



Agenda and General Information

IEEE 802.3
40 Gb/s and 100 Gb/s Fiber Optic
Task Force

Dan Dove

Dove Networking Solutions

York, UK – 4 - 6 September 2013





Agenda

- Welcome and Introductions
- **Appoint a Recording Secretary**
- Approve Agenda
- Approve Minutes of July Plenary Meeting
- Goals for this meeting
 - Big Ticket Items
- Reflector and Web
- Ground Rules
- IEEE
 - Structure, Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- Liaisons and Communications
- Review of Action Items from July Meeting
- Comment Resolution (Led by Pete Anslow, Chief Editor)
- Presentations
- Motions, Discussions and Closing Business
- 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

- Review Task Force Operation & Schedule
- Review ad hoc Activities & Reports
- Complete resolution of D1.1 comments and authorize production of D1.2 for pre-submittal to IEEE 802.3 WG Ballot
- Presentations of Material Relevant to comment resolution & project documentation
- Consider Motions & Discussions
 - Authorize generation of D1.2 and proceed to WG ballot
 - Resolve project documentation to align with work
 - Lay the ground work for the next meeting
- Wrap Up & Future Meeting Discussion



Reflector and Web

- To subscribe to the *Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet* reflector, send an email to: ListServ@ieee.org

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

**subscribe stds-802-3-100Goptx <yourfirstname> <yourlastname>
end**

- Send *Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet* reflector messages to:
STDS-802-3-100Goptx@LISTSERV.IEEE.ORG

- Task Force web page URL:

<http://www.ieee802.org/3/bm/index.html>



Task Force Private Area

- URL: <http://www.ieee802.org/3/bm/private/index.html>
 - Username: XXXXXXXX
 - Password: XXXXXXXX
- Write it down...
- Note - The draft, and any other content, is posted for your review only, and neither the content nor access information should be copied or redistributed to others in violation of document copyrights.



Ground Rules

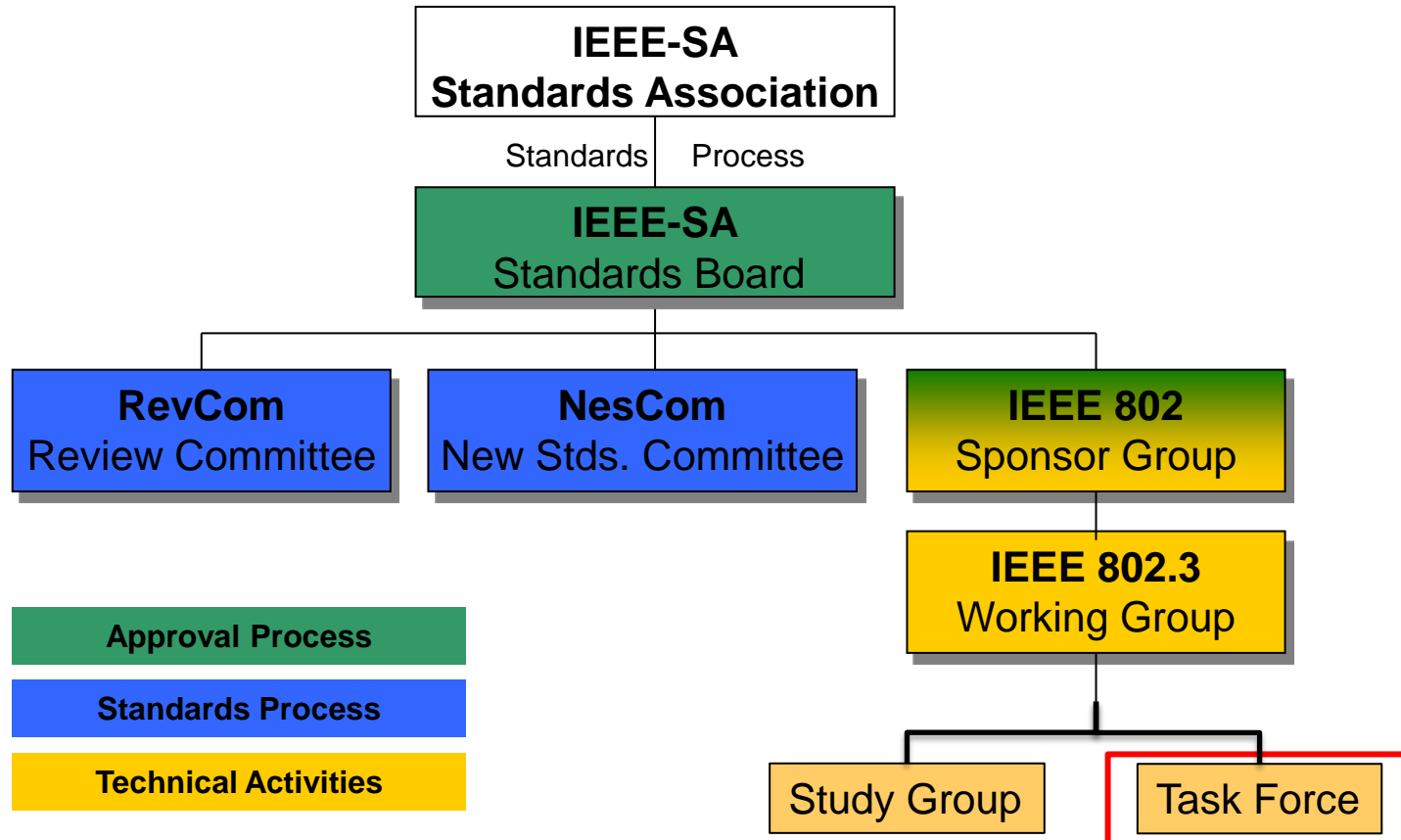
- Based upon IEEE 802.3 Rules
 - Foundation based upon Robert's Rules of Order
 - Anyone in the room may speak
 - Anyone in the room may vote
- **RESPECT**... give it, get it – Do unto others...
- NO product pitches (ex: “LightZippyDoo is the best!”)
- NO corporate pitches (ex: “We Illuminate Your Networks!”)
- NO prices!!!
 - This includes costs, ASPs, etc. no matter what the currency
- NO restrictive notices



