Agenda and General Information

IEEE 802.3 400 Gb/s Ethernet Study Group

> John D'Ambrosia, Dell Geneva, Switzerland IEEE 802 July 2013 Plenary

Agenda

- Appointment of Recording Secretary
- Welcome and Introductions
- Approve Agenda
- Goals for this meeting
- Reflector and Web
- Ground Rules
- IEEE
 - Structure
 - Bylaws and Rules
 - Guidelines for IEEE-SA Meetings
 - IEEE Standards Process
- Presentations
- Discussion, Straw Polls, Motions
- Closing Business
 - Liaisons and Communications
- Future Meetings

Task Force Decorum



- Photography or recording by permission only (2010 SASB Op Manual 5.3.3.4)
- Cell phone ringers off
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (5.3.3.5)
- Wear your badges at all times in meeting areas
 - Help the hotel security staff improve the general security of the meeting rooms
 - PCs HAVE BEEN STOLEN at previous meetings
 - DO NOT assume that meeting areas are secure
- Please observe proper decorum in meetings

Goals for the meeting week

- Hear presentations (22) related to Objectives and 5 Criteria
- Develop consensus on PAR / Objectives
- Update on Time Sync Activities
- Potential liaison to TIA on single-mode connector return loss (see next slide).
- Lay the ground work for the next meeting

Reflector and Web

To subscribe to the 400G reflector, send an email to:

ListServ@ieee.org

with the following in the body of the message (do not include "<>"):

subscribe stds-802-3-400G <yourfirstname> <yourlastname> end

Send 400G reflector messages to:

STDS-802-3-400G@listserv.ieee.org

Task Force web page URL:

http://www.ieee802.org/3/400GSG/index.html

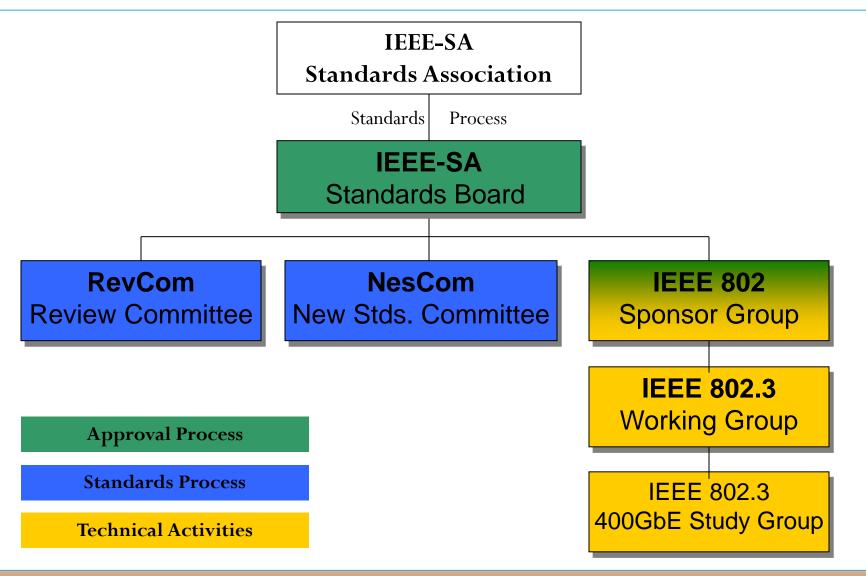
Ad hoc area URL:

http://www.ieee802.org/3/400GSG/public/adhoc/index.shtml

Ground Rules

- Based upon IEEE 802.3 Rules
 - Foundation based upon Robert's Rules of Order
 - Anyone in the room may speak
 - Anyone in the room may vote
- RESPECT... give it, get it
- NO product pitches
- NO corporate pitches
- NO prices!!!
 - This includes costs, ASPs, etc. no matter what the currency
- NO restrictive notices

IEEE Structure



Important Bylaws, Rules, & References

IEEE-SA Operations Manual

http://standards.ieee.org/sa/sa-om.pdf

IEEE-SA Standards Board Bylaws

http://standards.ieee.org/guides/bylaws/sb-bylaws.pdf

• IEEE-SA Standards Board Operations Manual http://standards.ieee.org/guides/opman/sb-om.pdf

 IEEE 802 LAN/MAN Standards Committee (LMSC) Policies and Procedures

http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf

- IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual <u>http://www.ieee802.org/PNP/2010-07/IEEE_802_LMSC_OM_approved_100716.pdf</u>
- IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG)
 Policies and Procedures

http://www.ieee802.org/PNP/2010-07/IEEE_802_LMSC_WG_PandP_approved_100716.pdf

• IEEE 802.3 Working Group Operating Rules http://ieee802.org/3/rules/P802_3_rules.pdf

 "Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy"

http://standards.ieee.org/develop/policies/antitrust.pdf

Guidelines for IEEE-SA Meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
- Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
- Don't discuss specific license rates, terms, or conditions.
 - Relative costs, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
 - Technical considerations remain primary focus
- Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
- Don't discuss the status or substance of ongoing or threatened litigation.
- Don't be silent if inappropriate topics are discussed... do formally object.

