

# **IEEE P802.3bn EPoC PHY Task Force Closing Report**

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**IEEE 802.3 Working Group  
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Dallas, Texas, USA**

# EPoC Team

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- Vice Chair
  - Steve Shellhammer
- Editors
  - Duane Remein, Chief Editor
  - Marek Hajduczenia
  - Saif Rahman
  - Joe Solomon
- Secretary
  - Volunteer du meeting

# Reflector and Web

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- **Email**
  - [stds-802-3-epoc@listserv.ieee.org](mailto:stds-802-3-epoc@listserv.ieee.org)
  - 304 subscribers
- **Web Page**
  - <http://www.ieee802.org/3/bn>
  - Note: includes ad hoc committee areas
- **Private Area (for draft documents)**
  - <http://www.ieee802.org/3/bn/private>
  - Liaisons, Draft D0.1
  - User: 802.3bn
  - Pass: XXXXXX

# Activities This Week

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- Met:
  - Tuesday 8AM to 6:30 PM
  - Wednesday 8AM to 6:00 PM
  - Thursday 8AM to 12:45 PM
  - Note: plenary weeks do not give us enough time
- 46 attendees
- 23 presentations
- 17 technical motions considered
  - 14 passed
  - 3 failed
- 3 straw polls
- A much larger amount of baseline and near baseline text in process

# Technical Motion Summary

#	Text	Y	N	A	P/F
3	Move to accept in bulk the comment resolutions for all Editorial comments as recorded in 8023bn_draft0d2_proposed_responses.pdf	24	0	2	P
4	Adopt the upstream codeword filling algorithm from prodan_3bn_01_1113.pdf pages 2, 3, 4 and 12 for EPoC.	24	0	4	P
5	Adopt the constellation mapping procedure in prodan_3bn_02_1113.pdf pages 2-4 and 6-7 for EPoC.	23	0	7	P
6	Adopt rahman_saif_3bn_02_1113.pdf as baseline proposal for PMD Downstream Electrical Input/Output. (NOTE: 11 pages baseline adapted from DOCSIS 3.1 PHY I01)	25	0	1	P
7	Adopt the LDPC FEC codes in shen_3bn_01_1113.pdf: The (128,80) punctured LDPC code with 24-bit CRC for initial ranging on BPSK pages 3 and 5. The (362,272) shortened and punctured LDPC code for fine ranging on QPSK page 7.	28	0	1	P
8	Adopt zhang_3bn_02a_1113.pdf pages 5 to18 as a starting point towards baseline proposal for the procedure of updating the bit loading profiles for downstream, excluding block mode operation.	16	8	8	F

