



Resilient Packet Ring Study Group Plenary Meeting

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Hyatt Regency Tampa

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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



IEEE SA Patent Policy

- The WG Chair should be informed of any patents that are required in order to implement a standard
 - Organization owning the patent must agree to license the patent on reasonable and non-discriminatory terms
 - Failure to provide the IEEE with a letter agreeing to the terms will force removal of the techniques from the draft standard



Goal for this Meeting

- Get PAR and 5 Criteria Document approved by the SEC
- Address comments / concerns of other dot groups



Other Work for this Meeting

- Discussions / Presentations on :
 - 802 Standards Process
 - Fragmentation
 - Diffserv Requirements
 - RPRWG Objectives
 - Performance Modeling
 - Press Release
 - RPRWG Scope
 - RPRWG Operating Rules



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**
 - **Protection Mechanism that operates in under 50 ms to node and fiber faults**
 - **Distributed Bandwidth Management & Congestion Ctrl**
 - **fair distribution of bandwidth**



What is an RPR

- Class Of Service capability
- Plug and Play
- Large MTU (9216 Bytes)



RPRSG Status

- 3 meetings to date, May, July, Aug 2000
- Lots of presentations
 - end users with requirements
 - system companies with solutions
 - silicon vendors & others

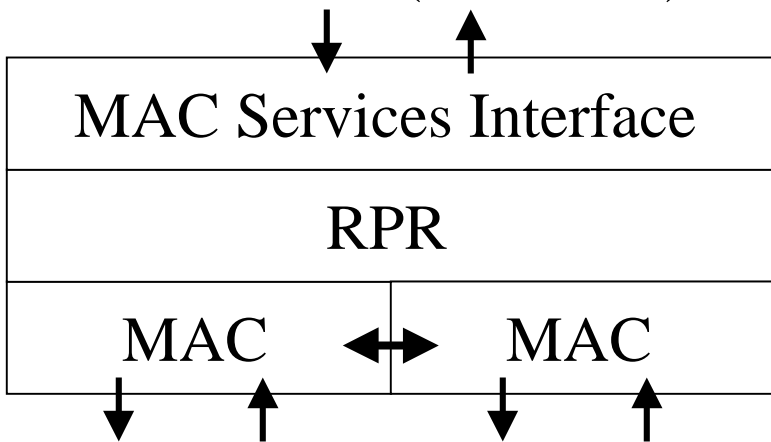


RPR MAC Model

SndPkt(pkt,COS,direction)

RcvPkt(pkt,COS,direction)

ProtectionState(cmd,state)



Determine packet direction
(addr, protection state)

Queue packet based on COS

Fairness Algorithm

Protection Mechanism

Topology Discovery

CRC Gen/Chk

Address Recognition /pkt fwd

SndPkt(pkt)

SndPkt(pkt)

RcvPkt(pkt)

RcvPkt(pkt)

LinkState(state) LinkState(state)



Future Meetings

- 802.17 First Working Group Meeting
 - Bay Area
 - Late January 2000



Contact Information

- to join email reflector send mail with body
subscribe stds-802-rprsg <*email_address*>
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