

# IEEE 802.3

# Energy Efficient Ethernet

# Study Group Report

## Agenda and General Information

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# 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-eesg <yourfirstname> <yourlastname>*  
*end*
- Send EEESG reflector messages to:  
[\*stds-802-3-eesg@listserv.ieee.org\*](mailto:stds-802-3-eesg@listserv.ieee.org)
- For complete instructions on reflector usage, subscription, and unsubscription:  
<http://www.ieee802.org/3/eesg/reflector.html>
- EEESG web page URL:  
<http://www.ieee802.org/3/eesg/>

# EEESG Charter

(as per November '06 Plenary Motion)

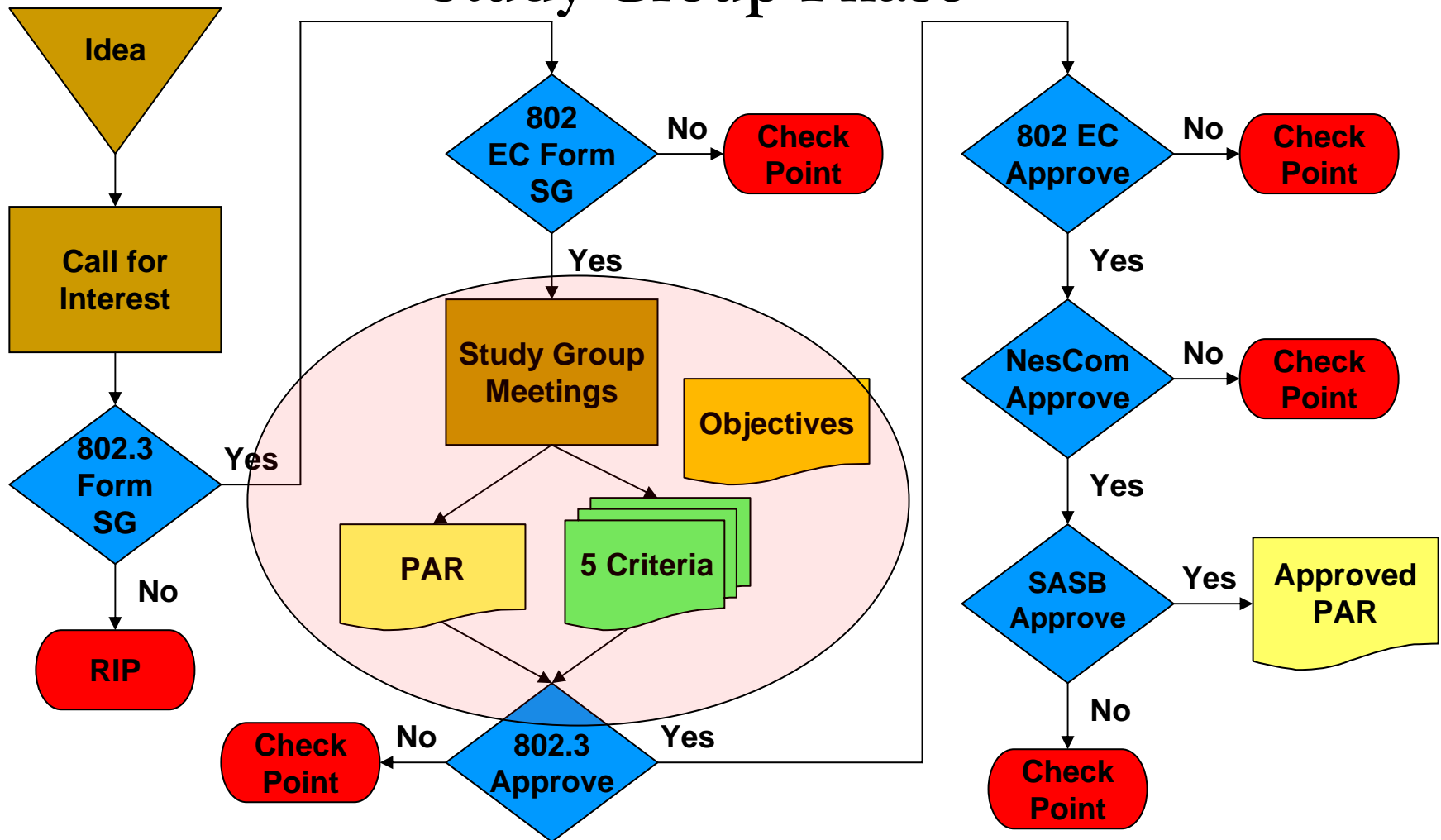
Move that the IEEE 802.3 working group request formation of an *Energy Efficient Ethernet* IEEE 802.3 study group to evaluate methods to reduce energy use by reduction of link speed during periods of low link utilization

