Veh File Generator Guide II

Part II of this guide will focus on using this Excel utility in conjunction with the 'GT3 World Series Mod'. The Enduracer 2.0 mod was also compatible with this.

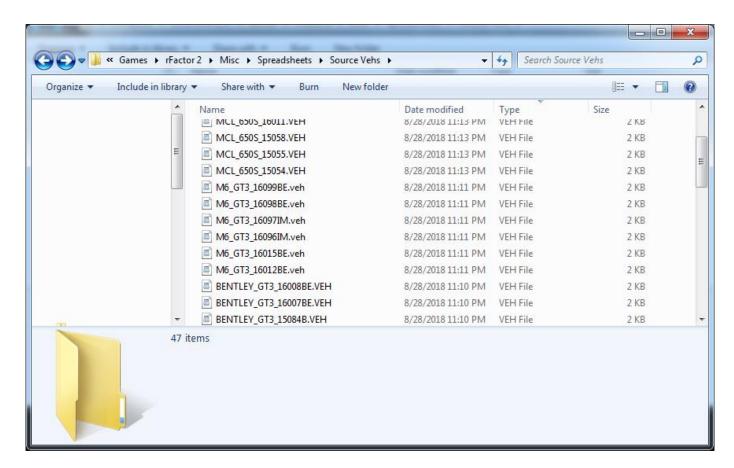
The nomenclature, or file naming format, of this mod's .veh file, is very different from that of the original contents included with the sim. The VBA scripting utility still tries to maintain the same ease of use, regardless.

In this guide, I will demonstrate how to gather 45 .veh files to generate an organized grid of 60 cars, with 2 of them sharing the same pit spot.

Requirements: Microsoft Excel 2007 or later is required to use to this utility. Macro must be enabled.

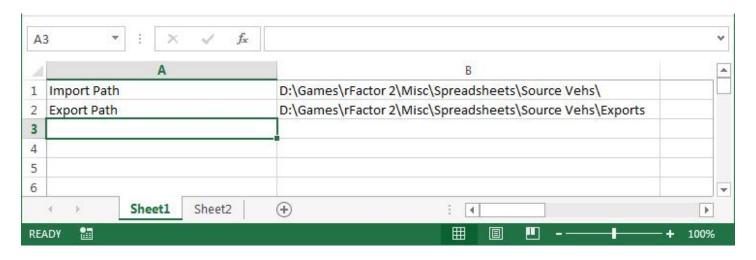
Step 1: Gather the desired .veh files of the 'GT3 World Series' and place them in the same directory

- In my case I was able to find 45 skins/liveries (i.e. 45 .veh files) that would be ideal enough to simulate an endurance race with 60 cars.
- Since I'm 15 cars short, the utility will generate the deficit, based on how I arrange the cells in the first column, described later on in the guide.



Step 2: Specify import and export directory of the .veh files

- This is done in Sheet1, at cells B1 and B2. Backslash, '\', at the end is optional.
 - o This is the only configuration we make in Sheet1. Head back to Sheet2 when complete.



Step 3: Specify the file prefixes in column 3 named, Import file Prefix

- The values (string), you specify is case sensitive, and must include any underscore, space characters or any other characters, before or after, not a part of the 'veh ID' or file extension.
 - This is required, if you want to import the "source veh", identification, automatically from the directory.
- In the case of this GT3 Word Series mod, they comprised of the following.

```
BENTLEY_GT3_ (or BENTLEY_)

M6_GT3_
488_GT3_
_HURACAN_GT3

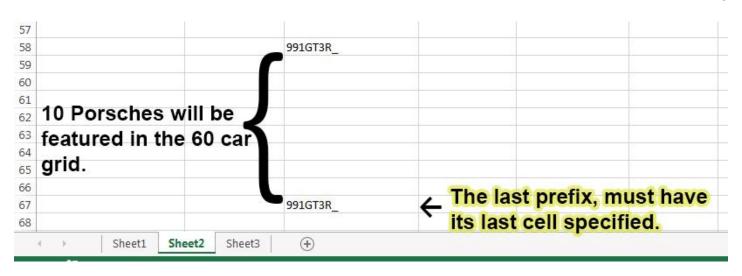
MCL_650S_
_AMG_GT3

991GT3R
```