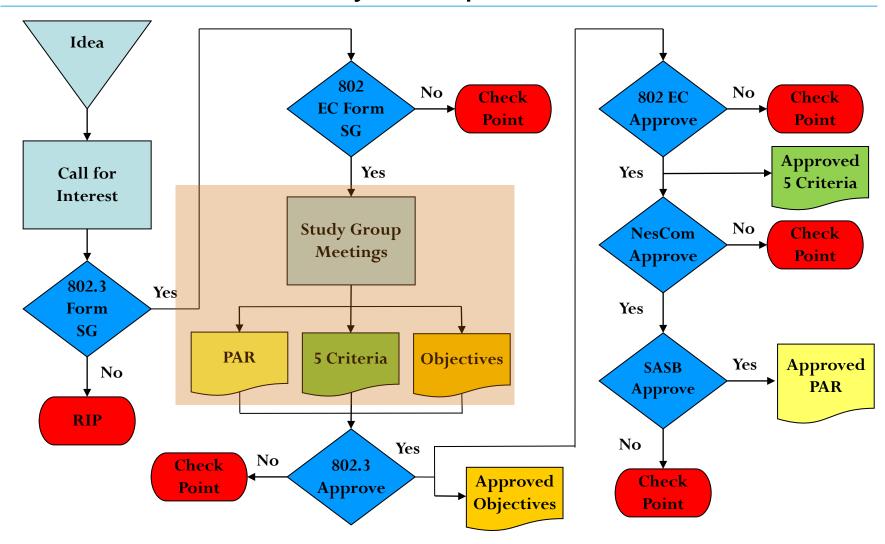
If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit http://standards.ieee.org/about/sasb/patcom/index.html

See IEEE-SA Standards Board Operations Manual, clause 5.3.10 and "Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy" for more details.

This slide set is available at https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt

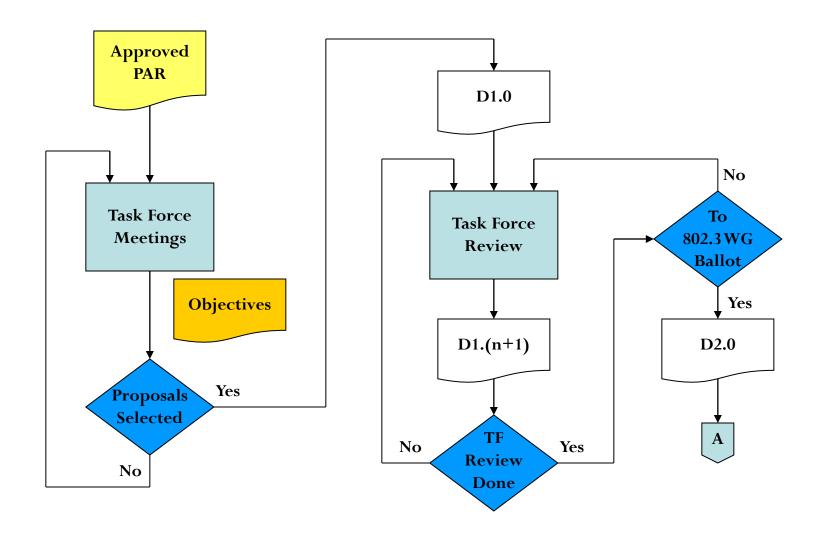


Overview of IEEE 802.3 Standards Process (1/5)-Study Group Phase

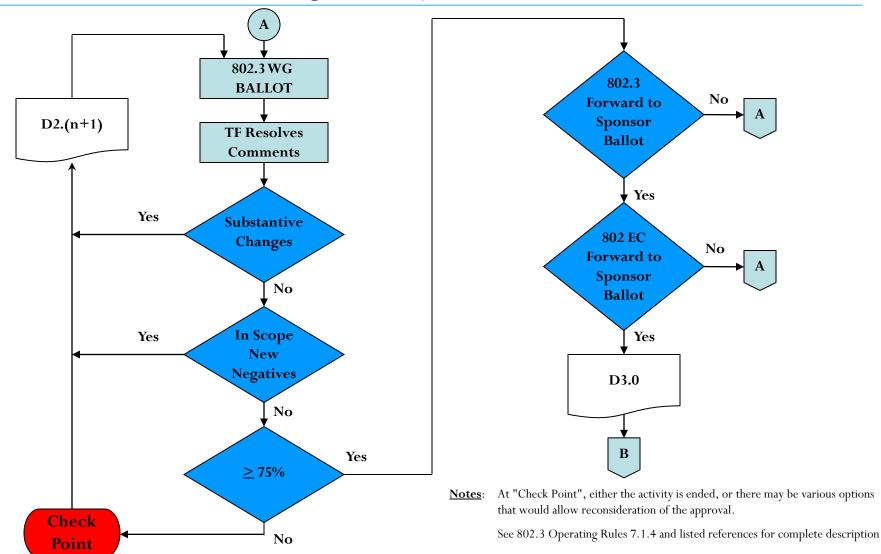


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

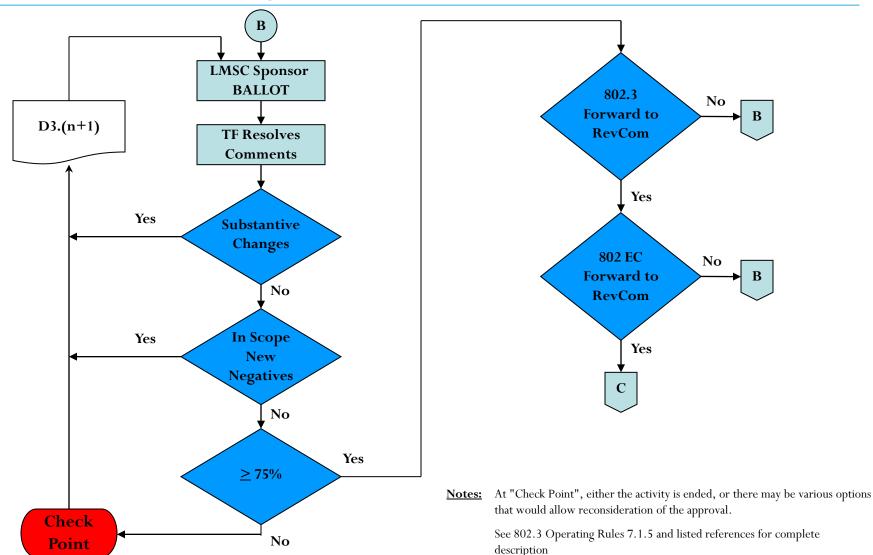
Overview of IEEE 802.3 Standards Process (2/5) – Task Force Comment Phase



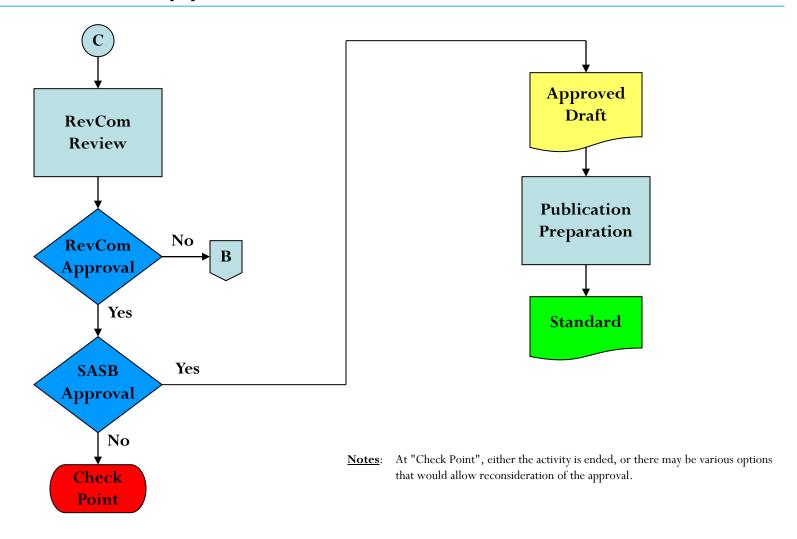
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



Overview of IEEE 802.3 Standards Process (4/5)-Sponsor Ballot Phase



Overview of IEEE 802.3 Standards Process (5/5) – Final Approvals / Standard Release



Liaisons and Communications

None received

- A liaison to TIA has been proposed to address "Harmonizing Singlemode Connection Return Loss."
 - Reference bhatt_400_01_0713.pdf

Harmonizing Singlemode Connection Return Loss



- There is a need to harmonize single-mode connection return loss spec of TIA (26 dB) with that of ISO/IEC (35 dB).
- For 400 Gb/s and higher Ethernet rates, MPI Noise resulting from Return Loss will be a key source of performance impairment.
- The state of the art today comfortably achieves 35+ dB.
- Therefore, it is prudent for us to take the initiative of recommending to the TIA to consider such harmonization.
- Reference: bhatt_400_01_0713.pdf.

