

Next Steps towards Baselines and the Draft Specification

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Preface

- For an excellent guide on the path to a completed standard, see Pete Anslow's contribution to P802.3by:
 - http://www.ieee802.org/3/by/public/Jan15/anslow_3by_01_0115.pdf
- Also, I leveraged some great material from Mark Nowell:
 - http://www.ieee802.org/3/cd/public/May16/agenda_3cd_01a_0516.pdf

Steps to a completed Standard

Now that the Task Force has been formed*, the steps that have to be completed are:

- Adopt baselines needed to fulfill the objectives
- Create initial draft version (D1.0)
- Task Force review (D1.x)
- Working Group ballot (D2.x)
- Sponsor ballot (D3.x)
- Final approvals & publication!

We are here



* Pending NesCom approval

Baselines

- For a project defining a new Ethernet rate a new set of clauses and associated annexes will need to be generated for almost all of the sublayers on the previous slide. The style and some of the content for these new clauses and annexes will, however, likely be derived from existing 802.3 clauses and annexes.
- The major technical details for each of these clauses and annexes is defined via a set of baseline documents which the proponents put together and try to gain consensus for.
- Baselines can contain some “TBD” elements, but these should be kept to a minimum.
- Each of the baseline documents is then adopted by a motion of the Task Force (requiring $\geq 75\%$ approval as they are technical).
- The baselines are the basis for the draft specification so they need to include enough information for the editors to be able to create a draft.

More on Baselines

- A baseline proposal must contain sufficient detail so that an editor can draft text without having to infer any significant technical material
 - Baseline proposals must be complete and definitive
- A baseline proposal should have a limited scope
 - They typically address one objective or one sublayer
 - A consistent set of baselines may be adopted in the same meeting
- A baseline proposal must meet all of the Criteria for Standards Development (CSD)
- The full set of baselines need to address the adopted set of objectives.
- It is ok for competing proposals for the same item to be developed in parallel
 - The best proposals will gain the most support with time

Timeline Comparison

Task Force	TF Formed	Baselines adopted	TF Review Complete	WG Ballot complete
IEEE 802.3ba	1/2008	+6 months	+6 months	+8 months
IEEE 802.3bj	9/2011	+8 months	+10 months	+8 months
IEEE 802.3bm	9/2012	+8 months	+6 months	+6 months
IEEE 802.3bs	5/2014	+14 months	+12 months	+8 months
IEEE 802.3by	1/2015	0 months	+6 months	+4 months
IEEE 802.3cd*	5/2016	+4 months	+8 months	+6 months

Introduced 25G electrical SERDES

Introduced 50G electrical SERDES

- Project duration strongly dependent on many factors:
 - Maturity & complexity of technology being specified
 - Ability to leverage existing work in IEEE or elsewhere in industry
 - Industry consensus

Goals

- Review and consider a timeline in July
- Target baseline adoptions in September and/or November meetings

Thanks!