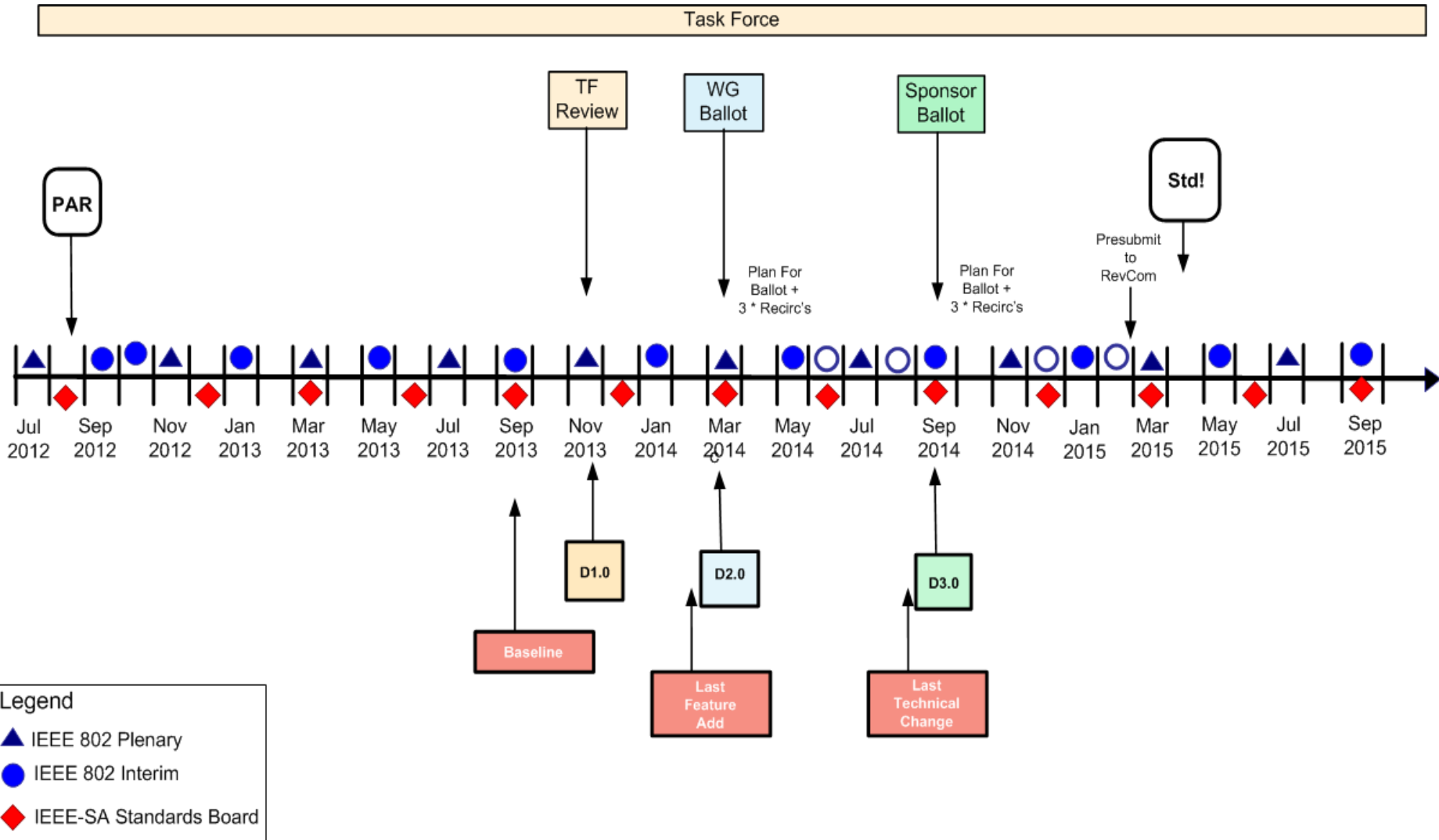
# Technical Motion Summary

#	Text	Y	N	A	P/F
9	Adopt rahman_syed_3bn_02_1113.pdf as a baseline proposal for the upstream wideband probing.	30	0	4	P
10	Adopt kliger_3bn_01a_1113.pdf Slide 5 as a baseline proposal for CNU upstream Tx. (NOTE: upstream block diagram)	36	0	0	P
11	Support for 2048 and 4096 QAM in the TDD upstream shall be mandatory, using the same QAM constellation mapping as the FDD downstream.	27	0	8	P
12	Adopt rahman_syed_3bn_01_1113.pdf as the base line proposal for the burst markers. "Power boosting for Burst Marker sequences" section is removed and T.B.D.	18	0	12	P
13	Adopt "NCP in the Data Path" approach as described in laubach_3bn_03c_1113.pdf pages 5-8 as a replacement for "NCP in the PLC" approach.	14	10	9	F
14	Adopt laubach_3bn_04c_1113.pdf as the baseline starting point for EPoC downstream; (NOTE: 59 pages starting point text adapted from DOCSIS 3.1 PHY I01)	33	0	0	P
15	Create a new clause to address PHY-Link and incorporate into the draft.	31	0	0	P