Attendance

- Tutorial Material on attendance tool
 - http://ieee802.org/3/minutes/mar11/0311_imat.pdf
- URL (Valid for this meeting only)
 - URL: <https://imat.ieee.org/attendance>
 - Password = xxxxxxxx

IEEE Structure





Important Bylaws and Rules

- **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**
http://www.ieee802.org/PNP/2010-07/IEEE_802_LMSC_OM_approved_100716.pdf
- **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



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>



Participants, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.

- **Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:**
 - **“Shall inform the IEEE (or cause the IEEE to be informed)” of the identity of each “holder of any potential Essential Patent Claims of which they are personally aware” if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents**
 - **“Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims**
 - **“Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)**
- **The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group**
- **Early identification of holders of potential Essential Patent Claims is strongly encouraged**
- **No duty to perform a patent search**



Patent Related Links

All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards Bylaws

<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>

IEEE-SA Standards Board Operations Manual

<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>

Material about the patent policy is available at

<http://standards.ieee.org/about/sasb/patcom/materials.html>

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>

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

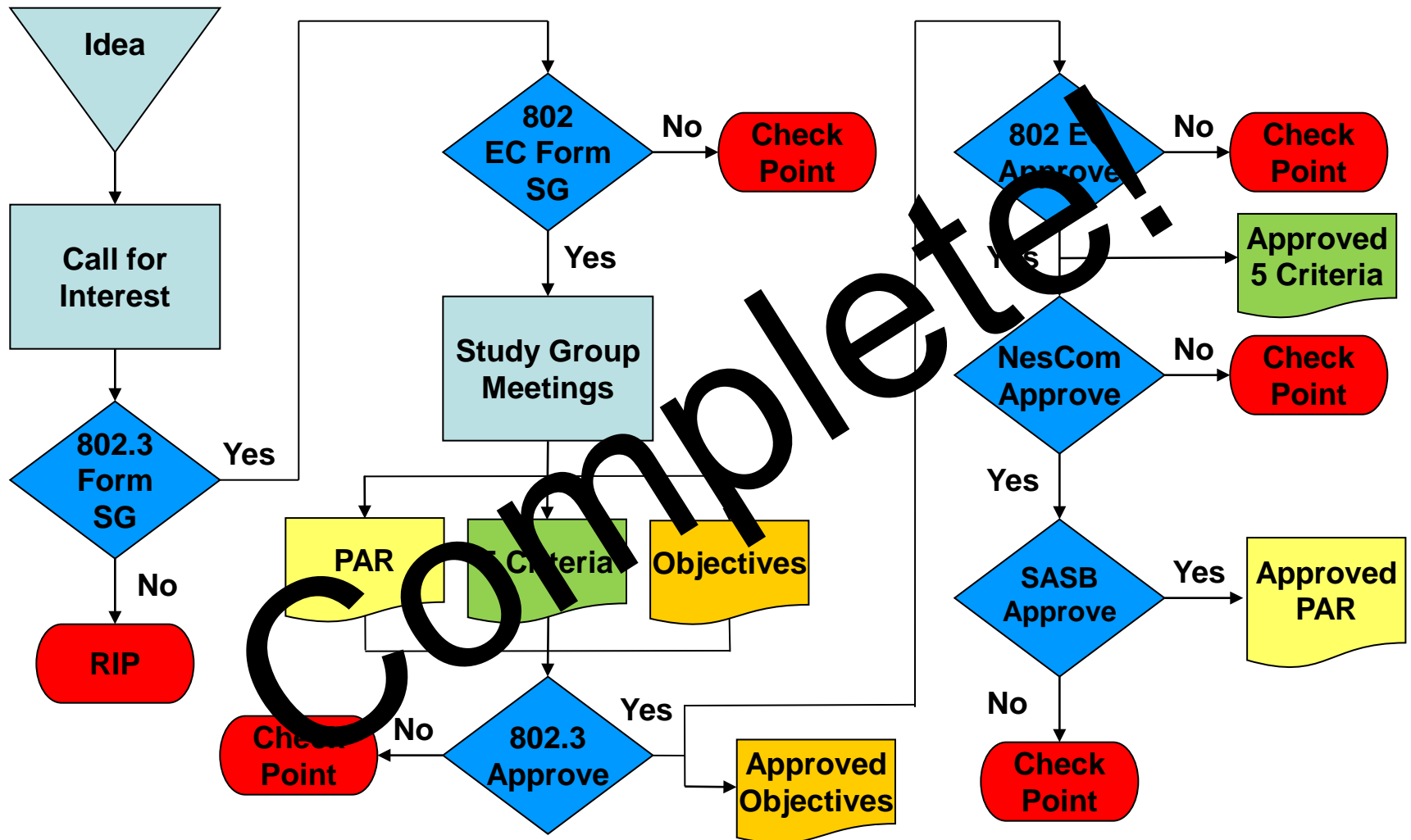


Call for Potentially Essential Patents

- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
 - Either speak up now or
 - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible or
 - Cause an LOA to be submitted

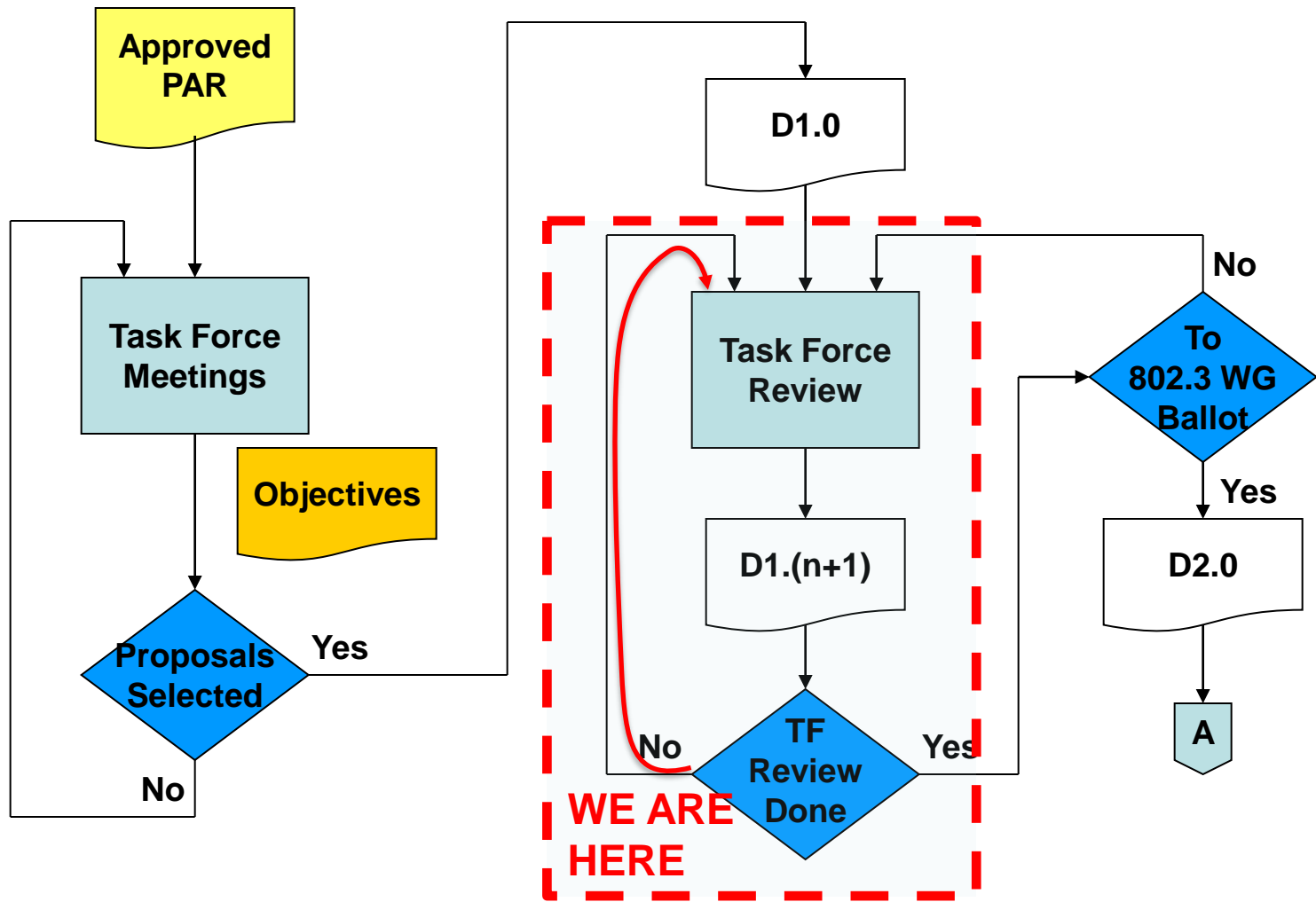
❖ **NOTE TO SECRETARY – Record this Call & Response to Call**

