




IEEE P802.3ba 40Gb/s and 100Gb/s Ethernet

Opening Plenary Report

Orlando, FL
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IEEE P802.3ba Task Force Organization

- Task Force Chair:
 - John D'Ambrosia (jdambrosia@ieee.org)
- Web Master
 - Frank Chang (ychang@vitesse.com)

- “40GbE SMF PMD” Ad Hoc Chair
 - Alessandro Barbieri (abarbier@cisco.com)

- “Test Point” Ad Hoc Chair
 - Chris Di Minico (CDimi80749@aol.com)

Reflector and Web

- To subscribe to the IEEE P802.3ba Task Force reflector, send an email to:

ListServ@ieee.org

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

***subscribe stds-802-3-hssg <yourfirstname> <yourlastname>
end***

- Send IEEE P802.3ba Task Force reflector messages to:

STDS-802-3-HSSG@listserv.ieee.org

- Task Force web page URL:

http://www.ieee802.org/3/ba/

IEEE P802.3ba Private Area

- URL: <http://www.ieee802.org/3/ba/private/>
 - Username: 802.3ba
 - Password: xxxxxxxx
 - Password is case sensitive

- Write it down...

Task Force Approved Project Documents

- PAR

- http://ieee802.org/3/ba/PAR/par_0308.pdf

- 5 Criteria

- http://ieee802.org/3/ba/PAR/HSSG_5C_0707.pdf

- Objectives

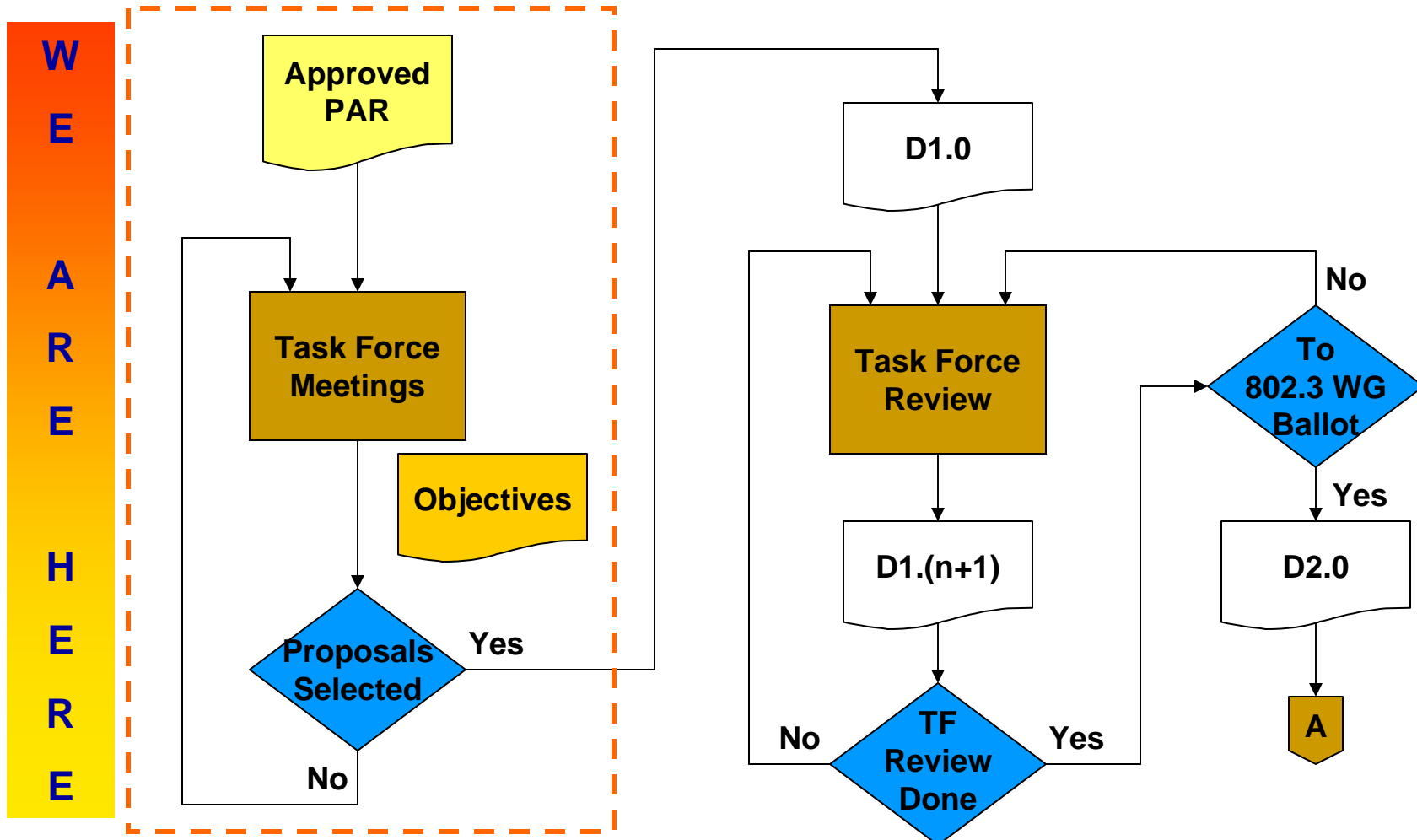
- http://ieee802.org/3/ba/PAR/P802.3ba_Objectives_0308.pdf

