

BoM Comparator User Guide

This script will display the added and deleted parts between 2 BoMs. It does not indicate part quantity changes of an already present item in both BoMs.

1. Download version Python 3.10

<https://www.python.org/downloads/release/python-3100/>

Files

Version	Operating System	Description	MD5 Sum	File Size	GPG
Gzipped source tarball	Source release		729e36388ae9a832b01cf9138921b383	25007016	SIG
XZ compressed source tarball	Source release		3e7035d272680f80e3ce4e8eb492d580	18726176	SIG
macOS 64-bit universal2 installer	macOS	for macOS 10.9 and later (updated for macOS 12 Monterey)	8575cc983035ea2f0414e25ce0289ab8	39735213	SIG
Windows embeddable package (32-bit)	Windows		dc9d1abc644dd78f5e48edae38c7bc6b	7521592	SIG
Windows embeddable package (64-bit)	Windows		340408540eeff359d5eaf93139ab90fd	8474319	SIG
Windows help file	Windows		9d7b80c1c23cfb2cecd63ac4fac9766e	9559706	SIG
Windows installer (32-bit)	Windows		133aa48145032e341ad2a000cd3bff50	27194856	SIG
Windows installer (64-bit)	Windows	Recommended	c3917c08a7fe85db7203da6dcaa99a70	28315928	SIG

2. Download the BoM Manager zip from SharePoint:

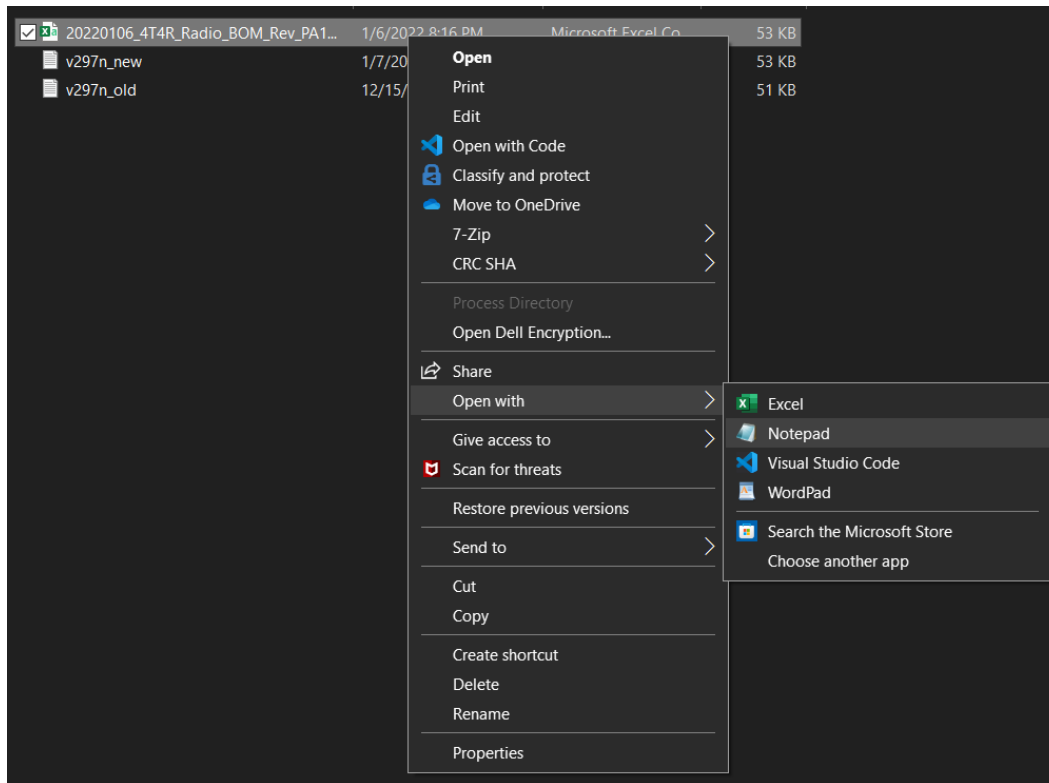
<https://dell.sharepoint.com/:f:/s/MobilePhoenixProgram/Eqk-tdi4JSJDi2ahG5DMLpkB0wJ9NBSyQ-MnH9vLROJwQ?e=ooVG4D>

