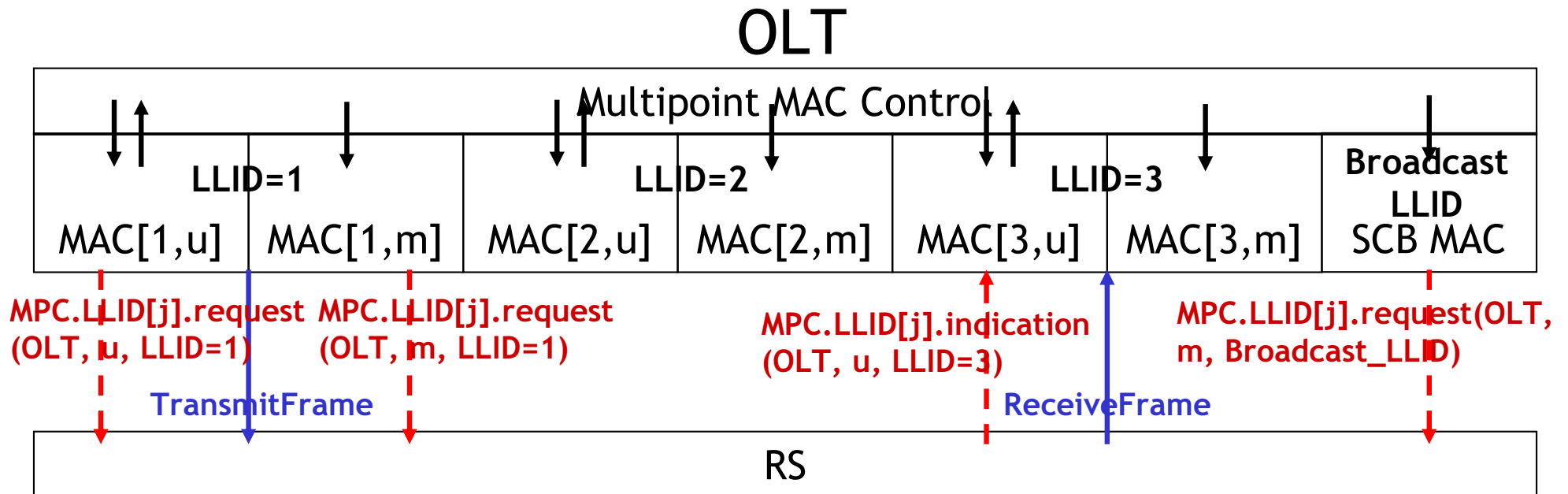


# Multiple MAC and LLID mapping in P2MP

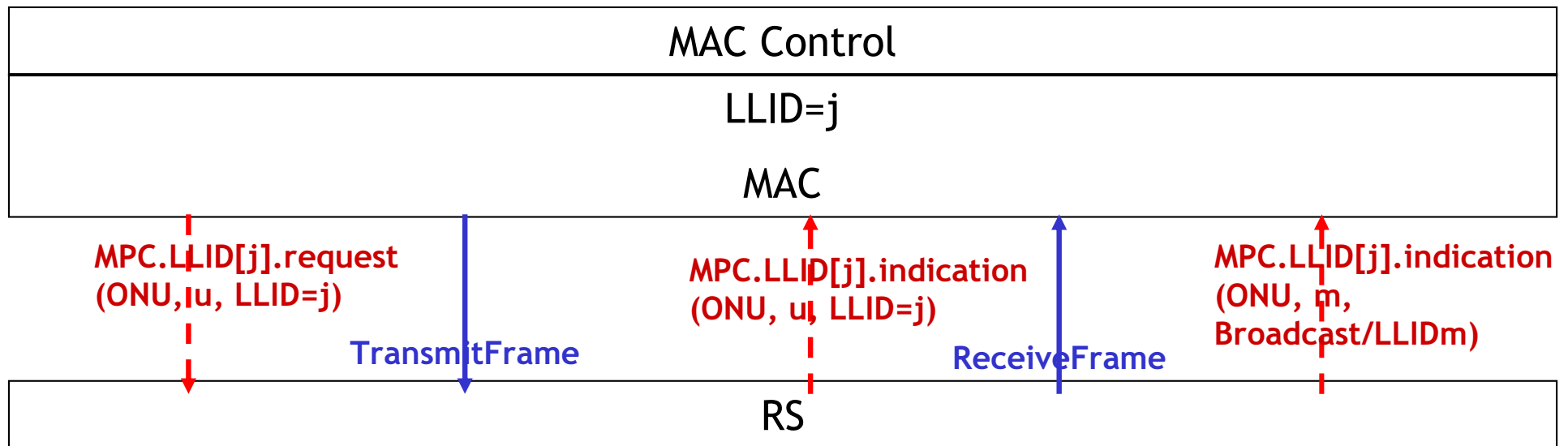


## MPC.LLID[j].indication(type, mode, LLID) for OLT

- Type - OLT or ONU
- Mode - unicast, multicast
- LLID - source LLID

# Multiple MAC and LLID mapping in P2MP

## ONU



### MPC.LLID[j].indication(type, mode, LLID) for ONU

- Type - OLT or ONU
- Mode - unicast, multicast
- LLID - destination LLID

# Multiple MAC and LLID mapping in P2MP

- At the OLT, the rules for setting the mode and LLID parameters:
  - a) External Broadcast frame : (mode=1, Broadcast\_LLID)
    - > MPC.LLID[7FFF].request(OLT, m, 7FFF)
  - b) External Unicast frame to known LLIDn : (mode=0, LLIDn)
    - > MPC.LLID[n].request(OLT, u, LLIDn)
  - c) External Unicast frame to unknown LLID : (mode=1, Broadcast\_LLID)
    - > MPC.LLID[7FFF].request(OLT, m, 7FFF)
  - d) Internal Unicast frame from LLIDn to LLIDm : (mode=0, LLIDm)
    - > MPC.LLID[n].indication(OLT, u, LLIDn) (from RS to MAC)
    - > MPC.LLID[m].request(OLT, u, LLIDm) (from MAC to RS)
  - e) Internal Broadcast frame from LLIDn : (mode=1, LLIDn)
    - > MPC.LLID[n].indication(OLT, m, LLIDn)
    - > MPC.LLID[n].request(OLT, m, LLIDn)
