# Residential Ethernet Study Group
## Closing Plenary Report
## IEEE 802.3
## San Antonio, TX
## November 18, 2004

Steve Carlson, RESG Chair

High Speed Design

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# Progress for the Week

- Presentations addressing the Objectives
  - 8 presentations
    - Supplied parameters for jitter, latency and application timing requirements
  - Several possible approaches discussed
  - Possible for all work to be in 802.3
  - Reuse of existing 802.3 technologies with some augmentation
  - Most likely that joint work with 802.1 will be needed
- Continued to refine the Objectives
  - Tightened up objectives
  - Focused on 802.3 objectives
  - Identified some possible areas for joint work with 802. 1
- Created 1st. Draft of 5 Criteria
- Continue to study the problem

# Draft Objectives D2 11/17/2004

- Auto-configuration of MAC/PHY, e.g., auto-negotiation, Auto MDI-X
- A mechanism to request/grant/assign resources and the default rule(s) for managing the resources (e.g., 802.3ah MPCP)
- Support both time-sensitive and best-effort traffic simultaneously, with some bandwidth reserved for best-effort traffic.
- Time-sensitive traffic only supported over 100Mb or greater full-duplex
- Time-sensitive traffic is not disrupted when any station/session is added or removed from the network
- Bounded maximum delay time-sensitive traffic (2ms end-to-end through network; 250us maximum through 1 hop; values to be validated in TF)
- Low jitter and approaching zero wander
- Network provides "house" clock for application synchronization within 5us.
- Based on existing 802.3 PHY(s)
- Supports IEEE 802.3 Power Over Ethernet

Adopted by RESG straw poll November 17, 2004 (4:27pm)

# Future Plans

- Meet at the January 2005 802.3 Interim Session to:
  - refine the existing and consider additional objectives
  - refine the existing and consider additional responses to the 5 Criteria
  - Generate Title, Scope and Purpose of PAR
  - Pre-circulate these documents to 802.3
  - At the March Plenary, request 802.3 to approve the Residential Ethernet project and recommend same to the EC/NESCOM (P802.3av?)
  - Keep the technical work moving

# Study Group Poll

Should the RESG be extended through the March 2005 Plenary Meeting?

- Y:  25     N:0           A: 0
- All voters, 25 people in the room

# **Motion**

Request that the IEEE 802.3 WG extend the Residential Ethernet Study Group to the next Plenary meeting.

Moved: Steve Carlson

Second: Richard Brand

Procedural 50% required:

Passed by acclamation

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# Future Meetings

- IEEE 802.3 Interim Meeting, January 24 – 28, 2005, Vancouver, CA

- IEEE 802 Plenary Meeting, March 13 – 18, Atlanta, GA

# Reflector and Web

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# Thanks!