

**Updated after 802.3
closing plenary**

802.3 Frame Expansion Study Group *Closing Plenary Meeting Report*

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Progress this week (1/2)

- Peak attendance: **30**
- Reviewed *Open Issues* presentation, discussed:
 - False packet acceptance
 - Traditional Ethernet goal: Mean time to false packet acceptance > 10^8 years
 - CRC expertise needed to study bit bursts, frames up to 2,048 octets
 - Links with FEC (EPON)
 - Rate compensation (EFM Copper)
 - Use of “discovery mechanism”
 - New maximum frame size

Progress this week (2/2)

- **Added a few issues to the list:**
 - **Impacts to 802.3ad Link Aggregation?**
 - For load-balancing purposes, flow defined as DA, SA, CoS
 - **Order of prefix fields (related to 802.3ad issue)**
 - Should an 802.1QTag always be first?
 - **802.2 LLC support**
 - Length encoding w/ suffix field(s)
 - **Management attribute?**
 - Clause 30 port attribute (i.e., port_max_frame_size)
 - Clause 22/45 PHY attribute (i.e., PHY_max_frame_size)
 - **Possible liaison to ITU-T re: increasing frame size**
 - Developing next-generation DSL standards and using EFM Copper
 - **Reserve space for .3, allocate remained to MAC client?**

Straw poll: frame size

■ New max frame size preference:

	1,875 ¹	2,000 ²	2,048 ³	Other value	Don't care	Abstain	Total in room
9/04 FESG	5	3	1	-	-	-	9
11/04 FESG	4	6	4	-	-	-	28
11/04 .3 WG	0	13	8	2	3	17	~70

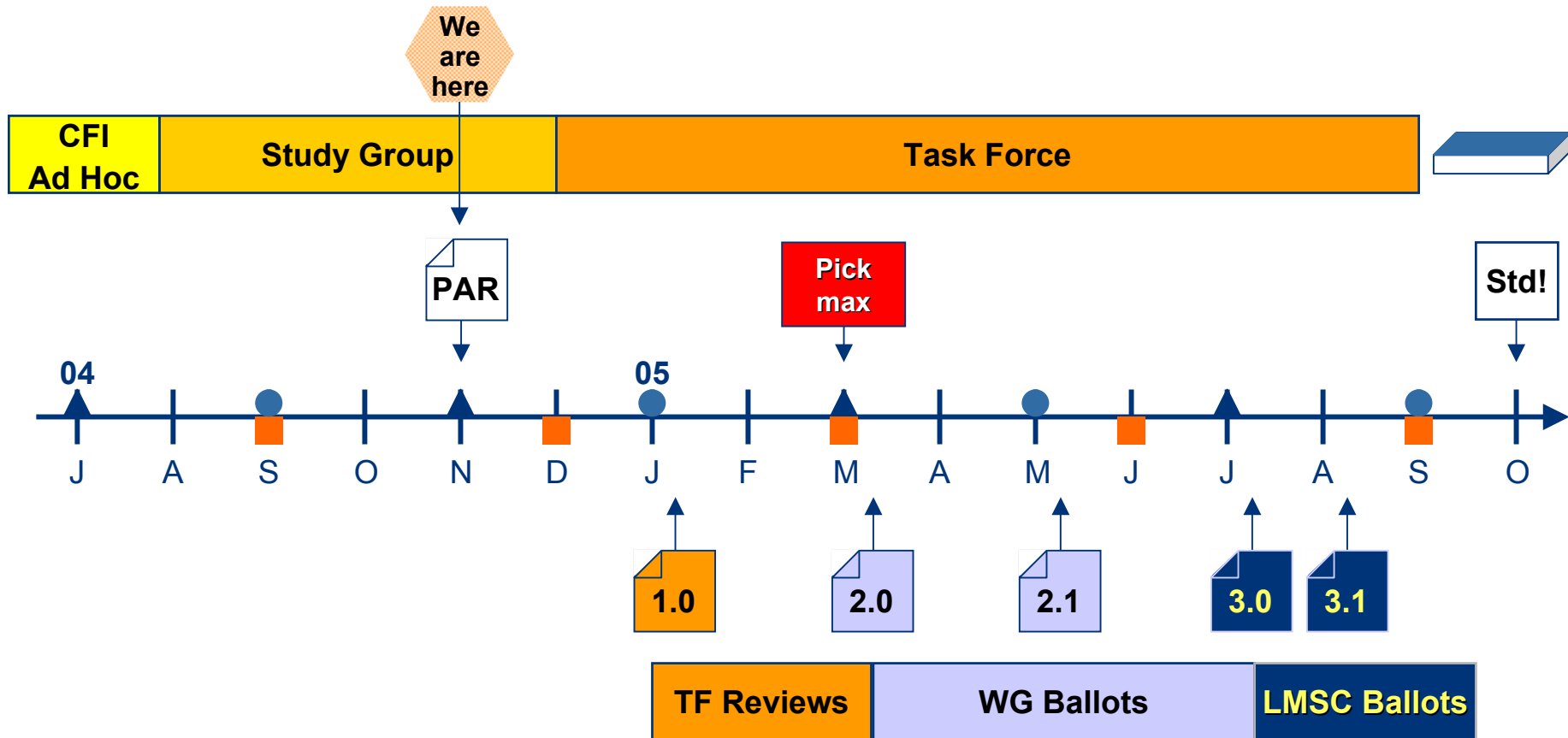
¹1,875 is the maximum for 10 Mb/s repeaters w/ 3-bit elasticity buffers