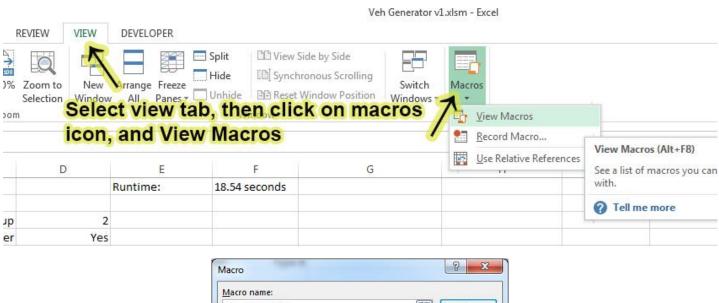
Step 4: Arrange prefixes based on how many car models you want to be represented in the 60 car grid.

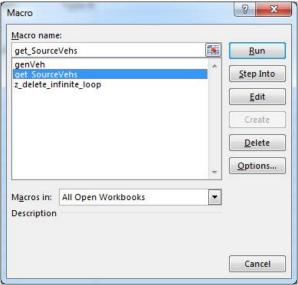
- The images below demonstrate the logic of arranges the prefixes.
- In summary, if you want a car to be represented 10 times, make sure there are at least 9 empty cells below it OR they have the same matching prefix.
 - For the last prefix, make sure you manually write out twice, otherwise the script won't know how many cars of that prefix, you wanted to add, and will only generate one car for it.

\mathcal{A}	A	В	C	D	E	F
1	Duplicate source veh	Yes	Unique DefaultLivery	Yes	Runtime:	17.81 seconds
2	Guess Veh #	No	Generate Veh #	Yes		
3	Generate Pitgroup	Per Import Prefix	Cars per pit group	2		
4	Desc. Prefix Delimiters	#, -	Force assign delimiter		Overwrite FT Name	No
5	Export Table	Yes	Export PitGroup Order	Yes	Export Format	Type I
6						
7						
8	Source veh #	Veh#		Export file Prefix	PitGroup Prefix	PitGroup Suffi
9			BENTLEY_GT3_			
10	4 maximum v	eh files, 🖍				
11	for the Bently	202				
13	generated.		M6_GT3_			
14	generateu.		M6_GT3_	•	120 120 12	
15			M6_GT3_	You	don't need	to
16			M6_GT3_	spec	ify these	
17			M6_GT3_		1.5	_
18			M6_GT3_		ditional row	10111
19			M6_GT3_	but i	t greatly red	duces
20			M6_GT3_		hance of m	
21			M6_GT3_	260200000000000000000000000000000000000		
22			M6_GT3_	an e	ntry mistak	е.
23			488_GT3_			
24						
25						
26						
27						
28						
29						
30						
31						
33			ULIDACAN CT2			
34	In the cas	e of the 🧷	_HURACAN_GT3			
35		nini, be sure				
36	573	S S				
37	the unde	rscore at the				
38	front is in	cluded.				
39						
40						
41			MCL_			



Step 5: Use macro, 'get_SourceVeh', to obtain, the source file's identification, and vehicle numbers

