IEEE Plenary - LaJolla, CA
RPRSG Meeting Minutes July 11-13 2000

7/11/2000 8:43AM
30 attendees

Presentations may be found at:
http://www.ieee802.org/rprsg/public/july_plenary/index.html

ACTION items in text

Motion#1- The RPRSG voting rules amended to require:
        1) 75% approval vote for technical issues
        2) 50% +1 approval vote for procedural issues
        Motion: Harry Peng
        Second:Raj Sharma
        Yes:20 No:0

Minutes will be approved 8/12/2000

Presentation - Performance Metrics IEEE 802 RPRSG
Khaled Amer
Discussion - Ring Restoration performance metric will be added
Ring performance stability with traffic flow changes
Define Ingress/Egress access connection Bit Rate and Traffic characteristics
Can Egress rate be below ring rate? Which mechanism?
Simulation scenarios should be included ingress=egress traffic ports
Change Bit rate to data rate in presentation
Define L2/L1 mapping for consistency (mapping delay, etc.)
Define L1 data rate - SONET vs. GigE
Define L1 model (packetization delay) metrics
Sharing of model source code discussion

Presentation - IPR(Intellectual Property Rights) issues
Gary Robinson

Presentation - Assessment of Scalable Coherent Interface
Jason Fan

Presentation - Resilient Packet Ring 5 Criteria (Compatibility)
BJ Lee
Discussion - Ethernet (SNAP encapsulation) and LLC over MAC sublayer
correction Page 5- SRP TTL field 8 bits
802.1D compatibility (transparent bridging) and jumbo frame support
Compatibility discussion tabled until PAR discussion
Decision not to preclude 802.1D bridging

Presentation - IEEE 802 Compatibility Considerations
Nader Vijeh
Discussion - How many MACs per port
How do you do protection w/ one queue

Presentation - Excite @Home View of Resilient Packet Ring Study Group
Bruce Johnson

Presentation - Survivability Input to RPRSG
Bob Hott

Presentation - Luminous networks solution and ring header
Raj Sharma

Presentation - Topology discovery and protection switching
Jason Fan

Presentation - IPT Control Access protocol
Harry Peng and Allan Pepper
Discussion - Input buffering done separately by switch fabric

Presentation- PHY Logical Interfaces
Tom Alexander and Henry Liao
Discussion - Several types of 10GE PHY interfaces available
MAC may signal PHY with which port to use or multiple PHYs(Reconciliation
layers)
XGMII -36 bits wide w/ clock and data recovery may be used as 10GE interface

General Discussion
 Bridging Miracle #1
East or West decision can be done by the MAC
Hints may be East/West suggested by upper layer (L3)
MAC may ignore the "hint" in protection and MAC will need to signal that
decision
Use of one MAC layer w/ 2 PHYs and 1 medium (figure presented)
Treat Resilient Packet Ring as one LAN segment

 Bridging Miracle #2
802.1d defines bridge, not LAN segment
Put functions in the MAC to support bridging
Flooding will occur to find unknown destinations -(No different than limited
 memory tables)
MAC must decide East or West

ACTION #1 - Investigate and report on 802.1 bridging issues
Due 3wks - Harry Peng, Denny Gentry, Raj Sharma, Vince Eberhard

PAR editing
Discussion - Multiple PHY(different) on different spans
Issue of fiber optic medium stipulation
Preference by group for homogeneous networks
QOS decision deferred (All agreed we need it)
How will MIB be developed w/ IETF
Distinct Identity - Bullet #2 - Any conflict w/ 802.3ad?
Distinct Identity - Bullet #4 - and select multiple existing PHYs vs.
to operate over multiple existing PHYs
Economic Feasibility - Bullet #4 - Remove OPNET stipulation
Bullet #1 - Remove Empirical future statement to "a future meeting"
Bullet #4 - Change to "installations based"
Bullet #5 - emphasis should be on ring topology

Mike Takefman will present a draft PAR to the SEC during the closing
SEC Meeting as part of the progress report on RPRSG

Voting- Need to fill positions by 1st WG meeting?
Chair
Vice Chair

Editor in Chief - (Subeditors?)
Secretary
Task force chairs

Presentation - Performance Metrics (Continued)
Khaled Amer
Discussion/Editing - Variables- Data rate (ingress/egress) on ring vs. bit
rate
Aggregation- corresponding ingress/egress data rates
Aggregation - Aggregation renamed to aggregation/traffic types
Traffic types issue including Multicast
Metrics - Packet loss (ingress/egress/others)
issue raised about Packet loss on medium (.D27)
Packet loss discussion tabled
Which physical layer model will be used? PHY modeling characteristics?

Motion - Approve minutes from Reston (5/22) meeting as revised and presented
7/13/00
M: Nader Vijeh   S:Dave Meyer
Yes:19   No:0   Abstain:0

Reviewed PAR - No additional changes entered

Presentation - IEEE 802 Compatibility Considerations (Continued)
Nader Vijeh
Discussion/Editing - Point to define SONET speeds supported
Will support 802.3ae interfaces
Discussion to only define logical interface to system interface
VLAN support 802.1q - Which information to map/copy to RPR header
Plan to be compatible with 802.1q

Presentation - Modeling and Simulations in Support of Standards Development
Taylor Salman

ACTION: Read 802.1Q and comment on any concerns or unknowns
Nader, Denny, Jason - report to reflector in 3 wks

ACTION: Write up layering of MAC (Nader/Tom) diagram) and
assumptions on building a bridged network. This will be emailed to the RPRSG
reflector and discussed the referred to the 802.1 reflector for comments.
The goal will be to get their agreement on our positions.
Heng and Tom to draft, everyone will review. Draft ready in 2 weeks.

ACTION: Prepare objectives for the RPRSG
All to email to the reflector
Cutoff 2weeks prior to interim meeting (8/28-319)
Dave to keep and sort list

ACTION: Performance metrics - Khaled Amer
Continue reflector discussion, to finalize potential metrics and parameters
with the goal of producing a working document
create reference model for simulation by next interim
Strawman of a specific subset of scenarios to model to use as start point

ACTION: Draft a "Press Release" for IEEE and Others(trade) publications
- Mike to send draft to the reflector within 4 weeks
editing/decision during next interim

Desire expressed to create marketing consortium similar to Bluetooth

Next interim in San Jose 8/29-31 Cisco campus — changed to Marriott Hotel during the week following the meeting