Spec requires 2.4288 bit elasticity buffers, assumes implementations use an integral number (3) and not 2.5 bits

²2,000 is 2KB minus some arbitrary space for an internal switch header

³2,048 is the maximum size from the 802.1 work request

Possible timeline (not adopted)



Legend

- ▲ IEEE 802 Plenary
- IEEE 802.3 Interim
- IEEE-SA Standards Board

Straw poll: mgmt/configuration

■ Should we:

- ...take the same cavalier attitude as 802.3ac and essentially do nothing? **0**
- Expose capabilities to management? **16**
- Provide auto-detection and configuration of frame size? **1**

- **26** in room

FESG Motion: #1

- Move that the compatibility criteria be changed to:
 - The express purpose of this project is to retain compatibility between IEEE 802.1 Bridges and the IEEE 802.3 MAC, necessitated by the development of IEEE 802.1ad Provider Bridges and 802.1AE MACSec envelope information.
 - This project will not affect compatibility of IEEE 802.3 networks with respect to the IEEE 802 Overview and Architecture or **significantly affect compatibility with IEEE 802.2 LLC Services.**
-
- Move: H. Barrass Second: M. McCormack
 - Technical: 75%
 - Y: 12 N: 0 A: 3 **Passed**

FESG Motion: #2

- Move that the distinct identity criteria be changed to:
 - There is no perceived technical challenge. Many **proprietary** implementations already exist that support the goals of this project
-
- Move: R. Brand **Second: Mike Geipel**
 - Technical: 75%
 - Y: 13 N: 0 A: 3 **Passed**

FESG Motion: #3

- **Move that 802.3 approve the Frame Expansion PAR and five criteria, per FESG_PAR_0409.pdf and FESG_5_criteria_0409.pdf as amended by November 2004 FESG motions #1 and 2.**

- **Move: H. Barrass Second: R. Brand**
- **Technical: 75%**
- **Y: 16 N: 0 A: 0 **Passed****

802.3 Motion: #

- **Move that 802.3 approve the Frame Expansion PAR and five criteria, per FESG_PAR_0411.pdf and FESG_5_criteria_0411.pdf**

- **Move: On behalf of Frame Expansion Study Group**
- **Technical: 75%**
- **Motion to amend (slide 11) voted first**
- **Motion to divide (slide 12) voted second**
- **Individual motions (slides 13-17) voted next**
- **This motion voted last of this list**
- **802.3 voters Y: 22 N: 0 A: 5**