## 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



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 ...

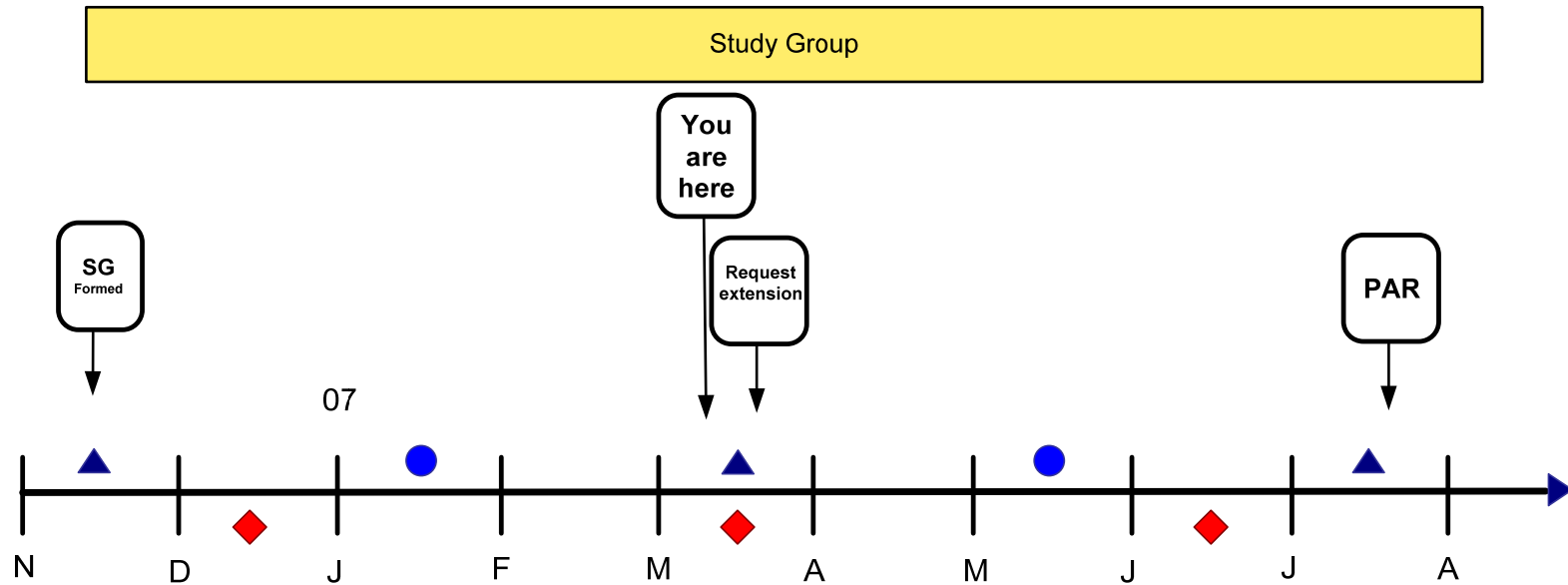
# EEE Study Group Report

- 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



Thank You!