raf-mi	rs Curves Help					
MANU V5 radio data files		Manufacturer (char[31])	^			
MODE 🗸 V4 radio data files		Radio model (char [23])				
COMN Antenna data files		Comment (char[31])				
COMN	1	Comment (char[31])				
COMMENT_3		Comment (char[31])				
COMMENT_4		Comment (char[31])				

2) Click Files and Open, then select the pl5 raf file you would like to convert to pl4 (shown below).

AR Pathloss 40 Radio data files			3				
Files Equipment type Convert raf-mrs Curves Help							
Open		Manufacturer (char[31])	-				
Save raf file (ASCII)		Radio model (char [23])					
Save mrs file (binary)		Comment (char[31])					
New		Comment (char[31])					
INEW		Comment (char[31])					
Exit		Comment (char[31])					
COMMENT_5		Comment (char[31])					
COMMENT C		Commont (chor(21))	11				

3) Once the File has been loaded into AntRad, simply save the file by selecting Files – then save raf file (ASCII) (shown below)

ar P	athloss 40 Radio data files								
Files	Files Equipment type Convert raf-mrs Curves Help								
	Open	Manufacturer (char[31])	A						
	Save raf file (ASCII)	Radio model (char [23])							
Save mrs file (binary)		Comment (char[31])							
	New	Comment (char[31])							
	New	Comment (char[31])							
	Exit	Comment (char[31])							
1.1.15	IMENT 5	Comment (char(21))							

4) The file will now save as a pl4 raf file.