IEEE 802.3WG
Opening Plenary Report

IEEE P802.3bj

100 Gb/s Backplane and Copper Cable Task Force

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Orlando, FL, USA, Mar 2013

IEEE P802.3bj Task Force Organization

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Hugh Barrass	Editor, Clauses 30, 45, 74, 78–85, Annexes 83A, 83C
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- To subscribe to the 100GCU reflector, send an email to:

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- Task Force web page URL:

  http://www.ieee802.org/3/bj/index.html

IEEE P802.3bj 100 Gb/s Backplane and Copper Cable Task Force Project Documents

- PAR
  - http://www.ieee802.org/3/bj/P802.3bj_1212.pdf
- 5 Criteria
  - http://www.ieee802.org/3/bj/5C_1112.pdf
- Objectives
  - http://www.ieee802.org/3/bj/objectives_0712.pdf
- Adopted Timeline)
  - http://www.ieee802.org/3/bj/timeline_1112.pdf

Task Force Private Area

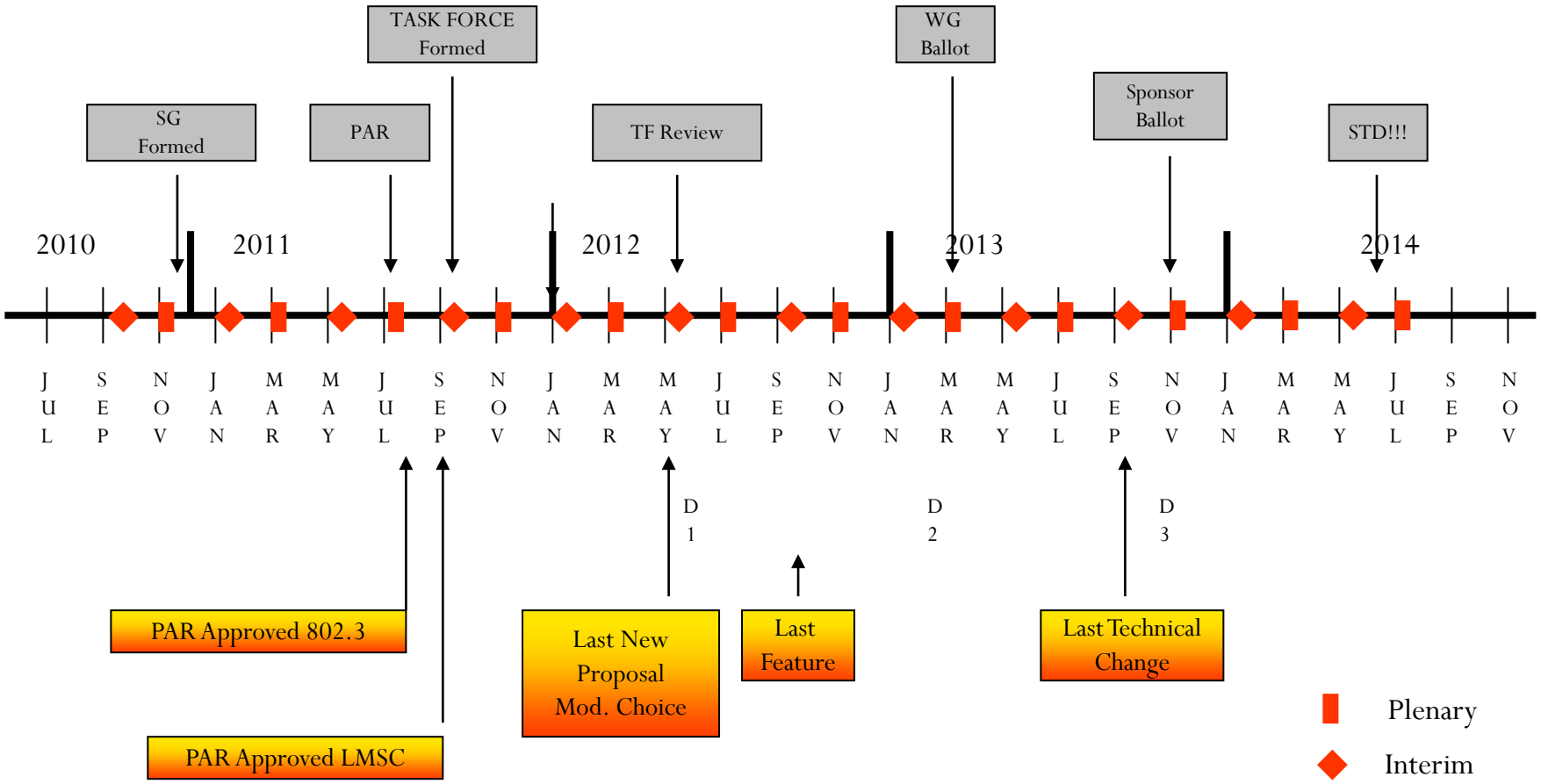
- URL: http://www.ieee802.org/3/bj/private/index.html
  - Username: XXXXXX
  - Password: XXXXXXXX
- Write it down…
- Note - The drafts within are posted for your review only, and neither the drafts nor access information should be copied or redistributed to others in violation of document copyrights.

