Resilient Packet Ring Study Group Interim Meeting

August 2000, Santa Clara Marriott
hosted by Lantern Communications

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RPRSG Charter

- Created as an Executive Committee Study Group of LAN/MAN Standards Committee
  - March 2000 Plenary Meeting
- Develop a Project Authorization Request and a 5 Criteria Document
  - creation of a working group to standardize a Resilient Packet Ring MAC Layer
  - will not attempt to define new PHY layers

802 Working Group Organization

- collection of individuals who believe they have the technical competence to create a standard
- do NOT have to be IEEE members to be working group members
  - voting rights come from attendance at meetings
- Only IEEE Standards Association members can ballot the draft standard

Goal for this Meeting

- Forward PAR and 5 Criteria Document to SEC
- Request SEC Chair to request slot at NESCOM meeting following next 802 plenary

Other Work for this Meeting

- RPRSG response to T1X1 DOS work
- Discussions / Presentations on :
  - 802 Standards Process
  - RPRWG Objectives
  - MAC Models
  - Performance Modeling
  - Press Release
  - Location of January Interim Meeting

What is an RPR

- Dual Counter Rotating Rings
  - Media Independence
    - scalable in bit-rate, # nodes, span distance
  - Destination Stripping of variable length uni-cast packets, support broadcast / multicast packets
  - Distributed Bandwidth Management & Congestion Ctrl
    - fair distribution of bandwidth
  - Protection Mechanism
  - Class Of Service capability
  - Plug and Play
  - Large MTU (9216 Bytes)

RPRSG Status

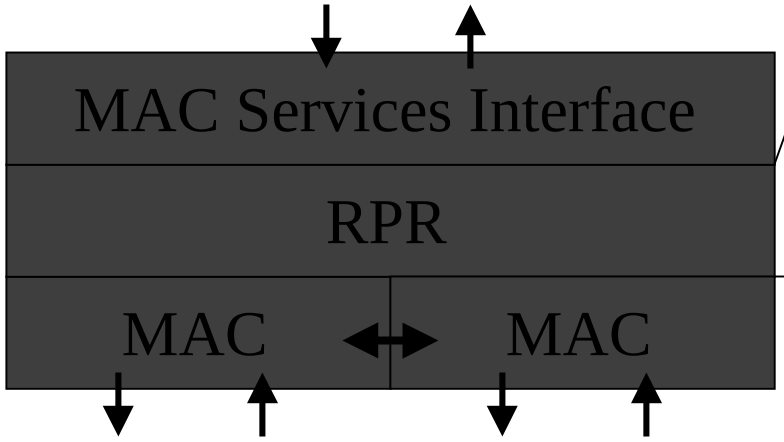
- 2 meetings to date, May & July 2000
  - average attendance 24 individuals representing 14 organizations
- Lots of presentations
  - end users with requirements
  - system companies with solutions
  - silicon vendors & others

RPR MAC Model

SndPkt(pkt,COS,direction)

RcvPkt(pkt,COS,direction)

ProtectionState(cmd,state)



SndPkt(pkt)
RcvPkt(pkt)
LinkState(state)

SndPkt(pkt)
RcvPkt(pkt)
LinkState(state)

Determine packet direction
(addr, protection state)
Queue packet based on COS
Fairness Algorithm
Protection Mechanism
Topology Discovery

CRC Gen/Chk
Address Recognition /pkt fwd

Future Meetings

- IEEE 802 Plenary
  - November 6-10, 2000 Hyatt Regency Tampa
  - Tampa, FLA
- 802.17(?) First Working Group Meeting
  - Late January 2000 (assumes PAR approval)

Contact Information

- to join email reflector send mail with body **subscribe stds-802-rprsg <*email_address*>** TO **majordomo@ieee.org**
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