3. Place the 2 BoMs in the Cadence BoM directory, in the BoM Manager directory

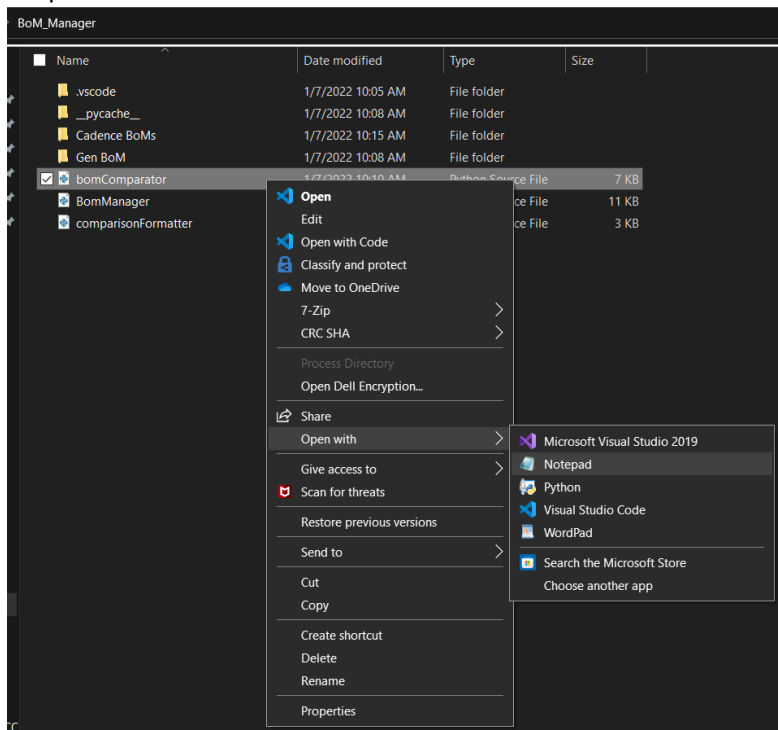
Huzaifa_Ahmad > Downloads > BoM_Manager				
<input type="checkbox"/>	Name	Date modified	Type	Size
<input type="checkbox"/>	.vscode	1/7/2022 10:05 AM	File folder	
<input type="checkbox"/>	__pycache__	1/7/2022 10:08 AM	File folder	
<input checked="" type="checkbox"/>	Cadence BoMs	1/7/2022 10:10 AM	File folder	
<input type="checkbox"/>	Gen BoM	1/7/2022 10:08 AM	File folder	
<input type="checkbox"/>	bomComparator	1/7/2022 10:10 AM	Python Source File	7 KB
<input type="checkbox"/>	BomManager	1/7/2022 3:01 PM	Python Source File	11 KB
<input type="checkbox"/>	comparisonFormatter	1/7/2022 3:01 PM	Python Source File	3 KB

