

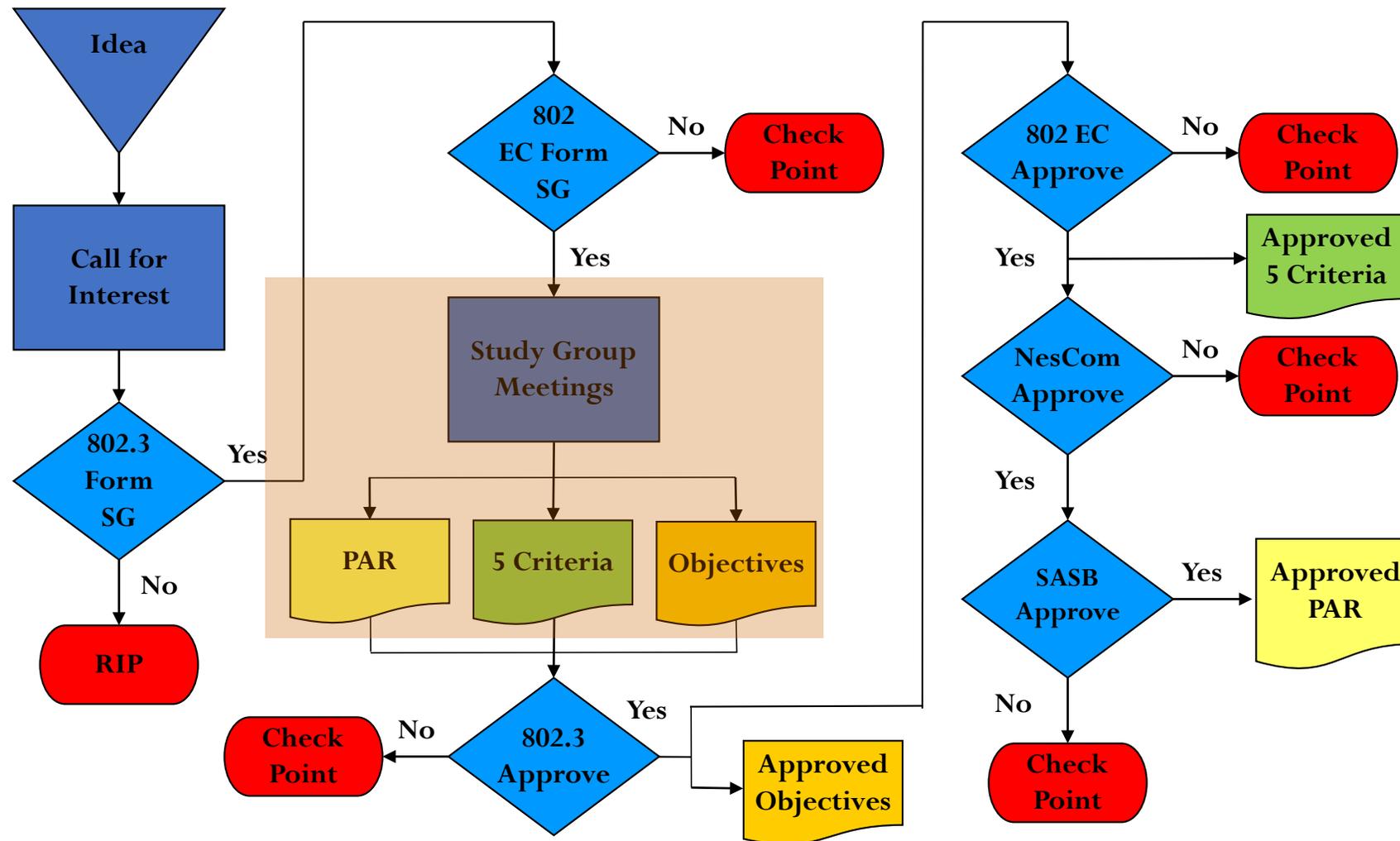
IEEE 802.3 Beyond 10km Optical PHYs SG - Schedule Discussion

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Foreword -

- Presentation is being given with my “Chair” hat on.
 - None of this discussion should be interpreted as an endorsement of any objective or proposal by me.
- Based on objectives, as adopted by Study Group out of March 2018 Plenary
 - http://www.ieee802.org/3/B10K/project_docs/objectives_180308.pdf
 - Potential 200GbE / 400GbE objectives shown in grey text

Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase



Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

Possible Timelines Going Forward

	Date	Option #1*	Option #2
May 18 Interim	5/21 – 5/25	SG Proj Doc Approval	SG Meeting
Pre-circulate Project Documentation (30 days)	6/8	Submit Project Doc	N/A
July 18 Plenary	7/9 – 7/12	WG / EC Approval	SG Meeting
Sept 18 Interim	9/10 – 9/14	SG Meeting	SG Proj Doc Approval
Sept 18 IEEE-SA Standard Board Meeting	9/27	Approval?	N/A
Pre-circulate Project Documentation (30 days)	10/12	N/A	Submit Project Doc
Nov 19 Plenary	11/12 – 11/15	1 st TF(s) Mtg (Pending approvals)	WG / EC Approval
Dec 18 IEEE-SA Standard Board Meeting	12/3 – 12/5	N/A	Approval?
Jan Interim	1/14 – 1/18	2 nd TF Mtg	1 st TF(s) Mtg (Pending approvals)

* Assumes no additional interim meetings

PAR Item 4.2 and 4.3 Project Dates

- 4.2 Expected Date of submission of draft to the IEEE-SA for Initial Sponsor Ballot:
- 4.3 Projected Completion Date for Submittal to RevCom:
- Discussion
 - What are reasonable dates?
 - 50GbE / 200GbE / 400 GbE 40km objectives –
 - Anticipation that existing IEEE 802.3 PAM4 based physical layer specifications can be heavily leveraged
 - 100GbE / 200GbE / 400GbE 80km objectives –
 - Potential leverage of some IEEE 802.3 specifications,
 - Potential leverage of ITU-T / OIF specifications.
 - Coherent / DWDM not specified by IEEE 802.3 previously

Observations (dambrosia_b10k_01_1117)

- Based on my discussions, there are individuals who believe
 - PAM4 solutions could address some possible objectives
 - Coherent solutions could address some possible objectives
 - Either PAM4 or coherent solutions could address the same possible objectives
- Technical analysis / decisions are necessary.

Moving Forward (dambrosia_b10k_01_1117)

- Develop Project Documentation for a single project for approval
- Technical analysis during Task Force will lead to resolution of choice of technologies for different objectives
- Re-evaluate technical choices / potential timelines / program structure / and consider breaking effort into multiple projects, if necessary
- If necessary, develop updated project documentation for multiple efforts

Moving Forward

- Adopted objectives
 - Provide a physical layer specification which supports 50 Gb/s operation over at least 40 km of SMF
 - Provide a physical layer specification which supports four-lane 200 Gb/s operation over at least 40km of SMF.
 - Provide a physical layer specification supporting 100 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system.
- Other possible objectives
 - Provide a physical layer specification which supports eight-lane 400 Gb/s operation over at least 40km of SMF.
 - Provide a physical layer specification supporting 200 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system.
 - Provide a physical layer specification supporting 400 Gb/s operation on a single wavelength capable of at least 80 km over a DWDM system.
- Should single PAR at this time be re-evaluated?