



# Requirements from RPR For WAN/MAN Systems

David Zelig  
Corrigent Systems  
Davidz@corrigent.com

# COS

- Multi service over RPR
  - 50m Sec protection
  - An option for no jumbo frames
- RPR should enable multiple COS
  - For example: Reduced set of DiffServ capability/802.1Q
- Higher layers mapping to RPR COS should be defined closely in the standard

# Node Identification

- Per node (not per module)
- Fixed for node life
  - Same module is not always in the same node
- Should not prevent standard TE methods

# OAM

- Carrier Class RPR maintenance
- Use of existing PHY layers
- PM
  - RPR PM counters
- Alarms
  - Specific RPR alarms definitions, e.g. Topology alarms

## OAM (cont.)

- Tracing
- Detect mis-wiring
- Loopbacks
  - All traffic
  - Packets (connectivity)

# Other Issues

- Topology
  - Pre-provisioning as option
  - Predictable behavior
  - Alarms
- Multi Service Transparency
  - No fragmentation - Ethernet + RPR MAC + Delta length on ring (It does not mean you need a jumbo frame)

# Proposed objectives

- RPR should enable multi service
- Option for jumbo frames
- RPR layer PM and OAM