
**Residential Ethernet Study Group
Closing Plenary Report
IEEE 802.3
Atlanta, GA
March 17, 2005**

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(acting for Steve Carlson, RESG chair)

Progress for the Week

- Held tutorial
- 6 Presentations addressing the Objectives
 - 1 presentation on naming
- Continued to study 802 layering
- Final Five Criteria / PAR
- Presentation to 802.1 WG to discuss cooperation
 - lively and productive discussion
 - will continue coordination, with much more interaction
- Discussed future plans

SG Motions/Straw Polls

- Motions
 - The RESG accepts the draft 5 Criteria on 1/25/2005
Y: 21 N: 0 A: 3
 - The RESG accepts the slightly revised draft on 3/14/2005
Y: 33 N: 0 A: 0
- Straw polls
 - How many people will participate in the TF if it is formed: 26
 - How many people are not currently participating in other 802.3 efforts: 21
 - How many enterprises will participate: 14



Residential Ethernet

5 Criteria

From 802.3 Operating Rules v5.5 July 2003
Note: “*” means further refinement is expected

Broad Market Potential

Broad set(s) of applications

Multiple vendors, multiple users

Balanced cost (LAN vs. attached stations)

- “Residential Ethernet” networks represent a new and very broad application space for Ethernet. The digital networking port* on consumer electronics (96 billion USD in 2003) equipment has not yet been decided, and 802.3/Ethernet has a strong possibility of being the dominant, long-term solution of choice if it is enhanced to provide time sensitive services.
- At the RE Study Group meetings, individuals from companies representing component suppliers, equipment vendors, service providers and users expressed their support for the project. Ethernet equipment vendors and customers are able to achieve an optimal cost balance and quality of service between the network infrastructure components and the attached stations.

*NOTE: 174 million ports in 2004; 2008 - 458 million; growth rate 21%, 50/50 wireless/wireline (3rd. Party Research)

MOTION

- Move that the word isochronous be changed to “time sensitive”
- Moved : Pat Thaler
- Second: x
- 802.3 voters: Y:voice N:x A:x
- Technical 75%
- PASSES

MOTION

- Move that 802.3 approve the residential ethernet criteria Broad Market Potential (as amended)
- Moved : Yong Kim
- Second: Alexei Beliaev
- 802.3 voters: Y:23 N:3 A:18
- Technical 75%
- **PASSES**

Compatibility with IEEE Std. 802.3

Conformance with CSMA/CD MAC, PLS

Conformance with 802.2

Conformance with 802.1D, 802.1Q, and 802.1F* (Not in Rules v 5.5)

Conformance with 802 Functional Requirements

- As an amendment to IEEE Std 802.3, the proposed project will remain in conformance with the 802 Overview and Architecture with the expected augmentation of the MAC service interface to support timing synchronization and time sensitive traffic.
- As an amendment to IEEE Std 802.3, the proposed project will remain in conformance with 802.1D, 802.1Q and 802.1f, though extensions to these standards may be proposed as additional work items.
- As an amendment to IEEE Std 802.3 the proposed project may require minimal augmentation of existing MAC specifications and will use existing full duplex PHYs.
- As an amendment to IEEE Std 802.3, the proposed project will follow the existing format and structure of 802.3 MIB definitions.

MOTION

- Move that 802.3 approve the residential ethernet criteria Compatibility
- Moved :Yong Kim
- Second: Dennis Lou
- 802.3 voters: Y:17 N:11 A:17
- Technical 75%
- FAILS

MOTION

- Move that the word isochronous be changed to “time sensitive” in the entire document
- Moved : Pat Thaler
- Second: x
- 802.3 voters: Y:voice N:x A:x
- Technical 75%
- **PASSES**

MOTION

- Move that 802.3 request to extend the resE study Group
- Moved : Barras
- Second: Flatman
- 802.3 voters: Y:40 N:0 A:7
- Procedural 50%
- **PASSES**

Straw poll on interim meetings

- participate: not doing .3:17 ... doing .3:7
- in May 9 Berlin/.1 :12
- body count:68

Reflector and Web

To subscribe to the Residential Ethernet Study Group
send an email containing the following text in the body of the message to:

`subscribe stds-802-3-re <yourfirstname> <yourlastname>`

to

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Residential Ethernet Study Group web page URL:

http://www.ieee802.org/3/re_study/

Thanks!