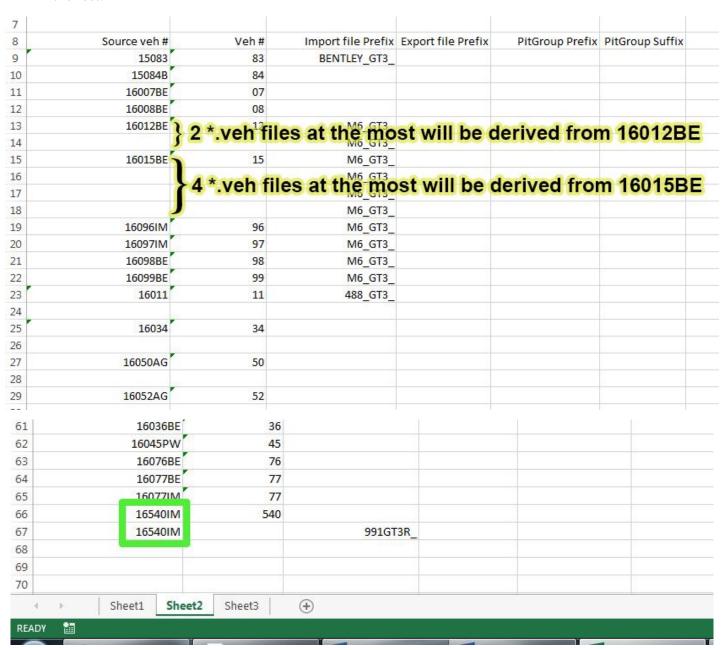




8	Source veh #	Veh#	Import file Prefix	Export file Prefix	PitGroup Prefix
9	15083	83	BENTLEY_GT3_		
10	15084B	84			
11	16007BE	07			
12	16008BE	08			
13	16012BE	12	M6_GT3_		
14	16015BE	15	M6_GT3_		
15	16096IM	96	M6_GT3_		
16	16097IM	97	M6_GT3_		
17	16098BE	98	M6_GT3_		
18	16099BE	99	M6_GT3_		
19			M6_GT3_		
20			M6_GT3_		
21			M6_GT3_		
22	400		M6_GT3_		
23	16011	11	488_GT3_		
24					
25	16034	34			
26					
27	16050AG	50			
28					
29	16052AG	52			
30					
31	16333BE	333			
32					
33	160069	69	_HURACAN_GT3		
34	16016BE	16			
35	16019BE	19			
36	16029BE	29			
37	16100BE	100			
38	16101BE	101			
39	1010151	101			
40					
41	650S_15054	54	MCL		
42	650S_15055	55	INICL_		
43	650S_15058	58			
44	650S_16011	11			
45	650S_16037	37			
4)	Sheet1 Sheet2	Sheet3	(+)		

Step 6: Re-arrange column 1, Source Veh, as desired

- The following image describes the logic of arranging the Source Veh column, it's pretty much the same the import file prefix column.
 - o The last source veh ID, in column 1, must be manually written out again, if you wish to duplicate it.
 - The script will do it for you automatically.
- Before you execute the next macro, make sure there's a numerical value to the cells on the right, or cell
 B2 is set to 'Yes'.
- Note, the IDs are only explicitly specified, if file exists in the import directory; macro will take care of the rest.



Step 7: Specify attributes in column (D8:K8) or adjust options (A1:F5) and execute macros

• The rest of the column may be left blank. You may head straight to *Step 12*, and then execute the macro to export the .veh files for the 60 car grid.

Step 8: Specify export file prefix

- Leaving this blank, will use the value specified in the import file prefix column.
- If two *.veh files with the same file names share the same root vehicle folder, in this case:

rFactor 2\Installed\Vehicles\STK (....)\1.20 rFactor 2\Installed\Vehicles\STK (....)\1.20_1

- o The 'older' version located in the folder, \1.20\, may not be permitted to show up in game.
- o The 'newer' version, i.e. 1.20_1, will not show up in rFactor 2 Mod Package manager.
- o To overcome this latter issue, delete or move the entire \1.20\, folder. It may re-download itself, when you start the game with internet connection, mod is tied to steam workshop.

