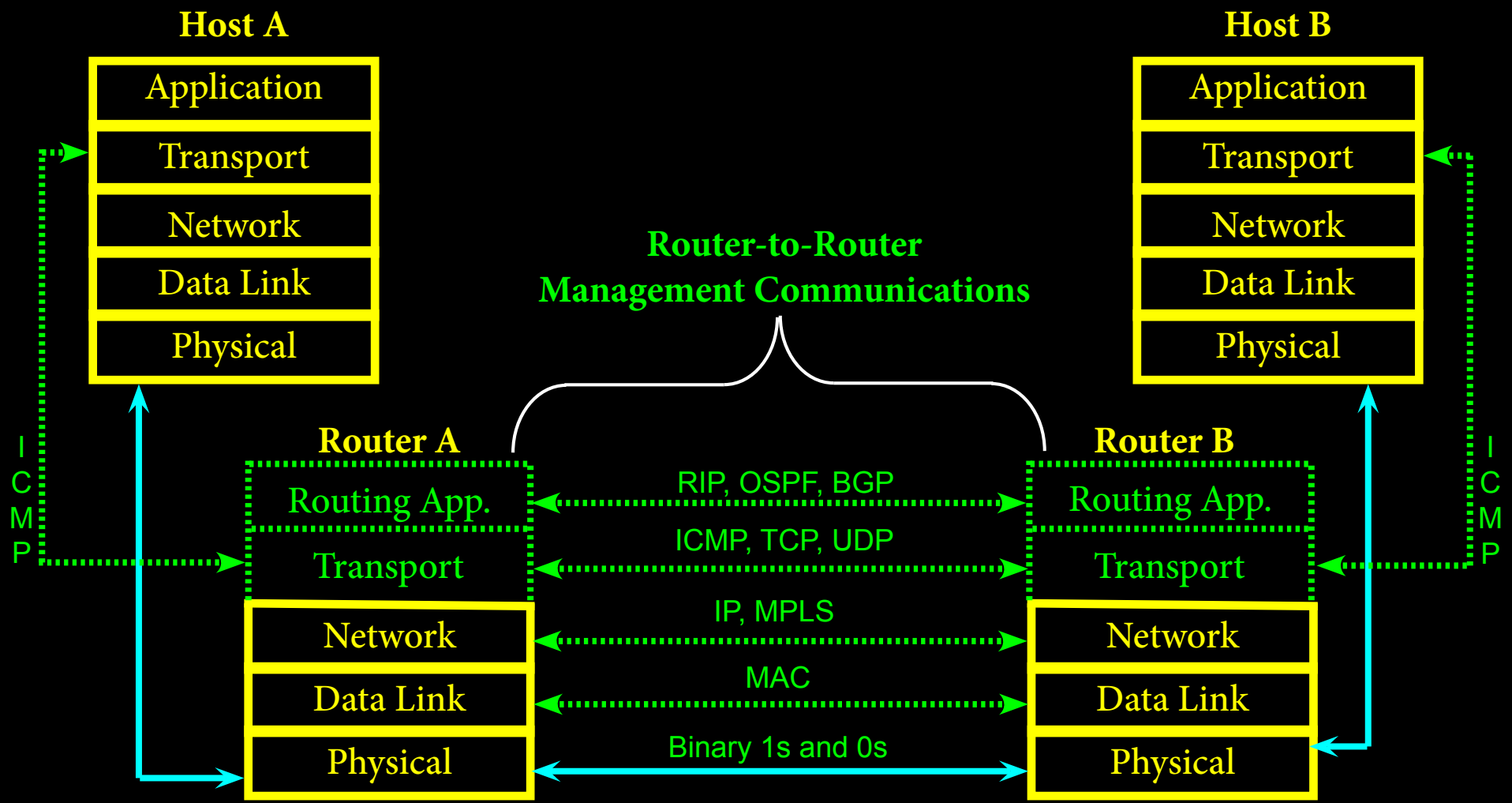
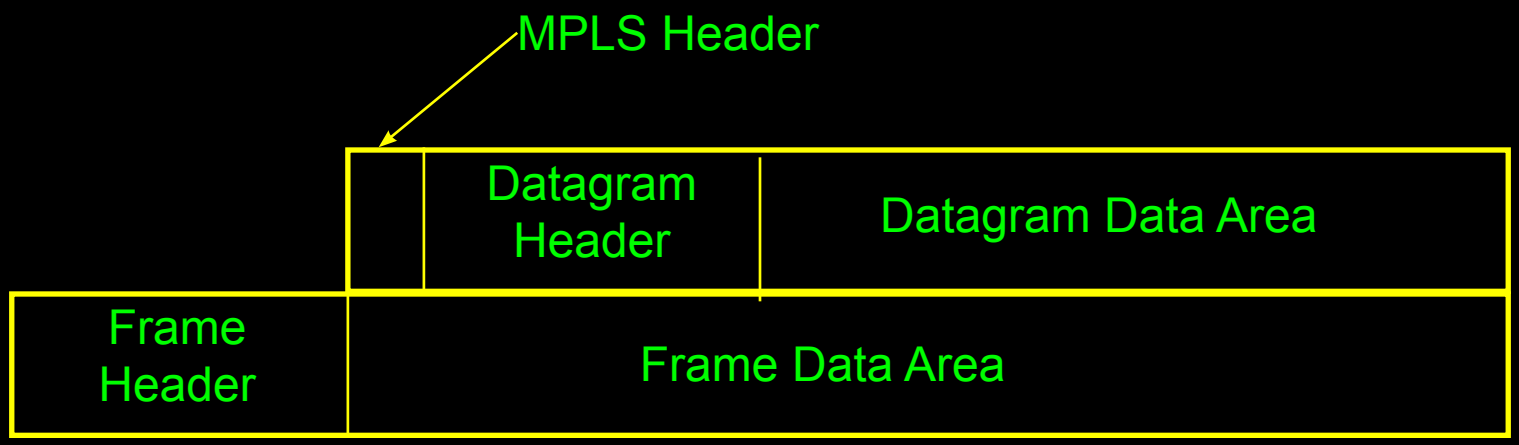
TCP/IP Reference Model

