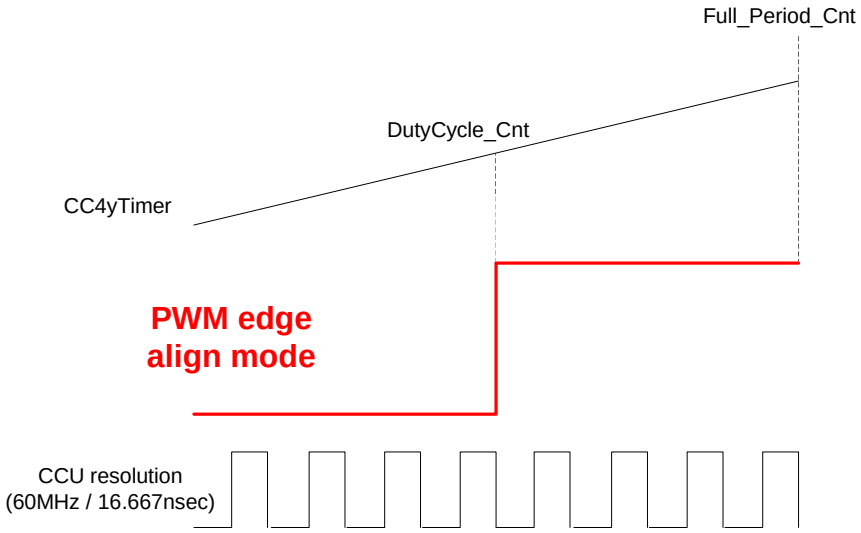


Eg. Required PWM frequency is 1.5Khz (Period = 666.667usec) at 50% duty cycle.

**Step1: Calculate Timer Period Value for 666.667usec**

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

Therefore, Timer Period Value (CC4yPR)

CC4yPR = Full_Period_Cnt – 1
= 40000 – 1
= **39999 or 0x9C3F**

**Step 2: Calculate Duty cycle of 50%**

DutyCycle_Cnt = Full_Period_Cnt x Duty cycle%
= 40000 x 50%
= 20000

Therefore, Timer Compare Value (CC4yCR)

CC4yCR = DutyCycle_Cnt – 1
= 20000 – 1
= **19999 or 0x4E1F**