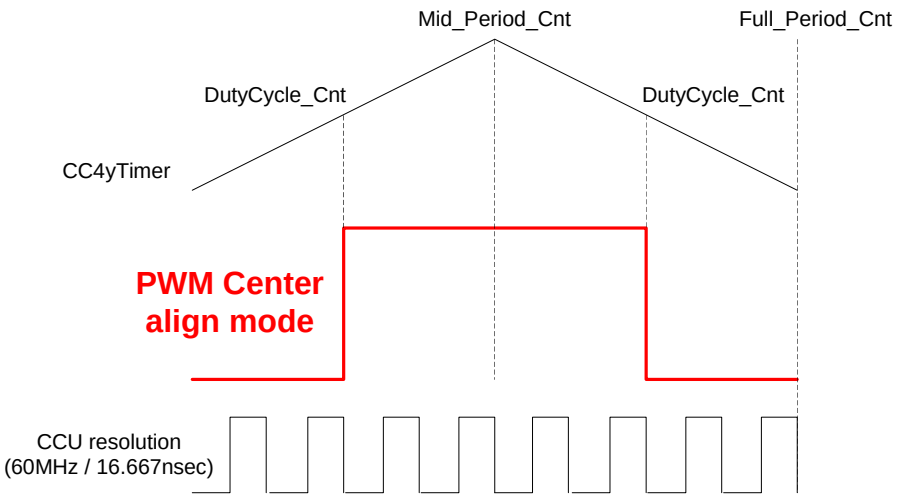

Eg. Required PWM frequency is 1.5Khz (Period = 666.667usec) at 50% duty cycle.

Step1: Calculate Timer Period Value for 666.667usec

Full_Period_Cnt = PWM_Period / CCU_Resolution_Period
= 666.667usec / 16.667nsec
= 40000

Mid_Period_Cnt = Full_Period_Cnt / 2
= 40000 / 2
= 20000

Therefore, Timer Period Value (CC4yPR)

CC4yPR = Mid_Period_Cnt - 1
= 20000 - 1
= **19999 or 0x4E1F**

Step 2: Calculate Timer Compare value for Duty cycle of 50%

DutyCycle_Cnt = (Full_Period_Cnt x Duty cycle%) / 2
= (40000 x 50%) / 2
= 10000

Therefore, Timer Compare Value (CC4yCR)

CC4yCR = DutyCycle_Cnt – 1
= 10000 -1
= **9999 or 0x270F**