Layer-by-Layer Protocols for Router-to-Router Management Communications

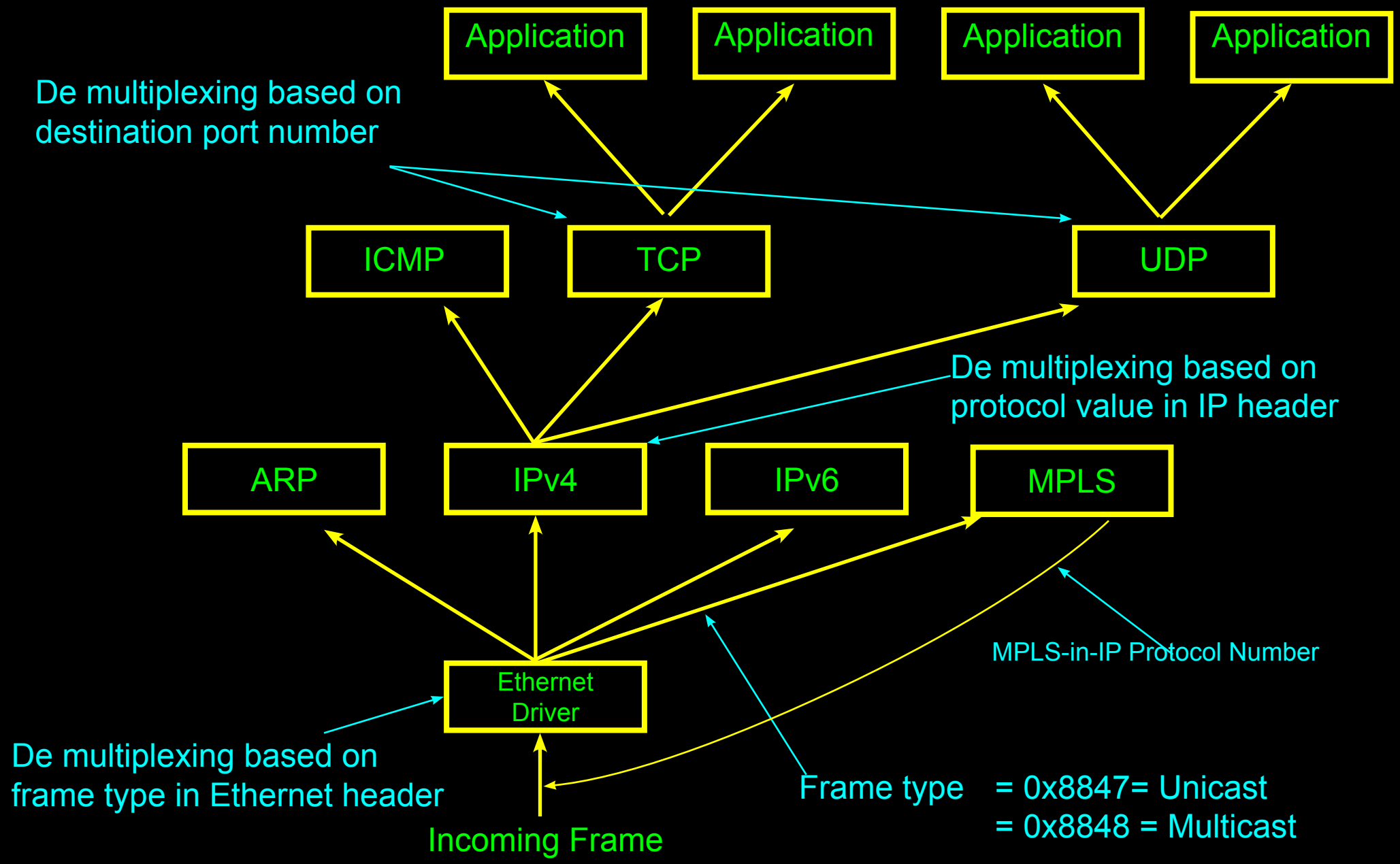




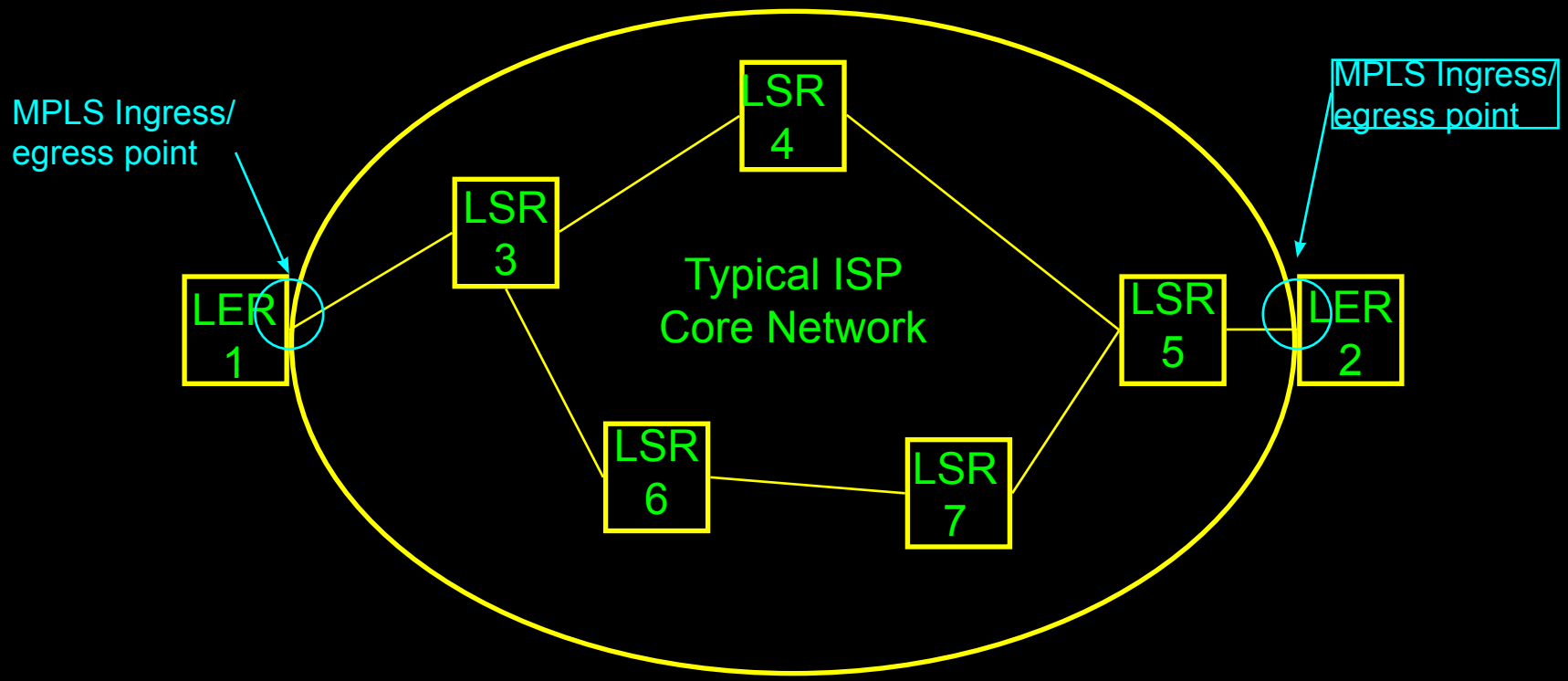
MPLS Header

Label = Index to NHLFE (Next Hop Label Forwarding Entry)
QoS = Quality of Service (formerly experimental)
S = '1' = Not last entry in stack
= '0' = Last entry in stack
TTL = Time To Live = Same as in an IP Header