  - f) Internal Unknown frame from LLIDn : (mode=1, LLIDn)
    - > MPC.LLID[n].indication(OLT, m, LLIDn)
    - > MPC.LLID[n].request(OLT, m, LLIDn)

# Multiple MAC and LLID mapping in P2MP

- At the ONU, the rules for setting the mode and LLID parameters:
  - upstream frame : (mode=0, the corresponding\_LLID=j)  
-> MPC.LLID[j].request(ONU, m, LLID=j)
- At the ONU, the rules for filtering incoming frames:
  - (mode=0, the corresponding\_LLID=j)  
Internal Unicast frame from LLIDn to LLIDj  
-> MPC.LLID[j].indication(ONU, u, LLID=j)
  - (mode=1, not the corresponding\_LLID)  
External Broadcast frame : (mode=1, Broadcast\_LLID)  
Internal Broadcast frame from LLIDn : (mode=1, LLIDn)  
External Unicast frame to unknown LLID : (mode=1, Broadcast\_LLID)  
Internal Unknown frame from LLIDn : (mode=1, LLIDn)  
-> MPC.LLID[j].indication(ONU, m, LLID=n)  
-> MPC.LLID[j].indication(ONU, m, Broadcast\_LLID)

# Multiple MAC and LLID mapping in P2MP

- Questions
  - Multicast in 'Multicast MAC' means SCB except the corresponding ONU? If so, DA= Broadcast MAC address or SCB multicast address of EFM defined?
  - We should define MPC.LLID[j].indication primitive
  - We should add primitives into the layer block diagram in Clause 64.