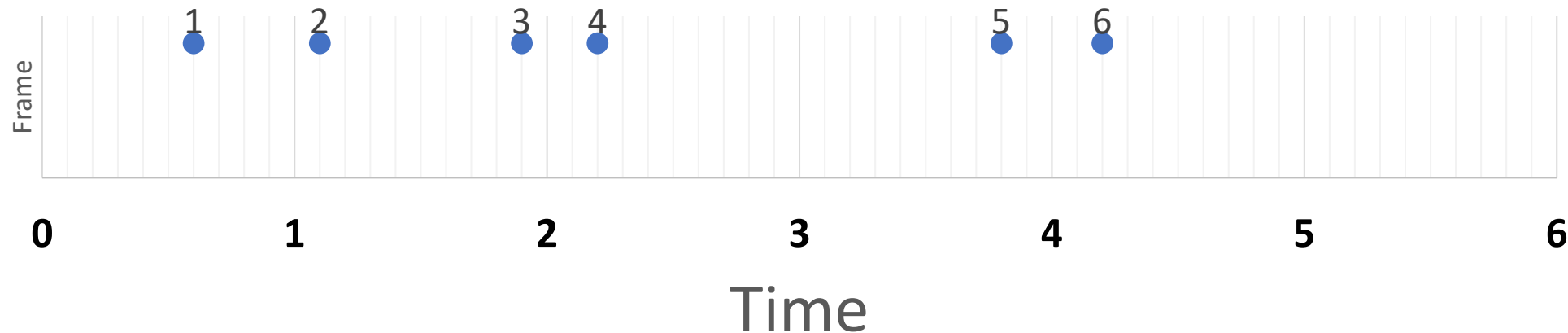


Consider the figure below, which shows the arrival of 6 frames for transmission at different nodes at times $t = \langle 0.6, 1.1, 1.9, 2.2, 3.8, 4.2 \rangle$ and each transmission requires exactly one time unit.

Suppose all nodes are implementing Carrier Sense Multiple Access (**CSMA**). Suppose that the time from when a message transmission begins until it is beginning to be received at other nodes is 0.4 time units.

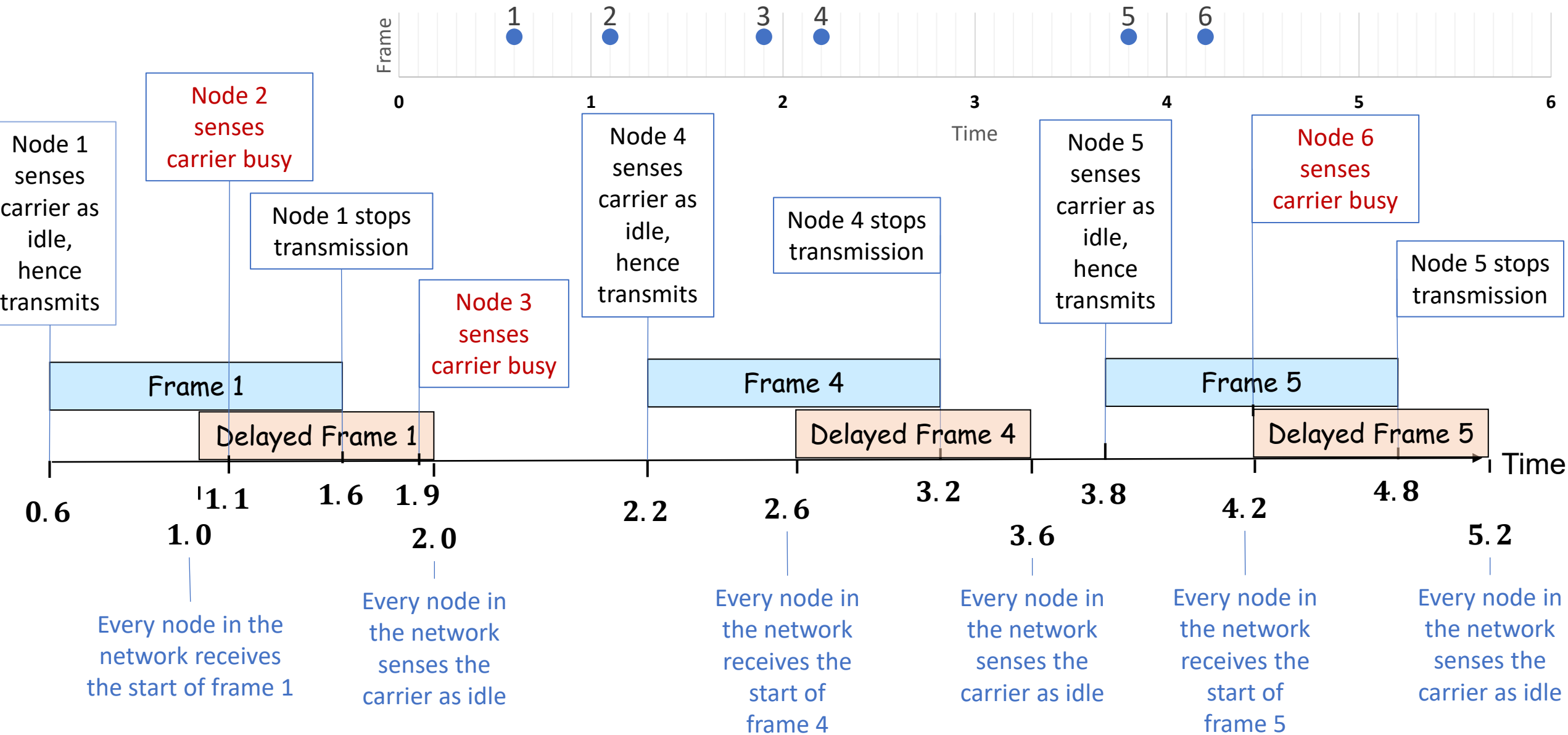
(Thus if a node begins transmitting a message at $t=2.0$ and transmits that message until $t=3.0$, then any node performing carrier sensing in the interval $[2.4, 3.4]$ will sense the channel busy.)

Assuming no retransmission happen till $t=6.0$, Let us Look at the behavior!



$t = \langle 0.6, 1.1, 1.9, 2.2, 3.8, 4.2 \rangle$

Propagation delay = 0.4

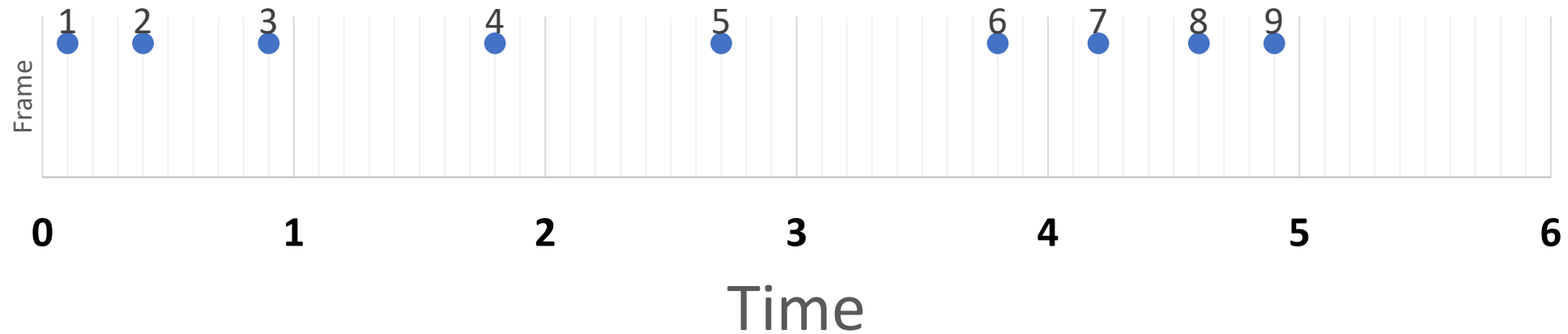


Consider the figure below, which shows the arrival of 6 frames for transmission at different nodes at times $t = \langle 0.1, 0.4, 0.9, 1.8, 2.7, 3.8, 4.2, 4.6, 4.9 \rangle$ and each transmission requires exactly one time unit.

Suppose all nodes are implementing *CSMA/CD*. Suppose that the time from when a message transmission begins until it is beginning to be received at other nodes is 0.4 time units.

(Thus if a node begins transmitting a message at $t=2.0$ and transmits that message until $t=3.0$, then any node performing carrier sensing in the interval $[2.4, 3.4]$ will sense the channel busy.)

Assuming no retransmission happen till $t=6.0$, Let us Look at the behavior!



Propagation delay = 0.4