Task Force Objectives

- Support full-duplex operation only
- Preserve the 802.3 / Ethernet frame format utilizing the 802.3 MAC
- Preserve minimum and maximum FrameSize of current 802.3 standard
- Support a BER better than or equal to 10^{-12} at the MAC/PLS service interface
- Provide appropriate support for OTN
- Support a MAC data rate of 40 Gb/s
- Provide Physical Layer specifications which support 40 Gb/s operation over:
 - at least 100m on OM3 MMF
 - at least 10m over a copper cable assembly
 - at least 1m over a backplane
- Support a MAC data rate of 100 Gb/s
- Provide Physical Layer specifications which support 100 Gb/s operation over:
 - at least 40km on SMF
 - at least 10km on SMF
 - at least 100m on OM3 MMF
 - at least 10m over a copper cable assembly

Adopted by HSSG and approved by 802.3 at July 2007 Plenary

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



January Interim Meeting

- Portland, Oregon
 - January 23 - 25
 - Hosted by Intel – Thank You!
 - 137 Attendees
 - 32 Presentations
 - Project Organization
 - Progress towards generating D1.0
 - Liaison from ISO/IEC JTC 1/SC 25/WG 3 to IEEE 802.3 – Interest in OM4 fiber?
 - 40G SMF PMD for Data Center Inter-Switch Links
 - Suggestion that the TF should consider “Adopting a new objective for 40G SMF with minimum reach of 10km.”
 - 51 people indicated interest in working in Ad Hoc effort

Goals for this Week

- Frame Tutorial
 - Monday night, 6:30pm to 8pm, Caribbean III
- Hear 47 Presentations
 - Progress towards generating D1.0
 - Hear proposals
 - “Eye mask statistical significance and practicality”
 - http://ieee802.org/ba/public/mar08/dawe_01_0308.pdf
 - “Need to document what mask compliance means more completely”
- Review liaisons / communications
 - ISO/IEC JTC 1/SC 25/WG 3
 - OIF (Carrier WG)
- Resolve 40G SMF PMD Issue

Meeting Map

	Mon	Tues	Wed	Thur	Fri
8:00	SEC	All	Track 1		
8:30					
9:00				Track 2 - Cu Cabling	
9:30					
10:00					
10:30					
11:00	802.0 Plenary			Closing Business	
11:30					
12:00	Lunch	Lunch	Lunch	Lunch	
12:30					
13:00	802.3 Plenary	All	Track 1	802.3 Plenary	SEC
13:30					
14:00					
14:30					
15:00					
15:30					
16:00					
16:30					
17:00					
17:30					
18:00	Dinner	Break	Dinner		
18:30	Frame Tutorial	All	Social		
19:00					
19:30					
20:00					
20:30					
21:00					
21:30					



Thank You!