IEEE P802.3bj Task Force Objectives

- Support full-duplex operation only
- Preserve the 802.3 / Ethernet frame format utilizing the 802.3 MAC
- Preserve minimum and maximum FrameSize of current 802.3 standard
- Support a BER of better than or equal to 10^{-12} at the MAC/PLS service interface
- Define a 4 lane PHY for operation over a printed circuit board backplane with a total channel insertion loss of <= 35 dB at 12.9 GHz**
- Define a 4 lane PHY for operation over a printed circuit board backplane with a total channel insertion loss of <= 33 dB at 7.0 GHz**
- Define a 4-lane 100 Gb/s PHY for operation over links consistent with copper twin-axial cables with lengths up to at least 5m.
- To define optional Energy-Efficient Ethernet operation for 100G Backplane and Twinaxial cable PHYs specified in P802.3bj*
- To define optional Energy-Efficient Ethernet operation for 100GBASE-CR10***
- To define optional Energy-Efficient Ethernet operation for 40GBASE-CR4 and 40GBASE-KR4***

Objectives approved by IEEE 802.3 WG July 2011 IEEE 802 Plenary
* Objective approved by IEEE 802.3 WG Nov 2011 IEEE 802 Plenary
** Objectives approved by IEEE 802.3 WG Mar 2012 IEEE 802 Plenary
*** Objectives approve by IEEE 802.3 WG July 2012 IEEE 802 Plenary

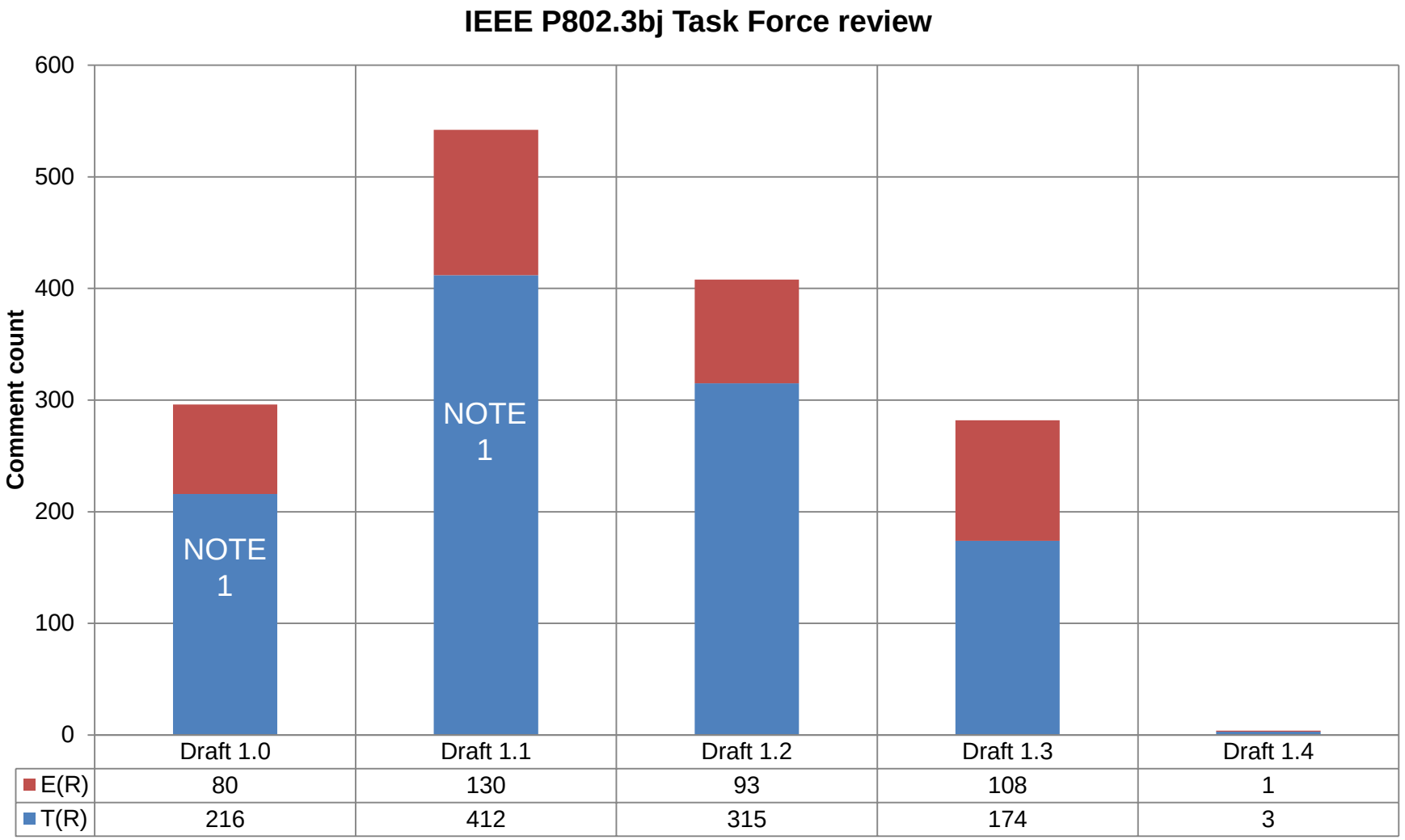
Adopted Timeline



Activities Since Nov 2012 Plenary

- Draft 1.3
  - posted 17 Dec 2012
  - Task Force review closed 4 Jan 2013
  - 282 comments from 20 participants
    - 1 late comment received
    - 5 comments withdrawn
- January 2013 Interim
  - Thanks Luxtera
  - 55 Attendees
  - 16 Technical Presentations
  - Resolved all comments
- Draft 1.4
  - Posted 21 Feb 2013
  - Task Force review closed 7 Mar 2013
  - 4 comments from 3 participants
    - –3 comments against Clause 91 (2 T, 1 E)
    - –1 comment against Annex 93A (T)

Comment History



	Draft 1.0	Draft 1.1	Draft 1.2	Draft 1.3	Draft 1.4
E(R)	80	130	93	108	1
T(R)	216	412	315	174	3

NOTE 1: 43 unresolved comments were carried over from Draft 1.0 and considered against Draft 1.1.

Goals for the meeting week

- Respond to all comments against D1.4
- Prepare for Working Group Ballot
- Request Working Group ballot

Thank You!