

Overview of Potential Impact to IEEE P802.3bs Project Schedule

Next Generation 100 Gb/s Ethernet &
200 Gb/s Ethernet Study Group

John D'Ambrosia

Futurewei, a subsidiary of Huawei

Jan 6, 2016

Foreword

- This presentation is not an endorsement of any proposed technical solutions or courses of action.
- This presentation is a discussion of potential impact of objectives (post-SG survey results) and potential scenarios and impact on the IEEE P802.3bs project timeline.

Consideration of Objectives

- What if the Next Gen 100GbE / 200GbE Study Group proposed modifying the 802.3bs PAR?
 - IMO – 802.3bs schedule needs to be minimally impacted to achieve consensus for endorsement by 802.3bs
- First question – what are the objectives?
- dambrosia_01_010616_50GE_NGOATH_adhoc.pdf assumed 200GbE objectives perceived as non-controversial (based on discussion of anslow_120915_50GE_NGOATH_adhoc) that would leverage 400GbE solutions and have minimal impact on 802.3bs schedule.
- Is this a valid assumption? CONSENSUS KEY!
 - Consensus on leveraging 400GbE technology for 200GbE Objectives?
 - Are explicit objectives needed that tie 200GbE objectives to 400GbE solutions? Not obvious what such objectives would be.

Consideration of Timeline

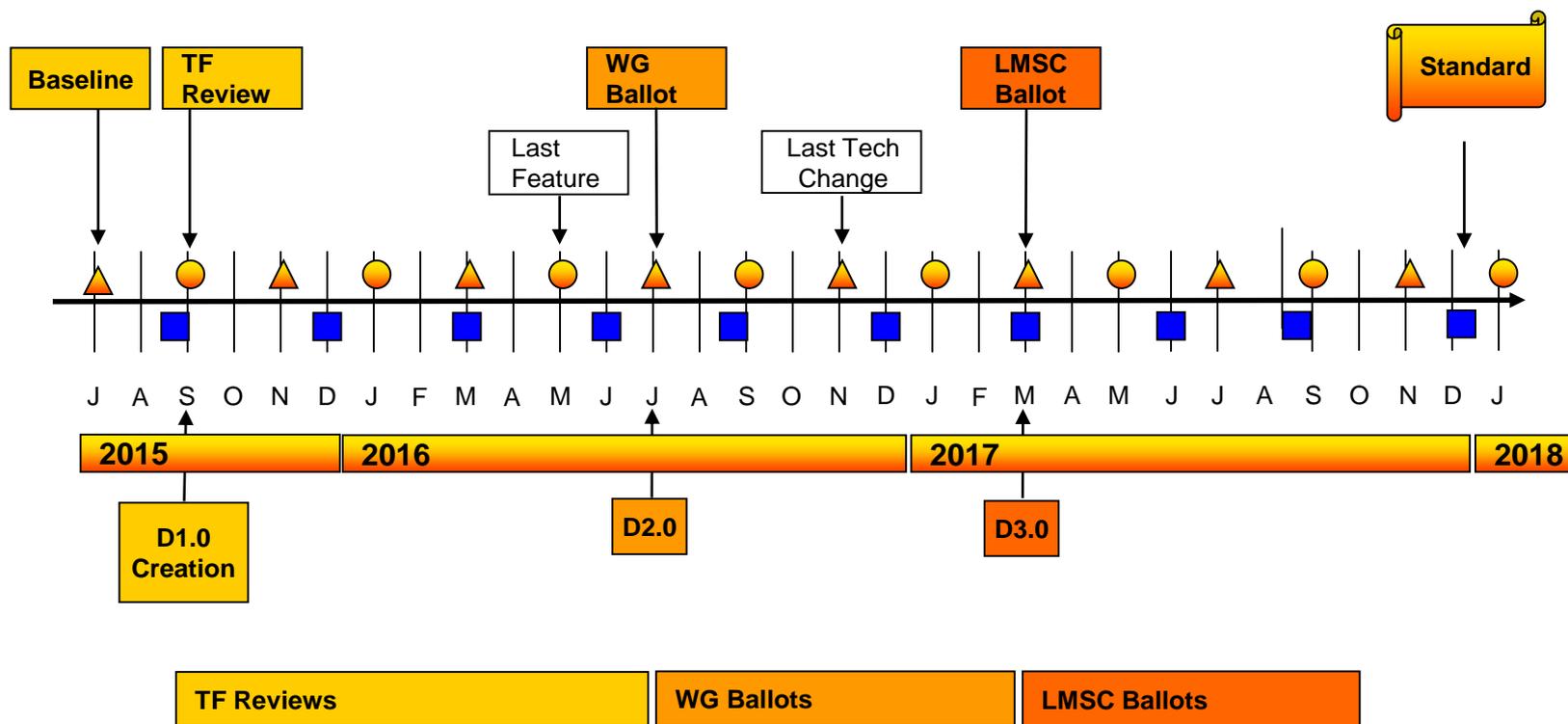
- What if the Next Gen 100GbE / 200GbE Study Group proposed modifying the 802.3bs PAR?
 - Option #1 – not accepted – original schedule
 - Option #2 – accepted – target maintaining original schedule
 - Option #3 – accepted – other potential scenarios
 - WG Ballot request delayed until Sept
 - PAR modification request not made until July
 - PAR modification request made after WG Ballot initiated
- For analysis of timeline impact
 - Options #1 and #2 – see appendix
 - Option #3 – not analyzed at this point

Potential Impact to 802.3bs Schedule

- Option #1
 - Any schedule hit related to lack of technically complete draft
- Option #2 – target “no schedule hit”
 - Assumption of March PAR Modification Request
 - PAR modification approval – anticipate May 16 final approval
 - Assumption - Consensus on re-use of 400GbE adopted baselines
 - Need June 27 – 28 Interim, create D1.5
- Option #2 is doable but “**A MATTER OF CONSENSUS**”
 - Consensus to propose PAR modification to 802.3bs out of Jan?
 - Consensus to leverage 802.3bs 400GbE adopted baselines?
 - Consensus for 802.3bs endorsement?
- in my opinion –
 - Consensus will dictate how fast we can move.
 - Extended debate on objectives / technical solutions will impact willingness of P802.3bs TF to endorse its PAR modification.

APPENDIX

IEEE P802.3bs 400GbE Adopted Timeline



Adopted by IEEE P802.3bs 400GbE Task Force, Sept 2015 Interim.

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

Option 1 - Current Schedule

Key Dates / Moments

- To Request Working Group Ballot in July - document must be complete with no open technical issues
 - Out of Jan: Draft 1.2
 - Out of Mar: Draft 1.3
 - Out of May: Draft 1.4 **(MUST BE TECH. COMPLETE)**
- It must be made available for pre-view by the membership at least 10 days prior to the Working Group meeting where the draft will be considered.
 - For July 24-29, 2016 Plenary – Preview will need to be available **July 18**

Option 2 - Key Dates / Moments

- PAR Modification
 - Endorsement by 802.3bs in Jan (re-endorsement in Mar if significant modifications made in March by SG)
 - PAR modification submission – Feb 12
 - PAR modification approval
 - Mar Plenary IEEE 802.3 / 802 EC
 - May @ Stds Board – by May 16
- To Request Working Group Ballot in July - document must be complete with no open technical issues
 - Out of Jan: Draft 1.2
 - Out of Mar: Draft 1.3
 - Out of May (Week 5/23): Draft 1.4
 - Goal 400GbE Technically Complete
 - Add 200GbE to draft
 - New June Interim (June 27-28) - Draft 1.5 must be technically complete
 - Preview available July 18