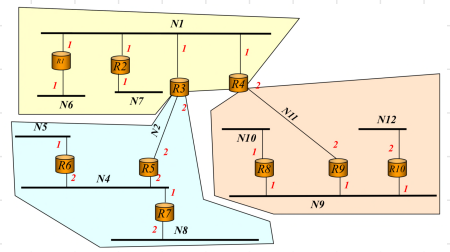
ESERCITAZIONE

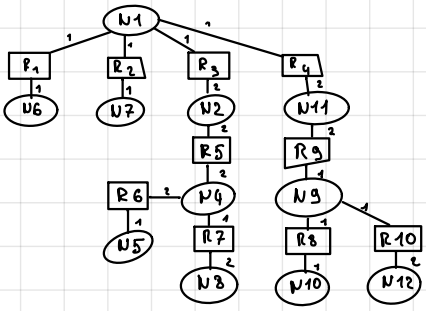
ESERCIZIO 1



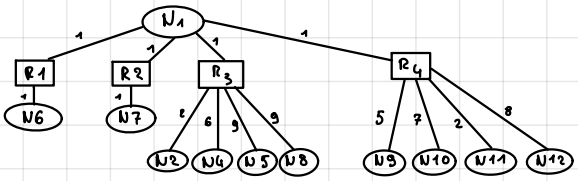
Usiamo OSPF

1) Grafo nel caso tutto sia una sola area.
2) Considera le aree in figura. Rappresenta il grafo come visto da R1, R7 e R10

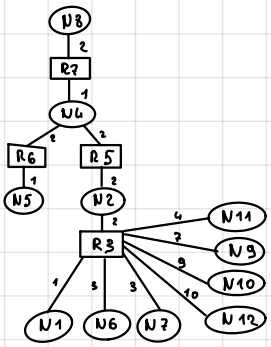
1)



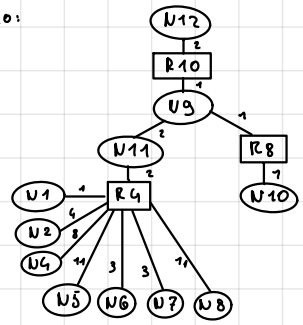
2) R1:



R7:



R10:



ESERCIZIO 2

$N = 10$ slot — W ?

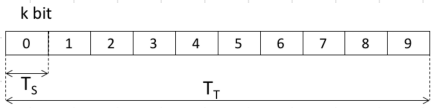
$K = 128$ bit — T_T ?

$V = 64$ Kb/s — T_S ?

$T_T = \frac{K}{V} = \dots = 2\,ms$

$W = V \cdot N = 64 \cdot 10 = 640$ Kb/s

$T_S = \frac{T_T}{N} = 0{,}2\,ms$



ESERCIZIO 3

$W = 2048$ Mb/s — N ?

$K = 8$ bit/slot — T_T ?

$V = 64$ Kbit/s — T_S

$N = \frac{W}{V} = \dots = 32$

$T_T = \frac{K}{V} = \dots = 125\,\mu s$

$T_S = \frac{T_T}{N} = \dots = 3{,}90\,\mu s$

ESERCIZIO 4

$N = 10$ — W ?

$T_g = 200\,\mu s$ — V ?

$D = 180$ b, $H = 20$b

$T_T = 10$ ms

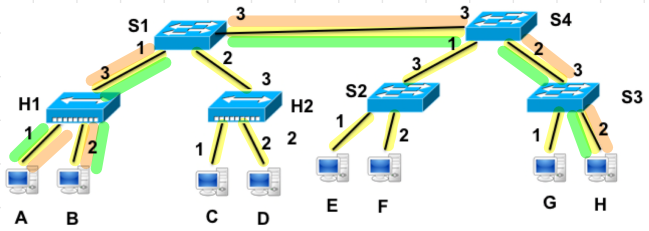
$K = H + D = 200$b

$T_S = T_D + T_g = \frac{T_T}{N} = 1$ ms $\rightarrow$ $T_D = T_S - T_g = 0{,}8$ ms

$W = \frac{K}{T_d} = \frac{200\text{b}}{0{,}8\text{ms}} = 250$ Kb/s

$V = \frac{D}{T_T} = \dots = \frac{180\text{b}}{10\text{ms}} = 18$ Kb/s

ESERCIZIO 5



3 trame:

F1: A - BROADCAST

F2: H - A

F3: A - H

Tabelle pre-compilate

1) Come gli switch inoltrano i pacchetti? Cosa contengono le tabelle? Seguono la tabella; Non cambia

2) Indirizzi sorg./dest. dei pacchetti tra S1 e S4? Gli stessi che hanno sul testo.

3) Cosa ricevono B e G? B: F1, F2, F3 ; G: F1