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

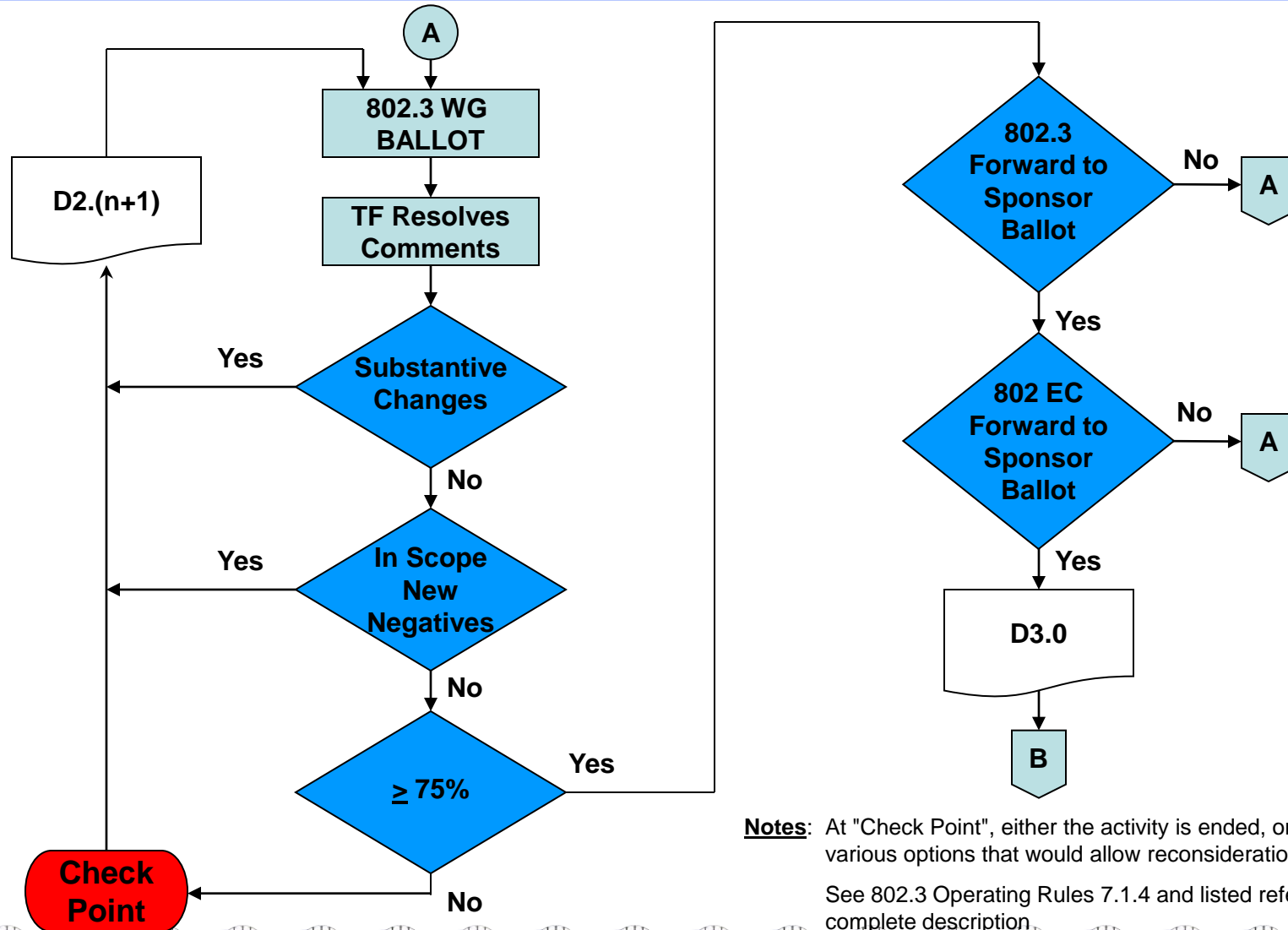


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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