Tuesday

Time	Presenter	Affiliation	Title	File Name
8:30 AM	John D'Ambrosia	Dell	Agenda and General Information	agenda_400_01_0713.pdf
9:00 AM	Mark Gustlin	Xilinx	Logic Ad hoc Update	gustlin_400_01_0713.pdf
9:15 AM	Vipul Bhatt	Cisco	Harmonizing Connector Return Loss	bhatt_400_01_0713.pdf
9:45 AM	Arien Vijn	AMS-IX	End user perspective on 400Gb/s Ethernet	vijn_400_01_0713.pdf
10:15 AM	Break			
10:30 AM	Randy Rannow	APIC	400G: Physics, Economics, & Business	rannow_400_01_0713.pdf
11:00 AM	Tom Palkert	Luxtera	Requirements for Broad Market Potential	palkert_400_01_0713.pdf
11:30 AM	Lunch			
1:00 PM	Song Xiaolu	Huawei	Perspective and Scenario of Core Router on 400GbE	song_400_01_0713.pdf
1:30 PM	David Ofelt	Juniper	BER Objective for 400GE	ofelt_400_01_0713.pdf
2:00 PM	Steve Trowbridge	Alcatel-Lucent	OTN Support: What is it why is it important?	trowbridge_400_01_0713.pdf
2:30 PM	Zhao Wenyu	China Academy of Telecom. Research (CATR), MIIT	400GE SMF considerations	zhao_400_01_0713.pdf
3:00 PM	Break			
3:15 PM	Riu Hirai	Hitachi	Initial thought about Modulation format &	hirai_400_01_0713.pdf
3:45 PM	Toshiki Tanaka	Fujitsu	Considerations on transmission distance of	takahara_400_01_0713.pdf
4:15 PM	Wael Diab	Broadcom	EEE Overview and Proposal for an Objective	diab_400_01_0713.pdf
4:45 PM	Jeff Maki	Juniper	Long Shelf-Life Electrical Interfaces	maki_400_01_0713.pdf
5:15 PM	Jack Jewell	Independent / CommScope	MMF Capabilities for 400-Gigabit Ethernet, and Beyond	jewell_400_01_0713.pdf
5:45 PM	Break for Day			

Note -Times listed are subject to change.

Wednesday

8:30 AM	John D'Ambrosia	Dell	ell Day's Opening Comments				
8:40 AM	Ali Ghiasi	Broadcom	Scalable 400 GbE Arictecture	ghiasi_400_01_0713.pdf			
9:10 AM	Mark Gustlin	Xilinx	400 Gb/s PCS architectural options	gustlin_400_02_0713.pdf			
9:40 AM	zhongfeng Wang	<u>Broadcom</u>	400GbE Lane Configurations vs. FEC Options	wang_400_01_0713.pdf			
10:10 AM	Break						
10:25 AM	Gary Nichol	Cisco	Musings on FEC Objective for 400 Gb/s Ethernet	nichol_400_01_0713.pdf			
11:00 AM	Michael Teener	Broadcom	Time Synch	teener_400_01_0713.pdf			
12:00 PM	Lunch						
1:30 PM	Suping Zhai	Huawei	The Requirement Analysis of 400GE FEC for Gen1 PMDs	zhai_400_01_0713.pdf			
2:00 PM	John D'Ambrosia	Dell	Architecture and FEC	dambrosia_400_02_0713.pdf			
2:30 PM	Brad Booth	Independent	PSM in the Data Centre Survey	flatman_400_01_0713.pdf			
3:00 PM	Break						
3:15 PM	Brian Holden	Kandou Bus	An exploration of the technical feasibility of the major technology options for 400GE backplanes	holden_400_01_0713.pdf			
3:45 PM	Nathan Tracy	TE Connectivity	Backplane Channels Using Embedded Capacitor Connectors for Data Rates 25Gbps or higher	tracy_400_01_0713.pdf			
4:15 PM	David Law	HP	Proposed PAR	dambrosia_400_01_0713.pdf			
4:45 PM	Discussion & Strawpolls						
6:00 PM	Break for Day						

Note -Times listed are subject to change.

Thursday

9:00 AM	John D'Ambrosia	Dell	Da	ny's Opening Comments			
9:10 AM	Disccusion, Strawpolls Motions						
10:30 AM	Break						
10:40 AM	Disccusion, Strawpolls Motions						
11:40 AM	Closing Business						
12:00 PM	Adjourn						

Note –Times listed are subject to change.

Future Meetings

- See: http://www.ieee802.org/3/interims/index.html
- Sept 2013 Interim (hosted by ADVA)
 - Week of Sept 2
 - York, UK
- Nov 2013 Plenary
 - Week of Nov 10
 - Hyatt Regency, Dallas, TX, USA
- January 2014 Interim
 - Week of January 20
 - Hyatt Regency Indian Wells, CA
- Anyone interested in hosting a meeting contact me.

Thank You!