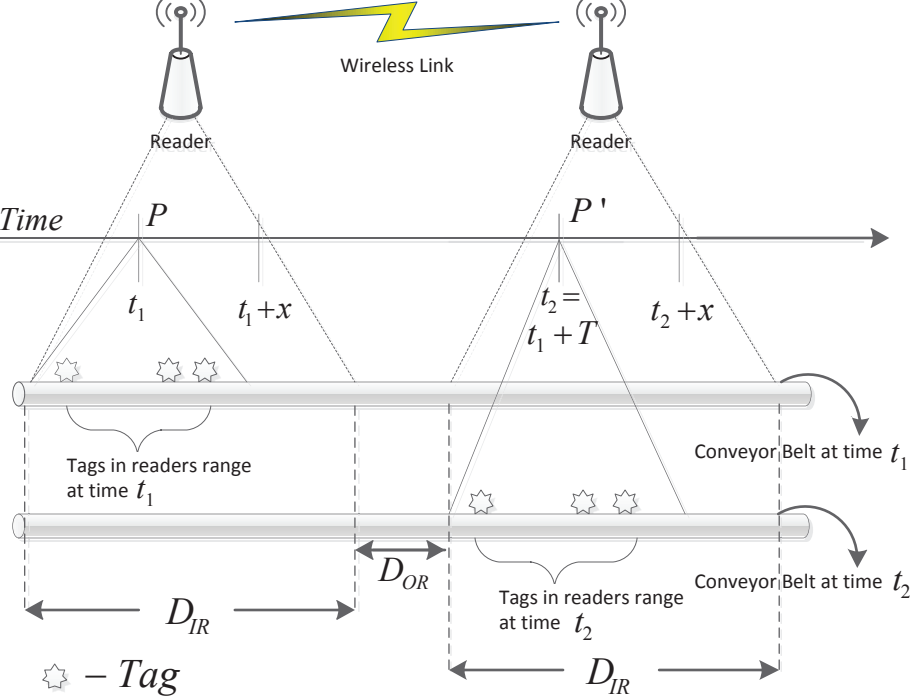




v = velocity of belt

D_{IR} = Range of reader on belt

D_{OR} = Distance between ranges of 2 readers

T = Time taken to go from pt. P to P'

$$t_2 - t_1 = T = \frac{D_{IR} + D_{OR}}{v}$$