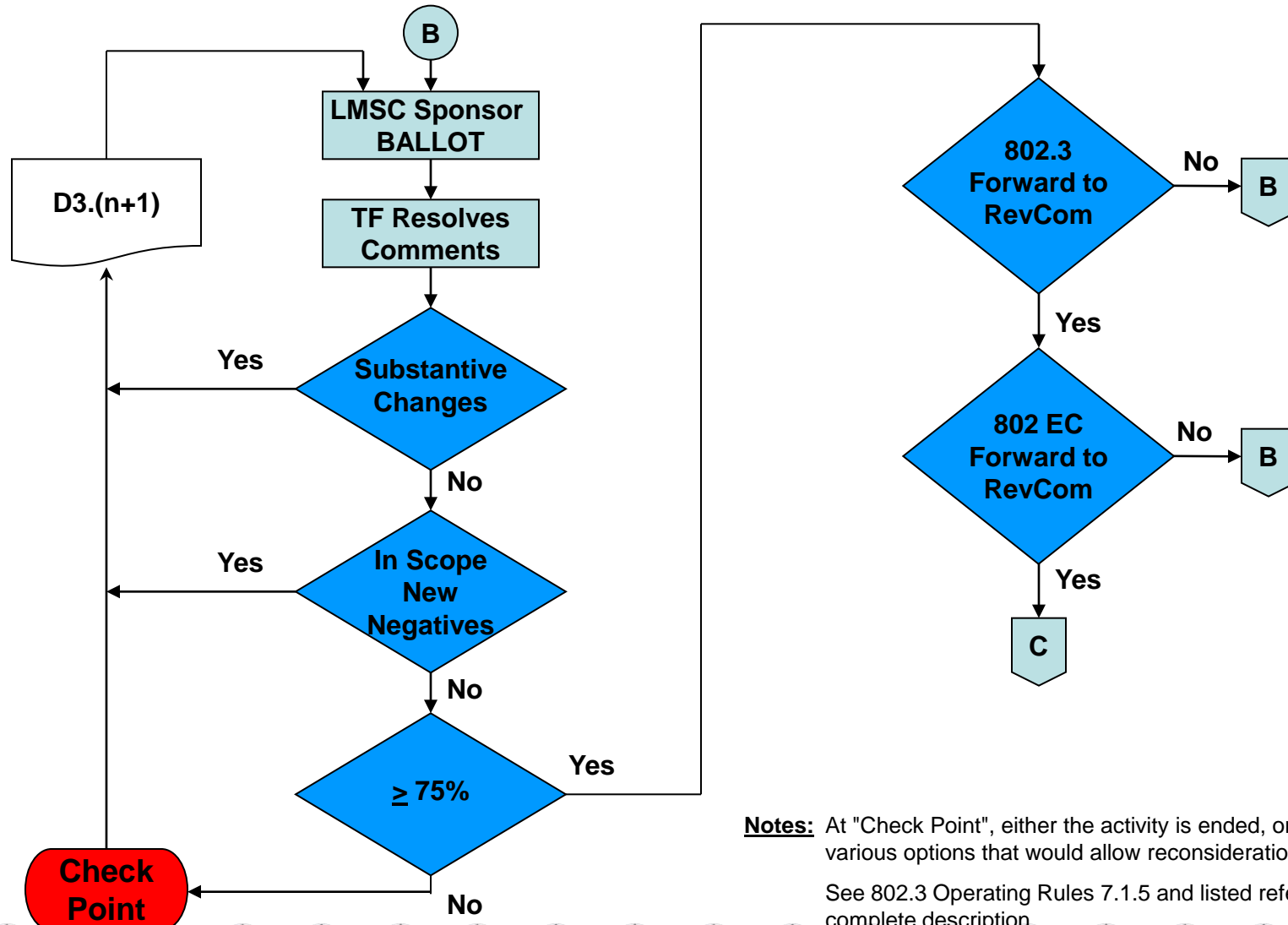


Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



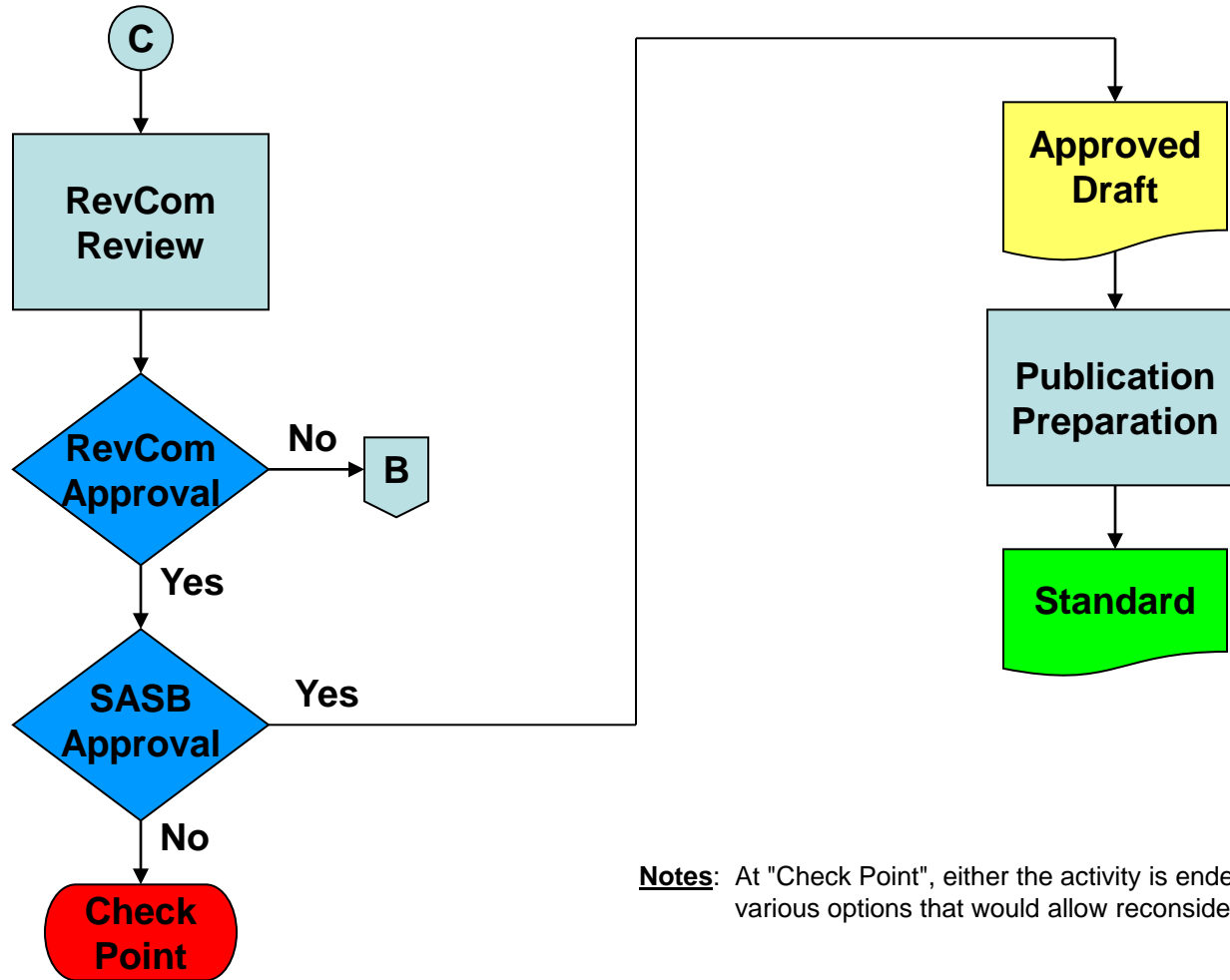
Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval. See 802.3 Operating Rules 7.1.4 and listed references for complete description.

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



Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval. See 802.3 Operating Rules 7.1.5 and listed references for complete description.

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



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



Liaisons and Communications

- **P802.3bj/P802.3bm Joint Session**
 - None at this meeting.
- **OIF**
 - Ongoing communications between OIF and IEEE 802.3 initiated by IEEE P802.3ba project
 - In regards to OIF CEI-25G-LR, CEI-28G-SR, CEI-28G-VSR
 - Currently being operated through 802.3 Working Group
 - OIF Liaison letter received July 13th including OIF-28G-VSR and OIF-28G-MR draft documents.
 - Response sent based upon July TF motion.
- **ITU-T**
 - Continued liaison activity to ensure alignment



Pending Action Items

- Draft 1.1 comment resolution
- Resolve 5C/Objectives documentation relative to project activities



IEEE P802.3bm Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Approved Project Documents