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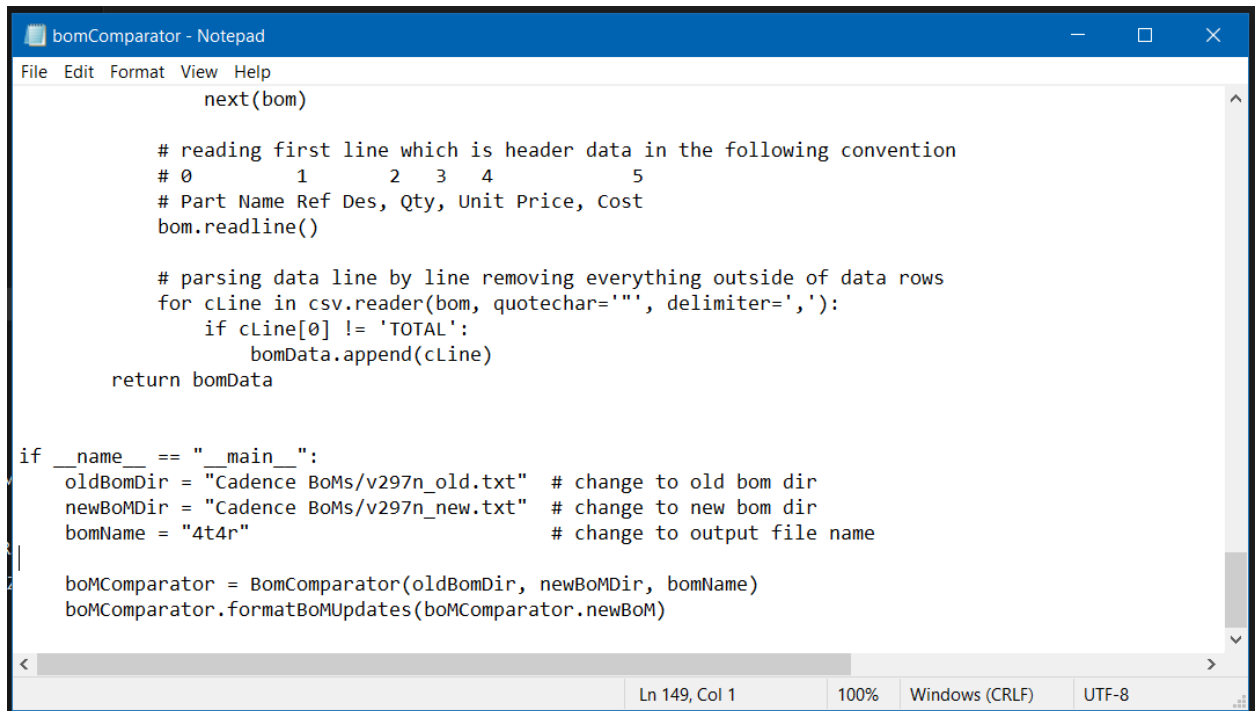
4. If the BoMs are CSVs, save them as txts by opening with notepad and using save as, add `_old` and `_new` suffixes to the txt files as shown below.



5. Open the `bomComparator.py` file and edit the file directory's and BoM names at the end of the script



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```
next(bom)

# reading first line which is header data in the following convention
# 0      1      2      3      4      5
# Part Name Ref Des, Qty, Unit Price, Cost
bom.readline()

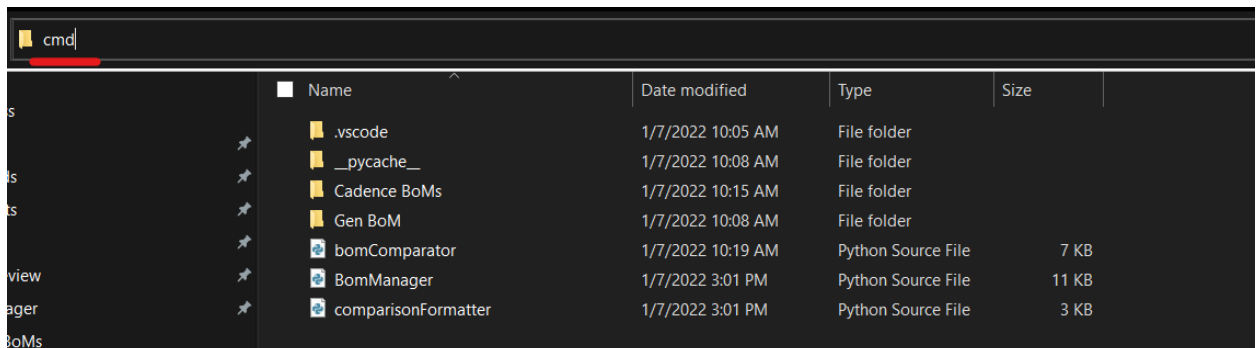
# parsing data line by line removing everything outside of data rows
for cLine in csv.reader(bom, quotechar='"', delimiter=','):
    if cLine[0] != 'TOTAL':
        bomData.append(cLine)
return bomData

if __name__ == "__main__":
    oldBomDir = "Cadence BoMs/v297n_old.txt" # change to old bom dir
    newBomDir = "Cadence BoMs/v297n_new.txt" # change to new bom dir
    bomName = "4t4r" # change to output file name

