

# Electrical Interface Ad-hoc Report

Joel Goergen – Cisco Systems / Vasu Parthasarathy – Broadcom  
Version r1  
IEEE802.3bs 400GE  
November 2014 San Antonio, TX

# Opening

The stated charter is: Work on technical proposals related to the 400GbE Electrical Interfaces.

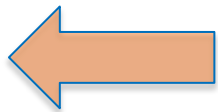
All related work and presentations can be found here:

<http://www.ieee802.org/3/bs/public/adhoc/elect/index.shtml>

# Where is IEEE802.3bs 400GE in the Modulation Wars?

The following simplified process steps are used to build consensus:

- Defining / Discussing Reach
- System Architecture
- **Channel Loss**
- **Modulation**
- Equalization
- Error Correction
- Power



**We Are About Here**

# Agenda 8SEPT2014

<b>Time</b>	<b>Presenter</b>	<b>Affiliation</b>	<b>Title</b>	<b>File Name</b>
7:30 PM	Joel / Vasu		Agenda and General Information	goergen_3bs_elec_adhoc_01_0914.pdf
7:40 PM	John D'Ambrisia	Dell	Architecture and Electrical Interfaces	dambrosia_01_0914_elec.pdf
8:00 PM	Mike Li	Altera	Specification Considerations for CDAUI-16	??
8:20 PM	Joel Goergen	Cisco	Filling in a chart	goergen_3bs_elec_adhoc_02_0914.pdf
8:40 PM	Discussion of the OIF Response			

# Activity 9 OCT 2014

ADHOC Agenda

Joel Goergen – Cisco / Vasu Parthasarathy – Broadcom goergen\_01\_1014\_elect

Medium Reach C2C Channel

Nathan Tracy – TE / Megha Shanbhag – Teshanbhag\_02\_1014\_elect

VSR C2M Channels

Nathan Tracy – TE / Megha Shanbhag – Teshanbhag\_01\_1014\_elect

Pondering 50Gb/s Channel Design

Richard Mellitz – Intel

mellitz\_01\_1014\_elect

Thoughts on 50G C2M Channels

David Brown – Semtech

brown\_01\_1014\_elect

Channels for 50G

Andrew Zambell – FCI

Zambell\_01\_1014\_elect

# Agenda 23 OCT 2014

ADHOC Agenda

Joel Goergen – Cisco / Vasu Parthasarathy – Broadcom goergen\_01\_1014\_elect

NRZ vs PAM4 Re-Timer Power

David Brown - Semtech

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EA Electrical Interface Update

Joel Goergen – Cisco

goergen\_01\_1014\_elect

## Next Steps to Nov 2014 IEEE Meeting

- Use the C2C and C2M channels submitted to the P802.3bs and provide a modulation scheme.
- Reach consensus on which channel groupings (LR/MR-C2C/VSR-C2M/XSR/USR) make sense from power/performance tradeoffs based on simulations