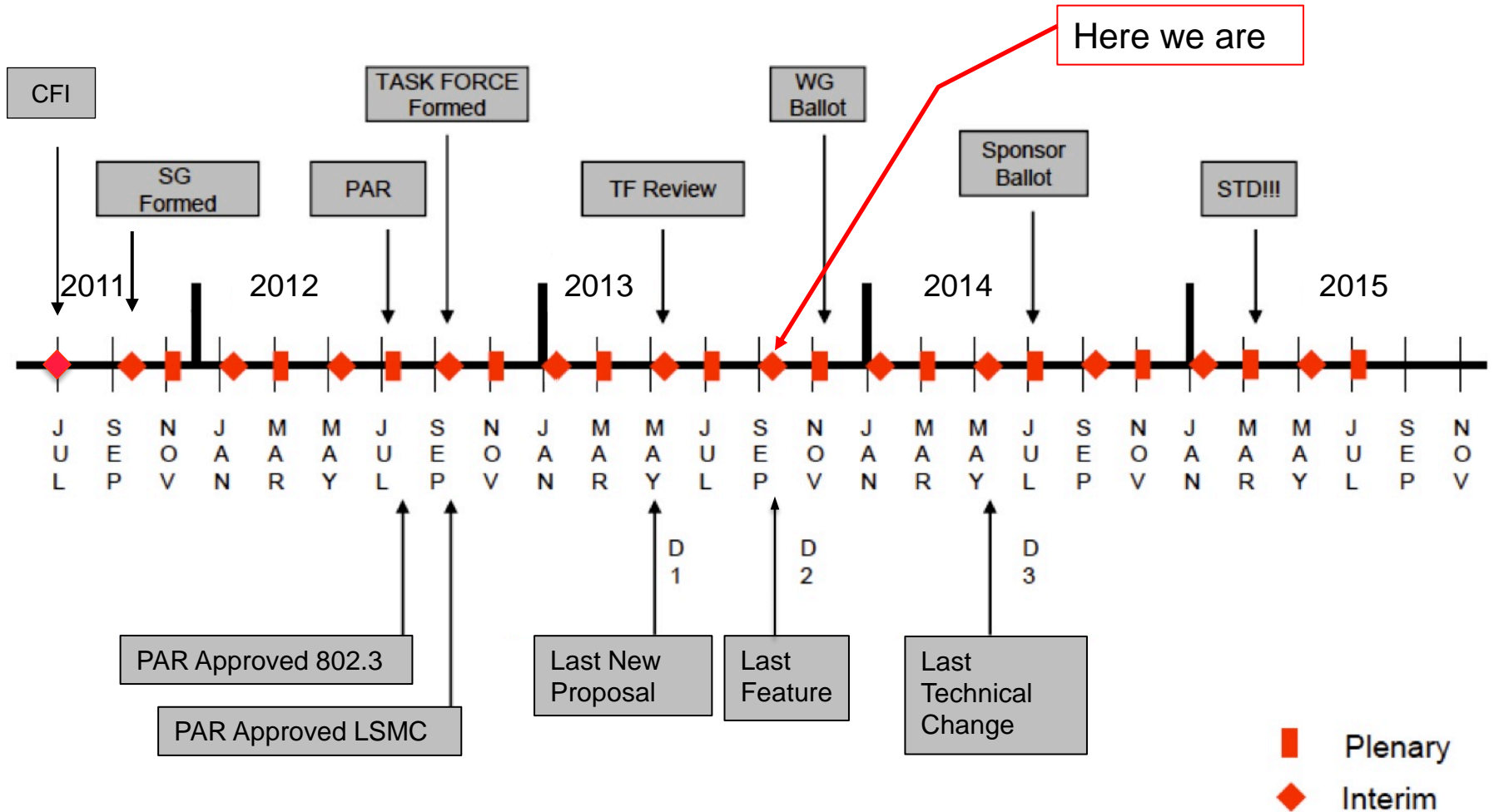
- **PAR** (as amended in Jan 2013)
 - http://www.ieee802.org/3/bm/P802_3bm_PAR_0113.pdf
- **5 Criteria**
 - http://www.ieee802.org/3/bm/P8023bm_5Criteria_1112.pdf
- **Objectives**
 - http://www.ieee802.org/3/bm/P8023bm_Objectives_1112.pdf
- **Timeline**
 - http://www.ieee802.org/3/bm/timeline_0912.pdf



IEEE P802.3bm Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Objectives

- ✧ Support full-duplex operation only
 - ✧ Preserve the IEEE 802.3 / Ethernet frame format utilizing the IEEE 802.3 MAC
 - ✧ Preserve minimum and maximum FrameSize of current IEEE 802.3 standard
 - ✧ Support a BER better than or equal to 10^{-12} at the MAC/PLS service interface
 - ✧ Provide appropriate support for OTN
 - ✧ Define re-timed 4-lane 100G PMA to PMA electrical interfaces for chip to chip and chip to module applications
 - ✧ Define a 40 Gb/s PHY for operation over at least 40 km of SMF
 - ✧ Define a 100 Gb/s PHY for operation up to at least 500 m of SMF
 - ✧ Define a 100 Gb/s PHY for operation up to at least 100 m of MMF
 - ✧ Define a 100 Gb/s PHY for operation up to at least 20 m of MMF
 - Specify optional Energy Efficient Ethernet (EEE) for 40 Gb/s and 100 Gb/s operation over fiber optic cables.
-
- ✧ (approved by 802.3 July 2011)
 - (approved by 802.3 November 2012)

IEEE P802.3bm Next Generation 40 Gb/s and 100 Gb/s Optical Ethernet Timeline (Adopted 28th, September 2012)





Wednesday Agenda

Wednesday 4 – Sept - 2013

Note –Times listed are subject to change.

