

04-04-22

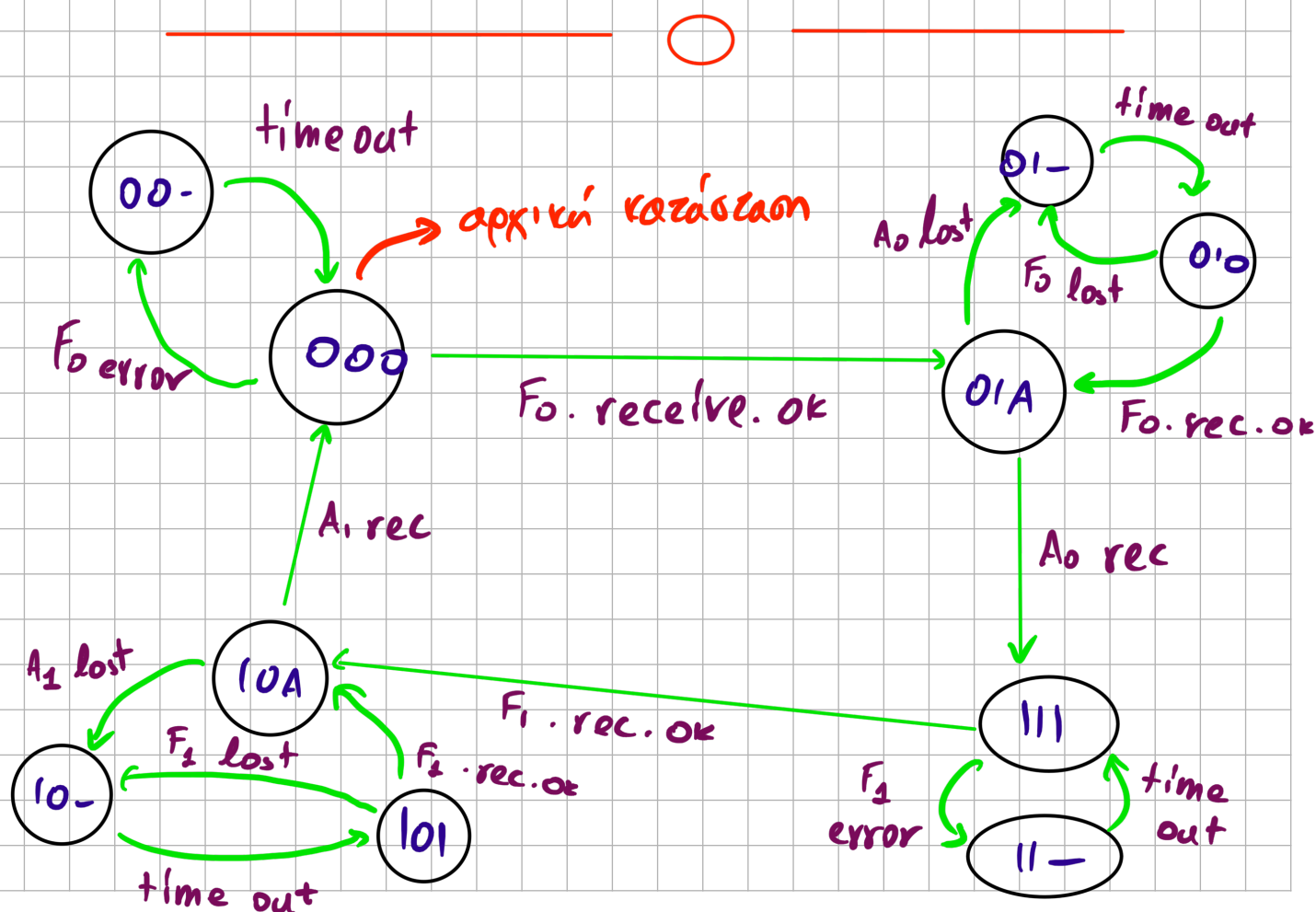
## Μέθοδος Επαλήθευσης Πρωτοκόλλου

Sender: 0/1 (0 ή 1)

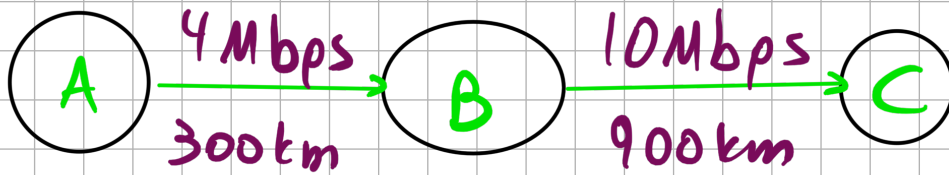
Receiver: 0/1 (περιμένει να λάβει 0 ή 1)

Channel: 0/1/A/-   
  $\rightarrow$  δεν κάνει τίποτ  
  $\downarrow$   
 επιβεβαίωση

System State: SAC



# Άσκηση



$M = 4,8 \text{ Mbytes}$

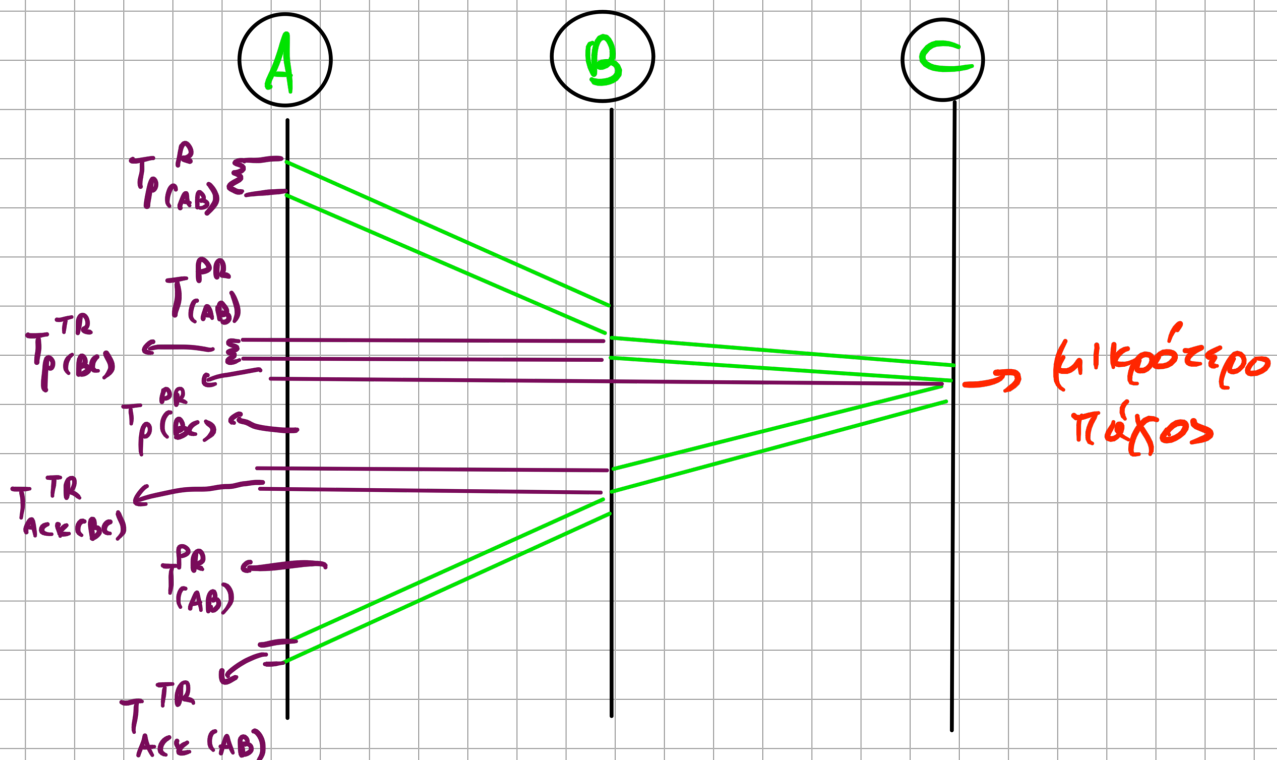
$P = 500 \text{ bytes}$  (Header: 20 bytes)

$Ack = 50 \text{ bytes}$

$v = 3 \cdot 10^8 \text{ m/s}$

Αριθμός πακέτων που θα στείλω:

$$N_p = \frac{M}{P - H} = \frac{4,8 \cdot 10^6}{500 - 20} = 10.000$$



- $T_{AB}^{PR} = \frac{(AB)}{v} = \frac{3000 \text{ km}}{3 \cdot 10^8 \text{ m/s}} = 10^{-9} \text{ sec} = 10 \text{ ns}$

- $T_{BC}^{RR} = \frac{(BC)}{v} = 3 \text{ msec}$

- $T_{P(AB)}^{TR} = \frac{P}{R_{AB}} = 1 \text{ msec}$

- $T_{P(BC)}^{TR} = \frac{P}{R_{BC}} = 0,4 \text{ msec}$

- $T_{ACK(BC)}^{TR} = \frac{A}{R_{BC}} = 0,04 \text{ msec}$

- $T_{ACK}^{TR} = \frac{A}{R_{AB}} = 0,1 \text{ msec}$

- $T_{\text{tot}}/\text{packet} = 27,54 \text{ msec} \xRightarrow{\times \text{packet}} T_{\text{tot}} = 27,54 \text{ sec}$