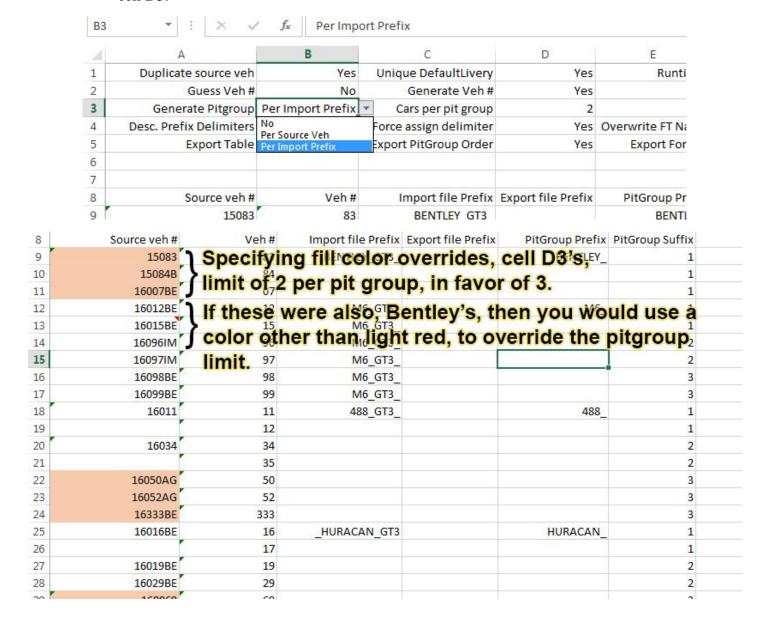
Step 9: Specify pit group prefix

- By the game's default this is, the word, Group, which is then succeeded by an integer. I prefer using the car model's name, followed by an underscore.
 - o You may go ahead and simply write 'Group' at cell E9. No need to write redundant values bellow.
- Not specifying this, will resort in the veh files only having the suffix.

8	Source veh #	Veh#	Import file Prefix	Export file Prefix	PitGroup Prefix	PitGroup Suff
9	15083	83	BENTLEY_GT3_		BENTLEY_	
10	15084B	84				
11	16007BE	07				
12	16008BE	08				
13	16012BE	12	M6_GT3_		M6_	
14			M6_GT3_			
15	16015BE	15	M6_GT3_			
16			M6_GT3_			
17			M6_GT3_			
18	255		M6_GT3_			
19	16096IM	96	M6_GT3_			
20	16097IM	97	M6_GT3_			
21	16098BE	98	M6_GT3_			
22	16099BE	99	M6_GT3_			
23	16011	11	488_GT3_		488_	
24						
25	16034	34				

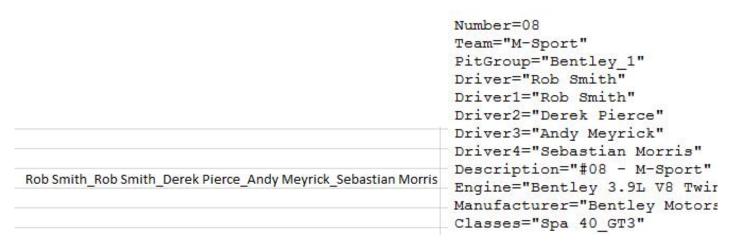
Step 10: Pitgroup suffix assignment may be automated by the VB script

- If you wish to assign this manually, make sure cell B3 is set to 'No'.
- If you would like the VBA script to assign this, then set B3 to 'Per Import Prefix'.
 - Since the filename of the 'GT3 World Series Mod' is derived from the source ID, and contains the vehicle numbers, 'Per Source Veh', is not a suitable option, as you'll likely have only 1 car per pit spot, if you set cell D3 to a number greater than 1.
 - o Up to 3 cars may be assigned per pit spots.
 - o If two vehicle rows are adjacent to each other, and they have a different derived source files, you may assign them any 'fill color' you want, to make them share the same pit spot.
 - o This override also works, when you wish to go beyond the 'cars per pit group' limit, specified in cell D3.



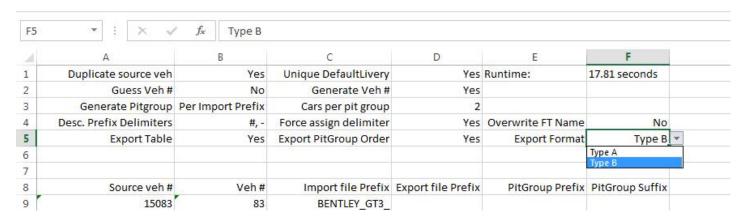
Step 11: Fill in optional columns (G through K) with, desired, updated attributes.