# Technical Motion Summary

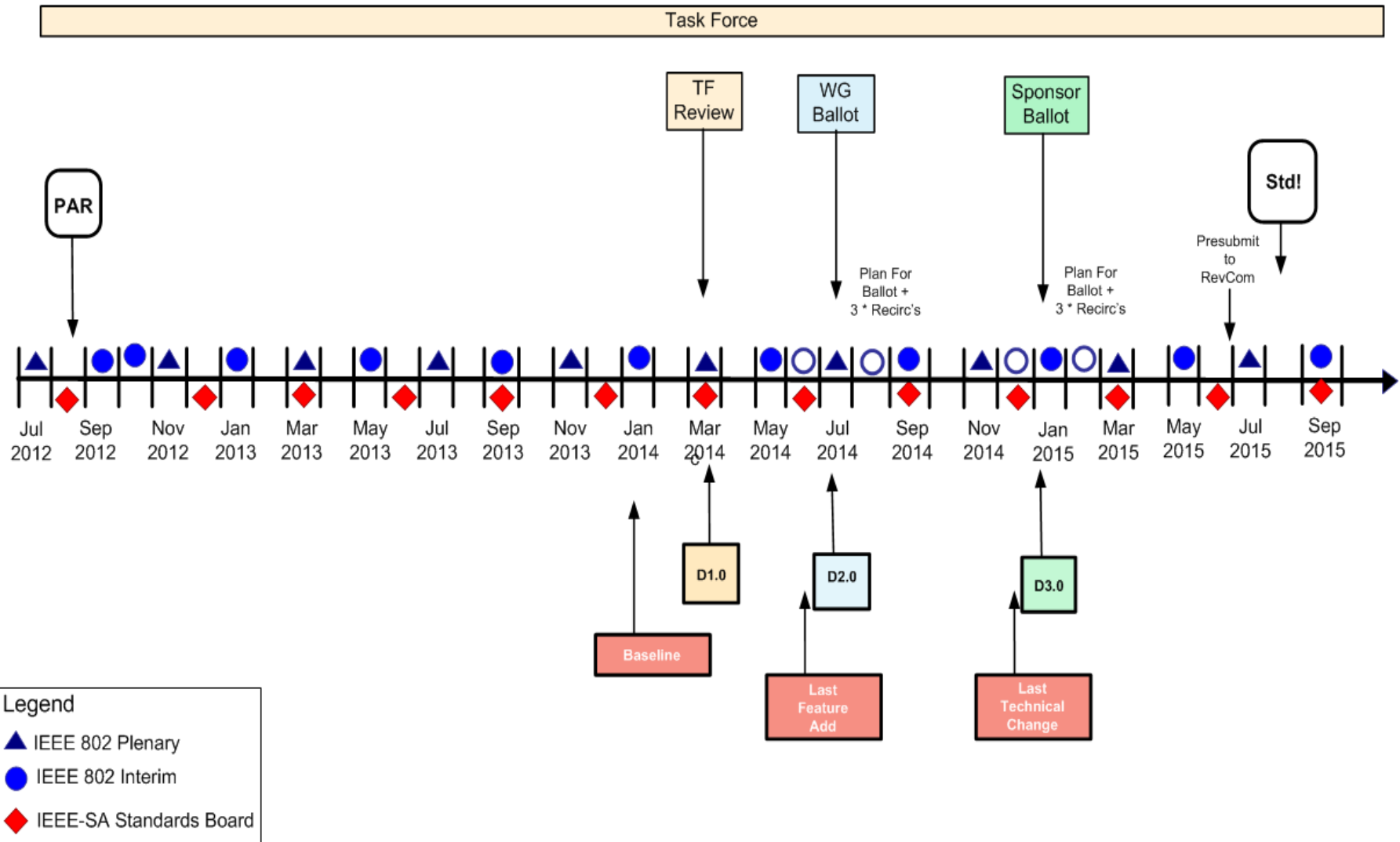
#	Text	Y	N	A	P/F
16	Adopt changes proposed in remain_3bn_06_1113.pdf “CI-102 Issues and Solutions” slides 14-18 & 20-21 and incorporate into the draft.	16	3	13	P
17	Accept remain_3bn_07_1113.pdf and remain_3bn_08_1113.pdf as PHY-Link baseline material and incorporate into the draft. Include PLC material extracted from laubach_3bn_04c_1113.pdf. All material goes into the new PHY-Link Clause.	30	0	0	P
18	Authorize the Editors to create Draft 0.3 from Draft 0.2 by incorporating approved baseline and comment resolution material from the November 2013 meeting.	35	0	0	P
19	Separate P802.3bn work into two efforts: 1) EPoC FDD single channel working under existing PAR, focused to meet market needs; 2) Move the TDD work to second track to be developed under a new 802.3 project, including EPoC TDD Mode, Multi-channel for both modes, MMP, and other enhancements into second project. (NOTE: lot of debate, heated, roll call vote.)	16	13	6	F

# Task Force Timeline (previous 3/21/13)





# Task Force Timeline (updated 11/14/13)



# Next Meeting

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- January 802.3 Interim, Indian Wells
- Intend to meet for full 3.0 days
  - Goal: exit January meeting with sufficient baseline material to permit Editors to create Task Force Draft 1.0

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# Thank You!