

Unapproved Minutes  
**IEEE 802.3 Next Gen ECDC Ad Hoc**  
Interim Meeting  
Mar 14-15, 2016  
Macau, China

Prepared by John D'Ambrosia

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## **Session #1 – Single Pair BASE-T – Extended Reach**

*Prepared by Ludwig Winkel*

Meeting minutes 2016-03-14, Macau, IEEE 802.3 Industry Connections NG-ECDC Ad Hoc, Session “Draft - CFI - Single Twisted Pair with a reach up to at least 1000m”.

Ludwig Winkel led this session starting at 19:00, Mar 14. He presented the slide deck with the general information, see

[http://www.ieee802.org/3/ad\\_hoc/ngrates/public/16\\_03/agenda\\_ecdc\\_01\\_0316.pdf](http://www.ieee802.org/3/ad_hoc/ngrates/public/16_03/agenda_ecdc_01_0316.pdf)

The group reviewed a draft of CFI slide deck. See

[http://www.ieee802.org/3/ad\\_hoc/ngrates/public/16\\_03/Single%201000m\\_CFI\\_rev6.pdf](http://www.ieee802.org/3/ad_hoc/ngrates/public/16_03/Single%201000m_CFI_rev6.pdf)

Based on feedback from participants at meeting, update was created and uploaded – see

[http://www.ieee802.org/3/ad\\_hoc/ngrates/public/16\\_03/Single%201000m\\_CFI\\_rev7.pdf](http://www.ieee802.org/3/ad_hoc/ngrates/public/16_03/Single%201000m_CFI_rev7.pdf)

An updated slide deck (V8) containing input from George Zimmerman will also be on the server -

[http://www.ieee802.org/3/ad\\_hoc/ngrates/public/16\\_03/Single%201000m\\_CFI\\_rev8.pdf](http://www.ieee802.org/3/ad_hoc/ngrates/public/16_03/Single%201000m_CFI_rev8.pdf).

There was a need for additional discussions. A room will be arranged for Tuesday night @7:30pm.

The meeting broke at 21:00.

Ludwig Winkel led this session starting at 19:30 Mar 15. He presented the slide deck with the general information, see

[http://www.ieee802.org/3/ad\\_hoc/ngrates/public/16\\_03/Single%201000m\\_CFI\\_rev8.pdf](http://www.ieee802.org/3/ad_hoc/ngrates/public/16_03/Single%201000m_CFI_rev8.pdf)

The V8 slide deck was reviewed and an update was created. ted another revision based on this with the constructive comments from the participants.

David, Bernd and Mick agreed to volunteer to improve Figures.

The resulting slide deck rev 9 will be on the server without the homework soon.

The meeting went into recess at 21:00.

## **Session #2 – 400 GbE Extended Reach Optical PMD**

*Prepared by John D'Ambrosia*

*Meeting started at 8pm Mar 14.*

*Two presentations were heard and discussed by the group-*

1. *400GE Requirement in MBB and FBB, by Lu Huang, China Mobile*  
[\(\[http://www.ieee802.org/3/ad\\\_hoc/ngrates/public/16\\\_03/huang\\\_ecdc\\\_01\\\_0316.pdf\]\(http://www.ieee802.org/3/ad\_hoc/ngrates/public/16\_03/huang\_ecdc\_01\_0316.pdf\)\)](http://www.ieee802.org/3/ad_hoc/ngrates/public/16_03/huang_ecdc_01_0316.pdf)
2. *FEC Options for Extended Reach of 40 / 200 / 400 GbE*  
[\(\[http://www.ieee802.org/3/ad\\\_hoc/ngrates/public/16\\\_03/wang\\\_ecdc\\\_01\\\_0316.pdf\]\(http://www.ieee802.org/3/ad\_hoc/ngrates/public/16\_03/wang\_ecdc\_01\_0316.pdf\)\)](http://www.ieee802.org/3/ad_hoc/ngrates/public/16_03/wang_ecdc_01_0316.pdf)

Post presentation discussion explored how an extended reach optical PMD could be achieved and the various tradeoffs that need consideration.

Meeting broke at 9pm.

## Attendees

IEEE 802.3 Next Gen ECDC Ad Hoc			3/14 Session 1	3/15 Session 1	3/14 Session2
Last Name	First Name	Employer / Affiliation	Mon	Tues	Mon
Abbott	Justin	Lumentum			x
Anslow	Peter	Ciena			x
Bazk	Jung Seod	LGE	x	x	
Boiger	Christian	B-Plus Gmbh	x	x	
Bouda	Martin	Fujitsu			x
Brandt	Dave	Rockwell Automatioin			x
Brillhart	Theo	Fluke			x
Carlson	Steve	HPE	x	x	
Chadha	Mandeep	Microsemi	x	x	
Chang	Ayla	Huawei			x
Chuang	Kong Hua	HPE			x
D'Ambrosia	John	Futurewei, subsidiary of Huawei			x
Donahue	Curtis	UNH-IOL	x	x	
Gong	Zhigang	O-Net			x
Gunthier	Claude	OmniPHY	x	x	
Isono	Hidaki	Fujitsu Optical Components			x
Jimenax	Andrew	Anixter	x	x	
Kehrer	Stepen	Hirschmann Automation Content	x	x	
Kim	Yong	Broadcom	x		
Kim	Jin Woo	LGE	x	x	
Lapak	Jeffrey	UNH-IOL	x	x	
Liu	Hai-Feng	Intel			x
Maki	Jeffrey	Juniper Networks			x
Masood	Shariff	CommScope			x
McCarthy	Mick	Analog Devices			x
McDermott	Tom	Fujitsu			x
McDonough	John	NEC			x

Moffitt	Bryan	CommScope			x
Perez de Aranda	Ruben	KDPOF			x
Sone	Yoshiaki	NTT			x
Srivastara	Atul	NTT Electronics			x
Stassar	Peter	Huawei			x
Tailor	Bharat	Semtech			x
Tamura	Kohichi	Oclaro			x
Trowbridge	Steve	Alcatel-Lucent			x
Vanderlaan	Paul	Berk-Tek			x
Wagner	Bob	Panduit			x
Wang	Tongtong	Huawei			x
Wang	Xinyuan	Huawei			x
Wang	Roy	HPE			x
Xu	Dayin	Rockwell Automatioin	x		
Zhong	Qiwen	Huawei			x