- If you choose not fill the last 4 columns, the script will extract the value from the source .veh file and use those.
- Do not include any quotation marks.
- You don't need to repeat values, if 'Import File Prefix' is the same.
 - The only exception is the Classes column. Similar behavior to Pitgroup Prefix column.
- I recommend not including any space characters before or after any strings/words/descriptions.
- You may specify multiple drivers in the driver column. Make sure they're separated by an underscore,
 as pictured. Primary driver is specified at least twice.



Step 12: Specify export format and other automation options

- In regards for the 'GT3 World Series' mod, cell F5, must be set to Type B, since the Source veh # is different from the Veh# column.
 - For standard non-mod vehicles, Type A, is most likely the appropriate option, i.e.
 Import_File_Prefix + Vehicle Number.



Cell B1, Duplicate Source Veh:

- o If you don't want to generate a new file matching the Source Veh ID of the source file, then set this to no. Pit group generator will take this into account when assigning the corresponding numbers.
- o Since 45 of 60 rows, are original source veh, this should be set to yes.

• Cell D1, Unique DefaultLivery:

o If you don't intend to modify .DDS file, with an image editing software of your choice, to match that of the veh # in column B, then set this to no.

Cell B2, Guess Veh #:

If you chose not to use the macro, get_SourceVehs, then you may use this to acquire the veh # of
the source files, otherwise set to no.

Cell D2, Generate Veh #:

- o Generates veh #, in column B, that haven't been specified.
 - o If you're using Type A export format, and no veh # is specified in column B, then make sure Column A only has numeric values.

• Cell B3, Generate Pitgroup:

- Per source veh: Not a viable for the 'GT3 World Series Mod', since only 15 out of 60 source veh
 IDs are derived from another. Pit group automation counter resets each time its comes across a different or non-empty cell.
- Per import prefix: Will avoid resetting pitgroup automation counter, unless a different import file prefix (car model) is encountered, or pit group limit is exceeded..

• Cell D3, Cars per pit group:

o 1, 2, or 3 cars per pit sport.

1	Duplicate source veh	Yes	Unique DefaultLivery	Yes	Runtime:	17.81 seconds
2	Guess Veh #	No	Generate Veh #	Yes		
3	Generate Pitgroup	Per Import Prefix	Cars per pit group	2		
4	Desc. Prefix Delimiters	No Per Source Veh	Force assign delimiter	Yes	Overwrite FT Name	No
5	Export Table	Per Import Prefix	Export PitGroup Order	Yes	Export Format	Type B
6		100700111111	144			

Cell B4, Desc. Prefix Delimiters:

- o This relates to number identification symbol you may want to use in column I, 'Description Prefix'.
 - o The, hyphen is there for demonstrative purposes. If you wished to use both hyphen, -, and the pound symbol, #, in column I, it would let the script know why it's there. They are separated by commas. Any amount of space is optional, script should ignore it.

