Meeting Minutes

Group: IEEE P802.3cs Physical Layers for increased-reach Ethernet optical subscriber access (Super-PON) Task Force

Event: Plenary meeting

Date: 12 March, 2019

Location: Vancouver, BC - Canada

Opening

3/12/2018 9:15 AM The meeting was called to order by Claudio DeSanti, the Task Force chair. Duane Remein volunteered to serve as recording secretary.

Unless noted otherwise all files referenced in these minutes are located at the following URL: http://www.ieee802.org/3/cs/public/201903/.

The chair held introductions, proposed an agenda and began his opening report (see 20190312-Agenda.pdf) covering meeting decorum.

Motion # 1
Move to approve the agenda as shown in 20190312-Agenda.pdf.
Moved: Kevin Noll Second: Duane Remein
Procedural (>50%) Motion Passed by Voice without opposition

Motion # 2
Move to approve the minutes of the past meeting
http://www.ieee802.org/3/cs/public/201901/Draft_Minutes_P802d3cs_0119_Long_Beach.pdf
http://www.ieee802.org/3/cs/public/AdHoc/20190221-Minutes.pdf
Moved: Marek Hajduczenia Second: Duane
Procedural (>50%) Motion Passed by Voice without opposition

The Chair continued the opening report covering meeting goals, big ticket items, email reflector, Task Force Web site, meeting ground rules, IEEE structure, IEEE bylaws, IEEE rules, IEEE meeting guidelines, IEEE Participation guidelines, and IEEE 802.3 process.

3/12/2019 9:37: AM – The Chair made a call for patents, there was no response made.

Presentations

3/12/1919 9:43 AM the TF began hearing and discussing presentations.

All presentations are in the following format:
Presentation #
Title Presenter affiliation
Comments
Filename: FileRef

Presentation # 1
Specifying Super-PON Claudio DeSanti Google
This presentation suggested that the devices and components between the MDI of the OLT and ONU be considered a "Black Link". Several examples from complex (including amp, AWG, and splitters) to very simple (single wavelength not amp) were included. Description of the Black Link(s) would be informative only.
Filename: 20190312-Specifying_Super-PON.pdf

Presentation # 2
Super-PON Wavelength Considerations Liang Du Google
This presentation examined the wavelength plan with respect to Link Budget. The conclusion is that both US and DS will need to be in C/L band. It was further suggested that both US and DS be divided into 4 sub-bands to accommodate upgrade concerns.
Filename: 20190312-Super-PON_Wavelength_Considerations.pdf

10:20 AM break reconvened at 10:35 AM continued discussion on presentation #2.

Presentation # 3
Cyclic Athermal AWG λ Router for Super-PON Daisuke Ogawa NTT Electronics
This presentation reviewed silica based AWG with athermal performance suitable for the Super-PON project (i.e., 16 channels each in 4 sub-bands over 1530 to 1600 nm wavelength range with 100 GHz channel spacing).
Filename: 20190312-CAWG_Router_for_Super-PON.pdf

Presentation # 4
Cyclical AWG for Super-PON System Dr. Junming An Shijia Photons Technology
This presentation covered a similar topic as presentation #2 (cyclic AWG).
Filename: 20190312-CAWG_for_Super-PON.pdf

Presentation # 5
Super-PON Chromatic Dispersion Considerations
Liang Du Google
This presentation summarized simulated chromatic dispersion results for a Super-PON system. It was suggested that a dispersion compensation module be allowed for in the US direction between the preamp and the Demux. May be able to avoid a dispersion compensation module in the DS direction.
Filename: 20190312-Super-PON_Chromatic_Dispersion.pdf

Motions & Straw Polls

Motion # 3
Move to adopt the timeline shown in page 29 of 20190312-Agenda_v1.pdf
Moved: Marek Hajduczenia Second: Duane Remein
For: 12 Against: 0 Abstain: 0
Technical (≥ 75%) Motion Passed

Motion # 4
Move that the Super-PON specification will use the black link approach, as per 20190312-Specifying_Super-PON.pdf, whereby:
- The MDI specification is normative and accounts for the characteristics of the black link; and
- Any black link example(s) are described as informative annexes.
Moved: Liang Du Second: Patrick Lebeau
For: 12 Against: 0 Abstain: 0
Technical (≥ 75%) Motion Passed

Motion # 5
Move to adopt the wavelength plan show on page 7 of 20190312-CAWG_Router_for_Super-PON.pdf.
Moved: Marek Hajduczenia Second: Liang Du
For: 9 Against: 0 Abstain: 1
Technical (≥ 75%) Motion Passed

Closing

The Chair opened discussion on a possible ad hoc call in the April or May time frame (assuming material was available). There was no objections to this proposal.

Future meeting polls were taken.

Location (start date)	**Planned attendance**		
	Will	Will Not	May
Salt Lake UT (5/20/19)	10	1	1
Vienna Austria (7/15/19)	10	0	3
Indianapolis, IN (9/9/19)	5	1	4

Motion # 6
Move to adjourn.
Moved: Duane Remein Second: Mark Laubach
Procedural (>50%) Motion Passed by Voice without opposition

3/12/2019 12:43 PM

The meeting was adjourned.

Attendance

Full Name	Employeer	Affiliation(s)
Junming An	Shijia Photons	Shijia Photons
Claudio DeSanti	Google	Google
Liang Du	Google	Google
Frank Effenberger	Huawei	Huawei
David Fu	Shijia Photons	Shijia Photons
Marek Hajduczenia	Charter	Charter
Curtis Knittle	CableLabs	CableLabs
Glen Kramer	Broadcom Inc.	Broadcom Inc.
Mark Laubach	Broadcom Inc.	Broadcom Inc.
David Law	HPE	HPE
Patric LeBeau	TeraXion	TeraXion
Robert Lingle	OFS	OFS
Kevin Noll	Tibit Communication	Tibit Communication
Daisuke Ogawa	NTT Electronics	NTT Electronics
Bill Powell	Nokia	Nokia
Duane Remein	Huawei	Huawei
Alexander Umnov	Corning	Corning