

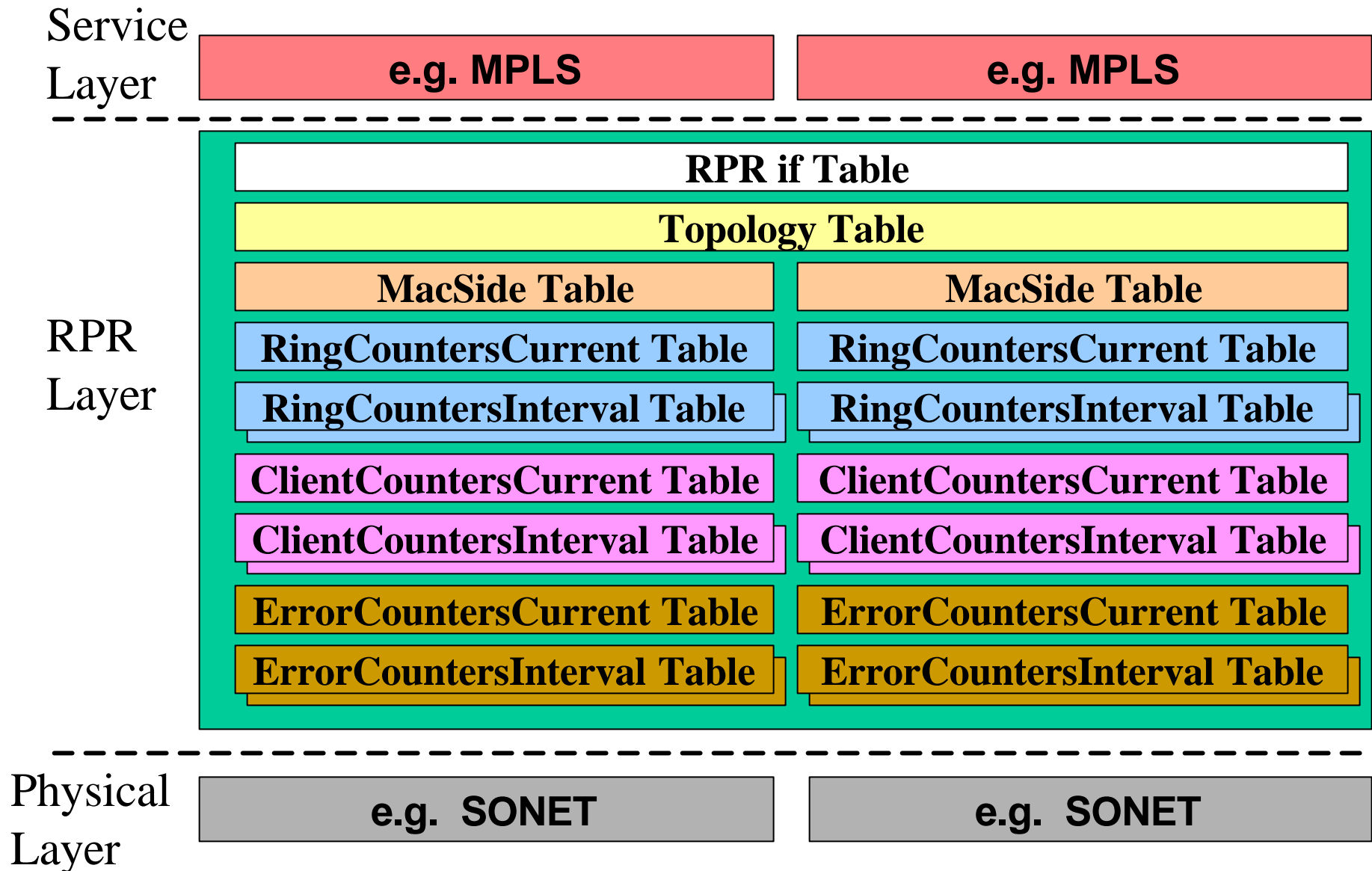


# **RPR Management Information Base**

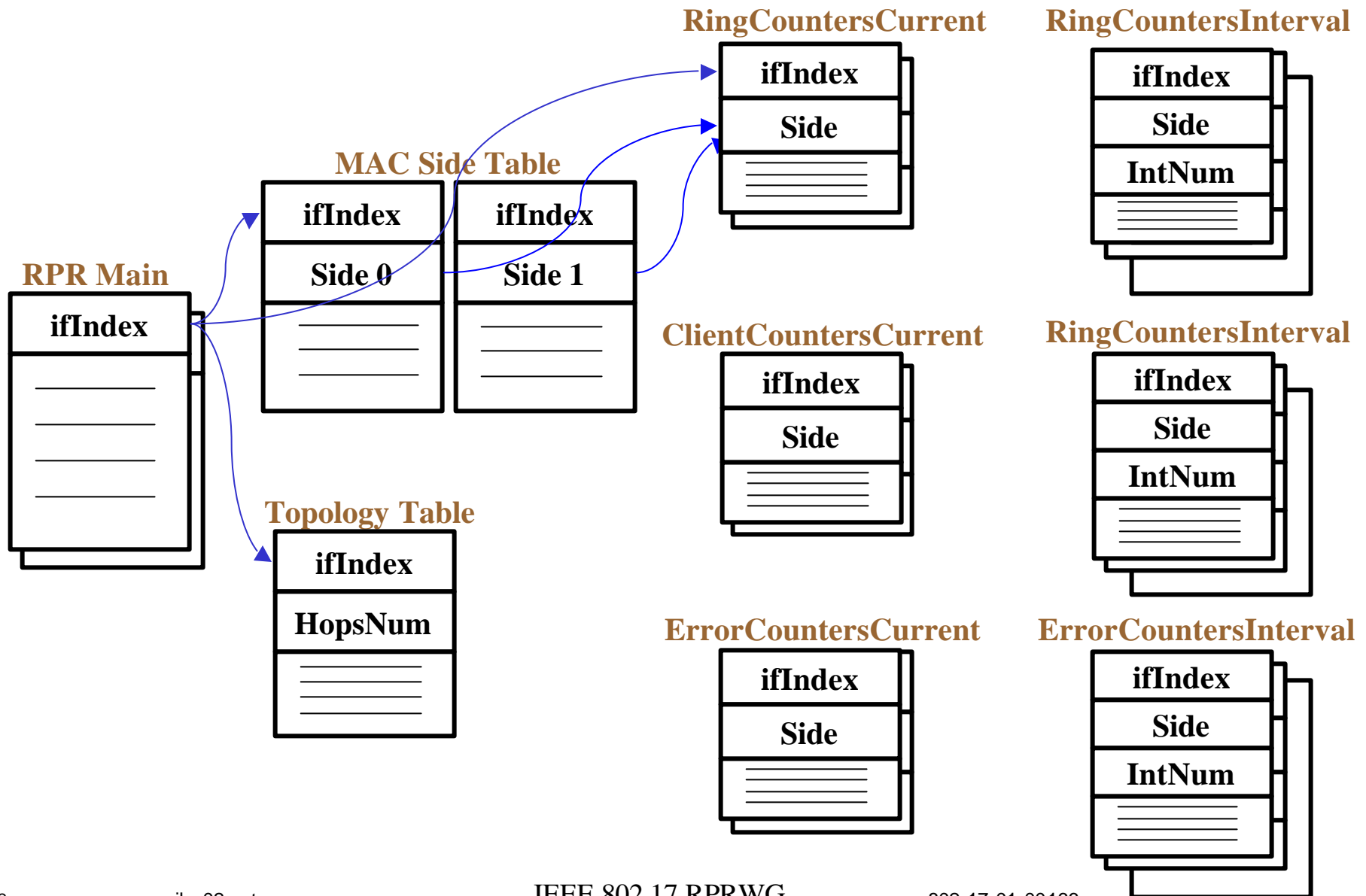
**Gal Mor, Corrigent Systems**



# RPR MIB Concept



# RPR MIB Tables Relationship





# RPR Main Table

- Extending the if table, that already has:
  - AdminStatus + OperStatus
  - RPR MAC Address
- Parameters that are relevant for both sides
  - Number of Stations in the RPR ring
  - Topology Timer
  - Protection WTR
  - Time Elapsed of current interval
  - Number of valid previous intervals



# Topology Map Table

- Parameters that are relevant for both sides
  - Station Hop Number
  - Station ID
  - Station MAC Address
  - Station Protection State East Side
  - Station Protection State West Side



# MAC Side Table

- Parameters per RPR Side
  - Protection currently active
  - Protection command requested by the management
  - Protection status
  - Transition counter from Idle to Protection
  - Protection duration
  - sysUpTime at the time of the last protection activation



# Ring Current & Interval Counters

- Ring counters per RPR side (per interval)
  - Unicast LP Packets In, Octets In
  - Unicast HP Packets In, Octets In
  - Multicast Packets In, Octets In
  - Unicast LP Packets Out, Octets Out
  - Unicast HP Packets Out, Octets Out
  - Multicast Packets Out, Octets Out



# Client Current & Interval Counters

- Client counters per RPR side (per interval)
  - Unicast LP Packets In, Octets In
  - Unicast HP Packets In, Octets In
  - Multicast Packets In, Octets In
  - Unicast LP Packets Out, Octets Out
  - Unicast HP Packets Out, Octets Out
  - Multicast Packets Out, Octets Out





# Error Current & Interval Counters

- Error counters per RPR side (per interval)
  - Ring Aborted Packets from the PMD layer
  - Ring HEC Error Packets
  - Ring Giant Packets
  - Ring LP TTL Expired Packets
  - Ring HP TTL Expired Packets
  - Ring FCS Error Packets
  - Ring Self Source Packets
  - Ring Unknown/Unsupported Protocol Packets
  - Client Giant Packets