- The pound symbol listed first, means the script will assume it's the default, if you don't specify any delimiter in Column I.
- o If you leave this option blank and column I, script will try to guess the location of the delimiter in the imported veh file.
- Cell D4, Force Assign Delimiter:
 - If you set this to no, and don't include the # symbol, in column I, the script will not add anything to
 it, except the Veh #.
- Cell F4, Overwrite FT Name:
 - This will overwrite, FullTeamName=, inside the veh file, with that of Team=, specified in column H.
- Cell B5, Export Table:
 - o After executing the next macro, Sheet2 will be exported along with the 60 .veh file
- Cell D5, Export Pit Group Order:
 - Will export a text file, with a formatted pit group data, that should be pasted in the track's .GDB file
 or event's .rFM file.
 - o The images below shows the output of two possible configuration options.

```
Pit_Group_Order.txt - Notepad
File Edit Format View Help
PitGroupOrder
         PitGroup = 2,
                        BENTLEY_1
                     2,
                        BENTLEY_2
         PitGroup =
         PitGroup
                        M6_1
         PitGroup
                        M6_2
                         M6 3
         PitGroup
         PitGroup
         PitGroup
         PitGroup
         PitGroup
         PitGroup
                     2 2 2
         PitGroup
         PitGroup
         PitGroup
                         HURACAN 1
         PitGroup
                         HURACAN 2
         PitGroup
                         HURACAN_3
                         HURACAN_4
         PitGroup
         PitGroup
                         MCL_1
         PitGroup
                     22222
                         MCI
         PitGroup
         PitGroup
         PitGroup
         PitGroup
                     2
         PitGroup
                     2, 2, 2, 2,
         PitGroup
         PitGroup
         PitGroup
         PitGroup
                     2,
                         991
         PitGroup =
         PitGroup =
                         991
         PitGroup
```

```
Pit Group Order.txt - Notepad
File Edit Format View
                      Help
PitGroupOrder
        PitGroup =
        PitGroup
        PitGroup
         PitGroup
         PitGroup
         PitGroup
         PitGroup
         PitGroup
         PitGroup
         PitGroup
         PitGroup
         PitGroup
         PitGroup
         PitGroup
                        15
         PitGroup
         PitGroup
        PitGroup =
```

Step 13: Swap tool

- The button, Swap, on cell F3, allows you to swap the location of 2 different cells.
 - Press and hold the Ctrl Button, then left click on the 2nd cell; then press swap.
 - O This is primarily intended for reorganizing column A, Source Veh IDs.

Step 14: Execute macro, genVeh

- The table will look similar to the following image before the execution.
- It takes around 35 seconds for my AMD Phenom to execute the 60 row macro; the first time.

4	A	В	С	D	E	F	G	Н	I	J	K
i	Duplicate source veh	Yes	Unique DefaultLivery	Yes	Runtime:	12.78 seconds					
2	Guess Veh #	No									
3	Generate Pitgroup	Per Import Prefix									
4	Desc. Prefix Delimiters		Force assign delimiter		Overwrite FT Name	No					
5	Export Table		Export PitGroup Order		Export Format	Type B					
6											
7											
8	Source veh #	Veh#	Import file Prefix	Export file Prefix	PitGroup Prefix	PitGroup Suffix	Driver	Team	Description Prefix	Classes	Catego
9	15083	83			BENTLEY	The state of the s			Bentley Continental GT3 ◇		Spa 24 hrs, Bentley Continental GT3
10	15084B	84			DETITION_				benney commentar or s	opu_ora	opa 2 mis, benney commentar or a
11	16007BE	07									
12	16008BE	08				Roh Smith De	erek Pierce_Andy Meyrick_Sebastian Morris				
13	16012BE	12			M6	NOD SIMILITED	erek Fierce_Andy Meyrick_Sebustian Morris		BMW M6 GT3 <>		Spa 24 hrs, BMW M6 GT3
14	1001200	12	M6_GT3_		1410_				DIVIVE INIO 013		Spa 24 1113, Billian Mio 013
15	16015BE	15									
16	1001300	13									
			M6_GT3_								
17			M6_GT3_								
18			M6_GT3_								
19	16096IM	96									
20	16097IM	97									
21	16098BE	98									
22	16099BE	99									
23	16011	11	488_GT3_		488_				Ferrari 488 GT3 ⇔		Spa 24 hrs, Ferrari 488 GT3
24											
25	16034	34									
26											
27	16050AG	50									
28											
29	16052AG	52									
30				1							
31	16333BE	333									
32				3							
33	160069	69	_HURACAN_GT3		HURACAN_				Lamborghini Huracan GT3 ⇔		Spa 24 hrs, Lamborghini Huracan
34	16016BE	16									
35											
36											
37	16019BE	19									
88	16029BE	29									
39	16100BE	100									
10	16101BE	101									
41	650S 15054	54	MCL		MCL				McLaren 650S GT3 ⇔		Spa 24 hrs, McLaren 650S
42	650S 15055	55			_						,
43	650S 15058	58									
14	2222_2000	50									
45	650S 16011	11									
-	0000_10011	Sheet2 Sheet3	·						: (4)		

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