De multiplexing of received Ethernet frame

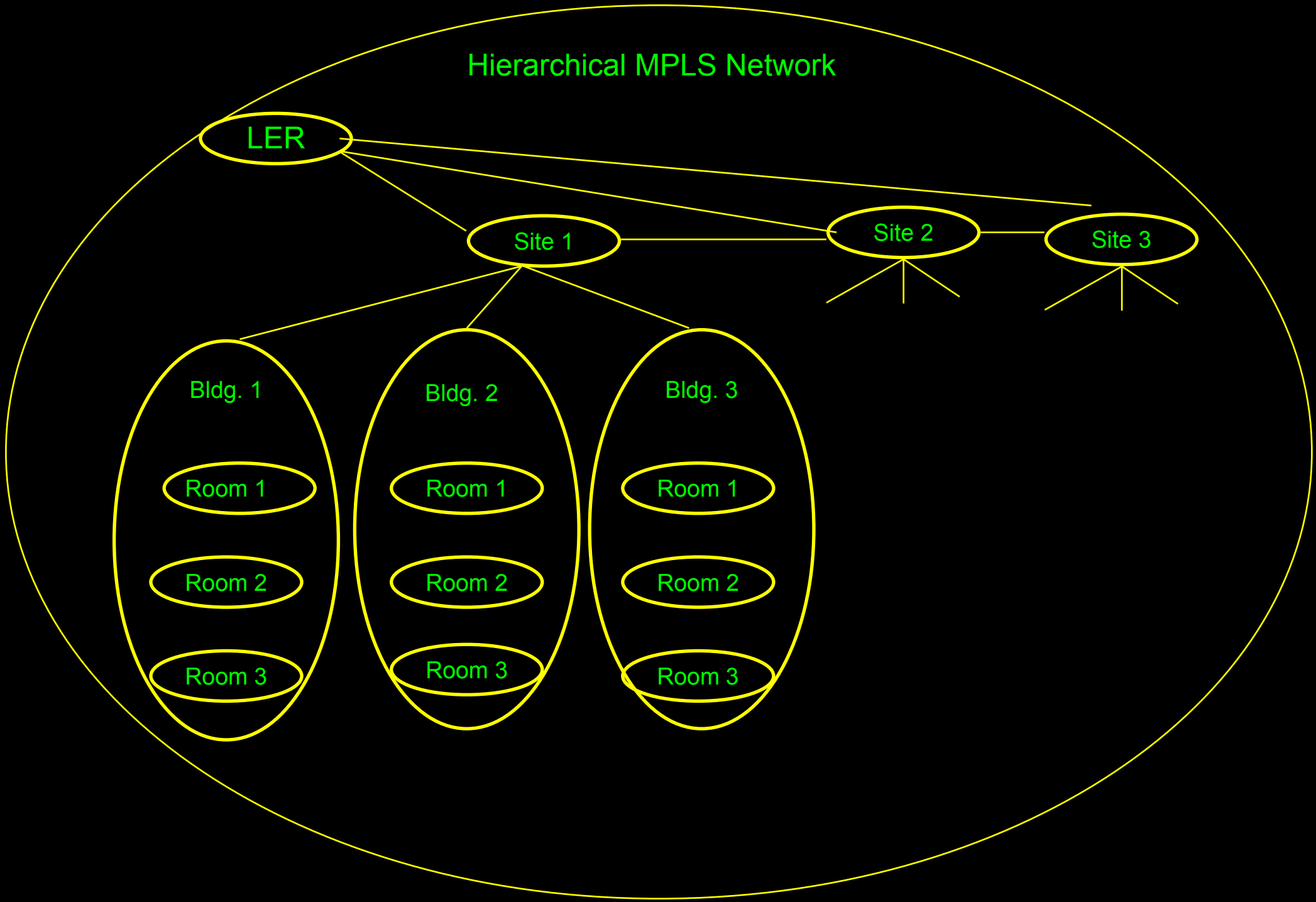


Non-Hierarchical MPLS



LSR = Label Switching Router
LER = Label Edge Router

Label classification at Ingress Point
Final label removed at Egress Point


Hierarchical MPLS Network
LER
Site 1
Site 2
Site 3
Bldg. 1
Bldg. 2
Bldg. 3
Room 1
Room 2
Room 3
Room 1
Room 2
Room 3
Room 1
Room 2
Room 3