Wednesday		Start Time	9:00	Discussion Time	10
Presentation Time	Duration	Presenter	Affiliation	Title	Filename
9:00	20	Dan Dove	Dove Networking Solutions	Agenda and General information	dove_01_0913_optx.pdf
9:20	5	Dan Dove	Dove Networking Solutions	Consensus Ad hoc Report	dove_02_0913_optx.pdf
9:25	10	Jonathan King	Finisar	MMF ad hoc report	king_01_0913_optx.pdf
9:35	15	Ryan Latchman	Mindspeed	CAUI4 ad hoc report	latchman_01_0913_optx.pdf
9:50	20	Pete Anslow	Ciena	Editor's opening report	anslow_01_0913_optx.pdf
10:10	15	BREAK			
10:25	105	Pete Anslow	Ciena	Comment Resolution	P802d3bm_D1p1_comments_rec_ID.pdf
12:10	60	LUNCH			
13:10	110	Pete Anslow	Ciena	Comment Resolution	P802d3bm_D1p1_comments_rec_ID.pdf
15:00	15	BREAK			
15:15	175	Pete Anslow	Ciena	Comment Resolution	P802d3bm_D1p1_comments_rec_ID.pdf
18:10	0	RECESS Till	9:00 AM		



Thursday Agenda

Thursday 5 – Sept - 2013

Note –Times listed are subject to change.

Thursday		Start Time	9:00 AM	Discussion Time	15
Presentation Time	Duration	Presenter	Affiliation	Title	Filename
9:00	10	Dan Dove	Dove Networking Solutions	Introduction & Agenda	dove_01_0913_optx.pdf
9:20	40	Pete Anslow	Ciena	Comment Resolution	P802d3bm_D1p1_comments_rec_ID.pdf
10:00	15	BREAK			
10:15	105	Pete Anslow	Ciena	Comment Resolution	P802d3bm_D1p1_comments_rec_ID.pdf
12:00	60	LUNCH			
13:00	110	Pete Anslow	Ciena	Comment Resolution	P802d3bm_D1p1_comments_rec_ID.pdf
14:50	15	BREAK			
15:05	175	Pete Anslow	Ciena	Comment Resolution	P802d3bm_D1p1_comments_rec_ID.pdf
18:00	0	RECESS Till	9:00 AM		

Friday Agenda

Friday 6 – Sept - 2013

Note –Times listed are subject to change.

Friday		Start Time	9:00 AM	Discussion Time	15
Presentation Time	Duration	Presenter	Affiliation	Title	Filename
9:00	15	Dan Dove	Dove Networking Solutions	Introduction & Agenda	dove_01_0713_optx.pdf
9:15	45	Pete Anslow	Ciena	Comment Resolution	P802d3bm_D1p1_comments_rec_ID.pdf
10:00	20	BREAK			
10:20	90	Pete Anslow	Ciena	Comment Resolution	P802d3bm_D1p1_comments_rec_ID.pdf
12:00	60	Lunch			
13:00	30	Dan Dove	Dove Networking Solutions	Resolving our Project Documentation	dove_03_0913_optx.pdf
13:40	70			Motions & Discussion	
15:00	15	BREAK			
15:15	105			Motions & Discussion	
17:00	30	Pete Anslow	Ciena	Editor's closing report	anslow_02_0913_optx.pdf
17:00	20	Dan Dove	Dove Networking Solutions	Wrap Up	
	20	John Petrilla	Avago Technologies	100GBASE-SR4 Extinction Ratio	petrilla_01_0913_optx.pdf
	20	Rich Mellitz	Intel	Proposal for CAUI-4 Package, Reference Receiver, and COM Parameters	mellitz_01_0913_optx.pdf
	20	Ali Ghiasi	Broadcom	CAUI-4 C2C Transmitter and Receiver Compliance	ghiasi_01_0913_optx.pdf
	20	Mike Li	Altera	A CAUI-4 Specification Method Supporting 15-20 dB Chip-to-Chip Channels	li_01_0913_optx.pdf
	20	Piers Dawe	Mellanox	Need for FEC-protected chip-to-module CAUI-4 specification	dawe_01_0913_optx.pdf
	20	Piers Dawe	Mellanox	Maps of OMA, TDP and mean power	dawe_02_0913_optx.pdf

*Note: Yellow cells indicate "To be scheduled by Chief Editor based on comment resolution"



Future Meetings

- See: <http://www.ieee802.org/3/interims/index.html>
- See: <http://802world.org/plenary/future-plenary-sessions/>
- **Week of Nov 11, 2013 (Plenary)**
 - Hyatt Regency Dallas
 - Dallas, TX
 - USA
- **Week of Jan 20, 2013 (Interim)**
 - IEEE P802.3 interim session
 - All IEEE 802.3 Task Force and Study Groups will meet
 - Hyatt Regency Indian Wells, CA, USA
 - Hosted by: XILINX
- **Week of March 16-21, 2014**
 - Beijing, China
- Anyone interested in hosting a meeting contact Steve Carlson.



Thank You!