    bomComparator = BomComparator(oldBomDir, newBomDir, bomName)
    bomComparator.formatBOMUpdates(bomComparator.newBoM)
```

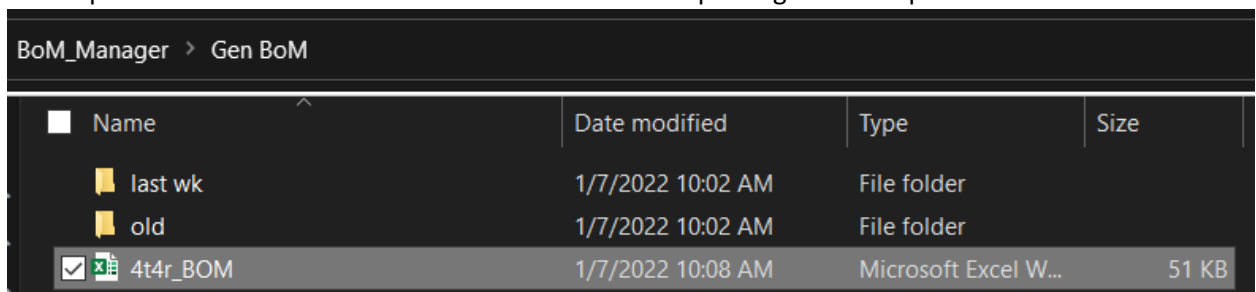
The lines that need altering are commented.

- To run the script type cmd in the file explorer search bar of the BoM Manager directory and hit enter



- In the command window type the following and hit enter
py bomComparator.py

The output file will be in the Gen BoM folder and have the prefix given in step 5



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The first sheet of the file will be the new bom untouched. The second sheet will have all new, deleted parts, and unchanged parts indicated with colour and a letter. The Jth row can be deleted.

Red: Deleted item

Green: Added item

No Colour: Unchanged item

CAP_PHOE C9_TXGA_Pref*	15	N5231	?	UMK105C?	N5231	U
CAP_PHOE C37_TXGA_Pref*	4	R8M5W	?	GJM1555C?	R8M5W	D
CAP_PHOE C38_TXGA_Pref*	4	04FK8	?	GJM1555C?	04FK8	U
CAP_PHOE C2_TXGA_Pref*	4	TKY26	?	GRM188R?	TKY26	U
CAP_PHOE C37_TXGA_Pref*	4	7VHX9	?	GJM1555C?	7VHX9	U
CAP_PHOE C4_TXGA_Pref*	8	9GNWM	?	GJM1555C?	9GNWM	U
CAP_PHOE C7_A0,C8_Pref	20	0WNYT	?	GRM033C?	0WNYT	U
CAP_PHOE C51_DC0_Pref	1	61WM2	?	C0603X6S?	61WM2	U
CAP_PHOE C1_TXBA0_Pref	20	3R6D6	?	GRM0335C?	3R6D6	U
CAP_PHOE C56_DC0_Pref	1	GH1G1	?	GRM033C?	GH1G1	U
CAP_PHOE C4_F0_DIC_Pref	8	NPR--NEEI?	?	GRM033C?	NPR--NEEI	U
CAP_PHOE C4_DIG0,C_Pref	4	2XJJ9	?	C1005X7R?	2XJJ9	U
CAP_PHOE C49_CG-C_Pref	14	5P7XC	?	04026C10?	5P7XC	U
CAP_PHOE C31_RXGA_Pref	4	0TGTP	?	GJM1555C?	0TGTP	U
CAP_PHOE C105_DC1_Pref	5	2VYCF	?	C0402C10?	2VYCF	U
CAP_PHOE C30_RXGA_Pref	13	M4K70	?	GRM155R?	M4K70	U
CAP_PHOE C13_TXGA_Pref	4	V2JY5	?	C0402C10?	V2JY5	D
CAP_PHOE C7_TXGA_Pref	8	N5231	?	UMK105C?	N5231	D
CAP_PHOE C5_CG,C6_Pref	10	NM636	?	GRM155R?	NM636	U
CAP_PHOE C9_RXGA_Pref	4	JMX0T	?	GCM1555C?	JMX0T	U
CAP_PHOE C3_F0_DIC_Pref	31	VDP6K	?	GRM155C?	VDP6K	U
CAP_PHOE C1_CG,C2_Pref	81	4JJ5W	?	GRM155Z?	4JJ5W	U
CAP_PHOE C34_RXGA_Pref	12	NPR--NEEI?	?	GCM1555C?	NPR--NEEI	D
CAP_PHOE C270_DC1_Pref	2	19TPR	?	04025C33?	19TPR	N
CAP_PHOE C158_F0_I_Pref	7	NPR--NEEI?	?	GRM155C?	NPR--NEEI	N
CAP_PHOE C0_DC1_C_Pref	6	DIV55	?	C0402C47?	DIV55	U