IEEE 802.3
Energy Efficient Ethernet
Study Group Report

Agenda and General Information

Orlando, FL
March, 2007

Mike Bennett
mjbennett@lbl.gov
Reflector and Web

- We have a reflector set-up:

- To subscribe to the EEESG reflector, send your request to: [ListServ@ieee.org](mailto:ListServ@ieee.org)

  with the following in the body of the message (do not include “<>”):

  subscribe stds-802-3-eeesg <yourfirstname> <yourlastname> end

- Send EEESG reflector messages to: [stds-802-3-eeesg@listserv.ieee.org](mailto:stds-802-3-eeesg@listserv.ieee.org)


EEESG Charter
(as per November ‘06 Plenary Motion)

Move that the IEEE 802.3 working group request formation of an *Energy Efficient Ethernet* IEEE 802.3 study group to evaluate methods to reduce energy use by reduction of link speed during periods of low link utilization

- Our job is to:
  - Determine the objectives
    - Based on the 5 criteria
  - Produce a Project Authorization Request (PAR)
Overview of IEEE 802.3 Standards Process (1/5)

Study Group Phase

- **Idea**
  - Call for Interest
    - 802.3 Form SG
      - 802 EC Form SG
        - 802 EC Approve
          - Yes
            - Study Group Meetings
              - Objectives
                - PAR
                  - 5 Criteria
                    - Yes
                      - 802.3 Approve
                        - Yes
                          - Approved PAR
                        - No
                          - Check Point
                          - NesCom Approve
                            - Yes
                              - Approved PAR
                            - No
                              - Check Point
                            - SASB Approve
                              - Yes
                                - Approved PAR
                              - No
                                - Check Point
- **Note:** At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.
EEE Study Group Report

- Met in Monterey for two days with over 26 engineers from more than 20 companies representing IC vendors, system vendors, and end users.
- Heard presentations on standards education regarding PAR, 5 criteria and setting objectives, examination of possible control policies and preliminary look at impact on higher layers, and a look at possible control protocols
- Had a lot of discussion …
EEE Study Group Report

- We have consensus on a number of potential objectives, based on straw polls

- We defined terms:
  - preparation, transition and settling times
Goals for this Meeting

- Hear presentations related to 5 Criteria, Goals, and Objectives, e.g.
  - Technical feasibility of Rapid PHY selection
  - Power Management Tutorial
  - A look at server bandwidth utilization
  - EEE for Backplane
- Continue developing consensus on EEESG Objectives
- Request extension
One Possible Timeline to PAR

Legend
- ▲ IEEE 802 Plenary
- ★ IEEE 802 Interim
- ♠ IEEE-SA Standards Board

IEEE Orlando Plenary Meeting, March 2007
Thank You!