interface Serial0/0
  no ip address
  encapsulation frame-relay

  #why we use above step why not goes directly to sub interface?
  #Ans: if you try to enter below command without enabling frame-relay #encapsulation you will get error and not allow because sub interface not #supported over default encapsulation (e.g HDLC)

  interface Serial0/0.14 point-to-point
  ip address 10.1.14.1 255.255.255.0
  frame-relay interface-dlci 104

  (use only one to one mapping, no needs L3 to L2 mapping)
  (assign ip address to this sub interface)
  (point to point is only required to assign DLCI number to it)

  interface Serial0/0.123 multipoint
  ip address 10.1.123.1 255.255.255.0
  frame-relay map ip 10.1.123.2 102
  frame-relay map ip 10.1.123.3 103

  (used for one to many mapping, needs L3 to L2 mapping)
  (used to map L3(ip) to L2 (DLCI), used for Point to Multipoint)
interface Serial0/0
no ip address
encapsulation frame-relay
!

interface Serial0/0.123 multipoint
ip address 10.1.123.2 255.255.255.0
frame-relay map ip 10.1.123.1 201
frame-relay map ip 10.1.123.3 201

R2

R3

interface Serial0/0
no ip address
encapsulation frame-relay
!

interface Serial0/0.123 multipoint
ip address 10.1.123.3 255.255.255.0
frame-relay map ip 10.1.123.1 301
frame-relay map ip 10.1.123.2 301

R4

interface Serial0/0
no ip address
encapsulation frame-relay
!

interface Serial0/0.41 point-to-point
ip address 10.1.14.4 255.255.255.0
frame-relay interface-dlci 401

Verifying configuration

Ping must be successfully after above configuration as show below

Over R1 ping to R2, R3, R4 (10.1.123.2, 10.1.123.3, 10.1.14.4) reply must be !!!!!
Over R2 ping to R1, R3 (10.1.123.1, 10.1.123.3) reply must be !!!!!
Over R3 ping to R1, R2 (10.1.123.1, 10.1.123.2) reply must be !!!!!
Over R4 ping to R1 (10.1.14.1) reply must be !!!!!

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