802.3 Motion: #

- **Motion to amend the compatibility criteria (part of motion on slide 10)**

- **Move: Pat Thaler**
- **Second: David Law**
- **Technical: 75%**
- **802.3 voters Y: 18 N: 0 A: 21**
- **Passes**

802.3 Motion: #

- **Motion to divide motion on slide 10**

- **Move: Geoff Thompson**
- **Second: David Law**
- **Technical: 75%**
- **Passed by voice vote**

802.3 Motion: #

- **Move that 802.3 approve the Frame Expansion broad market criteria criteria, per FESG_5_criteria_0411.pdf**

- **Move: Second:**
- **Technical: 75%**
- **Y: 17 N: 0 A: 11**

802.3 Motion: #

- **Move that 802.3 approve the Frame Expansion compatibility criteria criteria, per FESG_5_criteria_0411.pdf**

- **Divided from earlier motion**
- **Technical: 75%**
- **Y: 24 N: 0 A: 8**

802.3 Motion: #

- **Move that 802.3 approve the Frame Expansion distinct identity criteria criteria, per FESG_5_criteria_0411.pdf**

- **Move: Second:**
- **Technical: 75%**
- **Y: 24 N: 0 A: 7**

802.3 Motion: #

- **Move that 802.3 approve the Frame Expansion technical feasibility criteria criteria, per FESG_5_criteria_0411.pdf**

- **Move: Second:**
- **Technical: 75%**
- **Y: 20 N: 0 A: 7**

802.3 Motion: #

- **Move that 802.3 approve the Frame Expansion economic feasibility criteria criteria, per FESG_5_criteria_0411.pdf**

- **Move: Second:**
- **Technical: 75%**
- **Y: 24 N: 0 A: 6**

FESG Motion: #4

- **Move that 802.3 approve the Frame Expansion SG objectives, per FESG_objectives_0409.pdf**

- **Move: R. Brand Second: H. Barrass**
- **Technical: 75%**
- **Y: 15 N: 0 A: 0 **Passed****

802.3 Motion: #

- **Move that 802.3 approve the Frame Expansion SG objectives, per FESG_objectives_0411.pdf**

- **Move: On behalf of Frame Expansion Study Group**
- **Technical: 75%**
- **802.3 voters Y: 23 N: 0 A: 5**

FESG Motion: #5

- **Move that 802.3 WG forward the Frame Expansion five criteria, per FESG_5_criteria_0411.pdf, to 802 SEC for approval**

- **Move: D. Law Second: H. Barrass**
- **Technical: 75%**
- **Y: 15 N: 0 A: 0 Passed**

802.3 Motion: #

- **Move that 802.3 WG forward the Frame Expansion five criteria and PAR, per FESG_5_criteria_0411.pdf and FESG_PAR_0411.pdf to 802 SEC for approval**
- **Move: On behalf of the Frame Expansion Study Group**
- **Move to amend: Brown, Brand (Voice vote)**
- **Technical: 75%**
- **802.3 voters Y: 29 N: 0 A: 6**

FESG Motion: #6

- **Move that 802.3 WG forward the PAR to the 802 SEC for approval**

- **Move: G. Parsons Second: D. Law**
- **Technical: 75%**
- **Y: 14 N: 0 A: 0 Passed**

802.3 Motion: #

- **Request that 802.3 WG extend the Frame Expansion SG (needed in the event the PAR is not approved by the Standards Board 12/8/04)**

- **Move: K. Daines Second: W. Diab**
- **Procedural: >50%**
- **802.3 voters Acclamation**

Future meetings

- **January 12, 2005 (one-day interim)**
 - Co-located with 802.1
 - Will have joint meeting w/ .1 Wed afternoon
 - Sacramento Hyatt Regency
 - <http://www.ieee802.org/1/meetings/>
- **March 13-18, 2005**
 - IEEE 802 Plenary, Atlanta
- **May, 2005**
 - IEEE 802.3 Interim, TBD
- **July 17-22, 2005**
 - IEEE 802 Plenary, San Francisco

Thank You!