

and it was suggested that the group agree on the definition of this term.
emmendorfer_3ca_01b_0116.pdf

100G EPON reference Models

E. Dai

Cox Communications

This presentation covered bonding architecture options in conjunction with Network configurations. Three bonding options were covered: PHY layer, RS layer, and MAC layer. Network configurations included 25G ONU on 4 separate wavelength pairs, 50G ONUs (2 wavelength pairs), 75G ONU (3 wavelength pairs), and 100 G ONUs (all 4 pairs).
dai_3ca_01_0116.pdf

NG-EPON: Considerations on architecture

Y. Guo

ZTE

This presentation covered bonding architecture options and suggested a multi-step approach. First step would be a single 25G lane and second step would be a multi-lane specification based on a 25G per lane.
guo_3ca_01a_0116.pdf

Frame latency issues in multi-lane EPON

G. Kramer

Broadcom

This presentation addressed potential latency issues in multi-lane systems discussed in the SG/TF and included simulation results (see kramer_3ca_3_0116.xlsx) showing where in the path each delay component occurred.
kramer_3ca_1a_0116.pdf

Options for placing the channel bonding sublayer

G. Kramer

Broadcom

This presentation examined where to perform bonding in the layer model and issues that need to be resolved for each option.
kramer_3ca_2b_0116.pdf

RS Layer work plan

D. Remein

Huawei

This presentation outlined items within the RS that may/will need to be addressed by the Standard.
remein_3ca_1_0116.pdf

Baseline proposals for NG-EPON PCS

M. Hajduczenia

Bright House Networks

This presentation outlined the 10G-EPON PCS layer.
hajduczenia_3ca_1_0116.pdf

PMD Work Areas

F. Effenberger

Huawei

This presentation outlined items within the PMD layer that may/will need to be addressed by the standard.
effenberger_3ca_01_0116.pdf

NG-EPON PMD analysis

Y. Guo

ZTE

This presentation examined possible modulation techniques that could be used and concluded that NRZ is preferred.
guo_3ca_02a_0116.pdf

5:17 PM – recessed.

21 Jan 2016

9:05 AM – reconvened.

It was agreed to amend the agenda to allow a late presentation from Jorge Salinger to be given.

Presentations (continued)

Towards building a low cost 25G "base PHY" for 100G EPON

E. Harstead

Alcatel-Lucent

This presentation explored the possibility of defining a wavelength plan that included one low cost "base" lane in O band and three DWDM bands for higher performing ONUs. FEC was also considered and the possibility of using a hard decision LDPC FEC was suggested.

harstead_3ca_1b_0116.pdf

O-band DWDM NRZ transmission of 100G-EPON

H. Lee

ETRI

This presentation addressed Coexistence Requirements, Wavelength Plan, Line code, ONU Tuning of 25G ONUs, and Spectrum needed. The presentation concluded that O band could be used for 4 channel tuned DWDM.

lee_3ca_01a_0116.pdf

Wavelength Plan Proposals

F. Effenberger

Huawei

This presentation examined possible wavelength plans. An architecture with one single lane 25G generation system and a separate 4x25G channel 100G system. The possibility of a 4 channel CWDM system was also discussed.

effenberger_3ca_02_0116.pdf

Manage Colors for 100G EPON

E. Dai

Cox Communications

This presentation described using four 25Gb streams on the same ODN using wavelength routed (selective) and wavelength selected (broadcast over power split ODN) architectures.

dai_3ca_02a_0116.pdf

Flexible Wavelengths

R. Tucker

Charter Communications

This presentation discussed wavelength plan and its impact on PMD architecture, especially tunability.

tucker_3ca_1_0116.pdf

Straw Poll #1

P802.3ca will not define a new 10Gbps EPON PHY.

Agree: 19 Disagree: 0 No Opinion: 1

Straw Poll #2

The standard will enable an implementation optimized for a single wavelength pair operating at 25Gbps symmetric and for 25G/10G asymmetric.

Agree: 19 Disagree: 0 No opinion: 1

Procedural > 50% Passed by voice without opposition

5:22 PM - The meeting was adjourned.

Attendees on 1/20:

NAME	AFFILIATION	EMAIL
Noll, Kevin	TWC	kevin.noll@twcable.com
Ed Harstead	Nokia	ed.harstead@nokia.com
MARCE HAYDUCENIA	PHN	MARCE.HAYDUCENIA@HYUNDAIIPROD.COM
Fernando Villanet	Cisco	villanf@cisco.com
Shawn Esser	FINISAR	shawn.esser@finisar.com
Phil MIGUELEZ	COMCAST	Phil_Miguel@comcast.com
Alan M. Brown	CommScope	Alan.Brown@comscope.com
Naek Suwak	Mitsubishi Electric	
Hanhyub Lee	ETRI	hanhyuk@etri.re.kr
Kyeong HWAN	ETRI	khdeo@etri.re.kr
Weyl Wang	Accelink	weyl.wang@accelink.com
MARK LABAETH	BROADCOM	
BZ SHEN	Broadcom	
Yong Guo	ZTE Corporation	
Tom KOLBE	BROADCOM	
Henam SABAOURY		
ALEXANDER UMNNOV	CORNING	
Michael Emmendorfer	ARRIS	michael.emmendorfer@arris.com
MICHAEL PETERS		mpeters@sunimotoelectronics.com
Ryan Tucker		ryan.tucker@charter.com
DUANE RABEIN	HUAWEI	
Glen Kramer	Broadcom	
Victor Hou	Broadcom	
Frank Esserberger	Huawei	
David Chen	Applied Optoelectronics, Inc.	
Huanlin ZHANG	Applied Optoelectronics, Inc.	
MOONSEO PARK	DE Solutions America, Inc.	
Richard Mci	CommScope	
JERGE SAUNGER	COMCAST	
Eugene Dai	COX	
Barry Colella	SOURCEPHO	

Attendees on 1/21:

