- ## Advertising the mappings at LSR2 and LSR4

LSR2 routing table
R1 direct

LSR2 label table
$(2, L3) \rightarrow 1$, POP
$(0, L4) \rightarrow 1$, POP

LSR1 routing table
R1 via LSR2

LSR1 label table

LSR1 FEC table
R1 $\rightarrow$ 1, PUSH(L4)
Received mappings
R1:L4 via 1 (used)

LDP mapping
R1:L4

LDP mapping
R1:L3

LSR 1   0   1   2

LSR2   0   1   2

LSR3   0   1   2

LSR4   0   1   2

R1
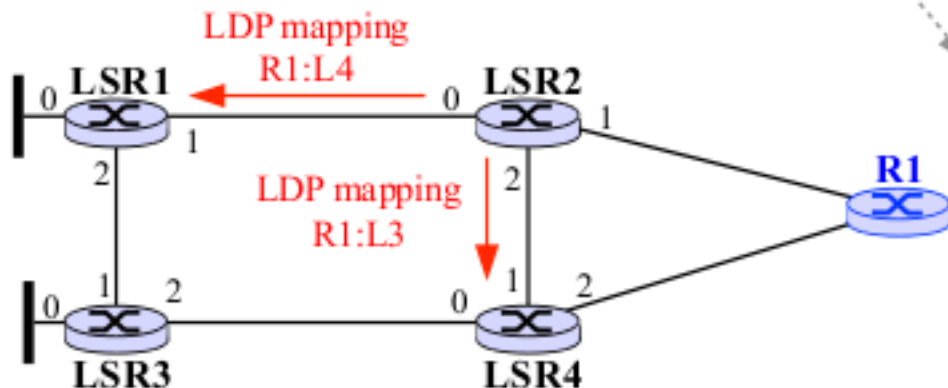
Note: use of per-interface or per-platform label spaces is up to LSR (here per-interface is assumed)

LSR3 routing table
R1 via LSR1

LSR4 routing table
R1 direct

LSR4 label table

Received mappings
R1:L3 via 1 (unused)

LSR4 does not use mapping R1:L3 because not along IP shortest-path