

IEEE 802.3 Working Group Interim meeting 17th September 2015

David Law
Chair, IEEE 802.3 Working Group
dlaw@hp.com

Agenda, voter list:
<http://www.ieee802.org/3/minutes/sep15/index.html>

IEEE 802.3 Officers

IEEE 802.3 Chair: David Law <dlaw@hp.com>

IEEE 802.3 Vice Chair: Adam Healey <adam.healey@avagotech.com>

IEEE 802.3 Secretary: Pete Anslow <panslow@ciena.com>

IEEE 802.3 Executive Secretary: Steve Carlson <scarlson@ieee.org>

IEEE 802.3 Treasurer: Valerie Maguire <valerie_maguire@siemon.com>

IEEE 802.3 Task Force chairs

IEEE P802.3bn EPON Protocol over Coax (EPoC): Mark Laubach <laubach@broadcom.com>

IEEE P802.3bp 1000BASE-T1: Steve Carlson <scarlson@hspdesign.com>

IEEE P802.3bq 25G/40GBASE-T: Dave Chalupsky <david.chalupsky@intel.com>

IEEE P802.3br Interspersing Express Traffic: Ludwig Winkel <ludwig.winkel@siemens.com>

IEEE P802.3bs 400 Gb/s Ethernet: John D'Ambrosia <john_dambrosia@dell.com>

IEEE P802.3bt DTE Power via MDI over 4-Pair: Chad Jones <cmjones@cisco.com>

IEEE P802.3bu 1-Pair Power over Data Lines (PoDL): Dave Dwelley <ddwelley@linear.com>

IEEE P802.3bv Gigabit Ethernet Over Plastic Optical Fiber: Bob Grow <bob.grow@ieee.org>

IEEE P802.3by 25 Gb/s Ethernet: Mark Nowell <mnowell@cisco.com>

IEEE P802.3bz 2.5G/5GBASE-T: Dave Chalupsky <david.chalupsky@intel.com>

IEEE 802.3 Study Group chairs

IEEE 802.3 Next Generation Ethernet Passive Optical Network: Curtis Knittle <c.knittle@cablelabs.com>

IEEE 802.3 2.5 Gb/s and 5 Gb/s Backplane and Short Reach Copper: Yong Kim <ybkim@broadcom.com>

WG Decorum



- Photography or recording by permission only (December 2014 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (December 2014 IEEE-SA Standards Board Ops Manual 5.3.3.3)
- Cell phone ringers off
- Wear your badges at all times in meeting areas
 - Help the hotel security staff improve the general security of the meeting rooms
 - **PCs HAVE BEEN STOLEN** at previous meetings
 - **DO NOT** assume that meeting areas are secure
- Please observe proper decorum in meetings

Agenda

- Approve agenda
 - <http://www.ieee802.org/3/minutes/sep15/>
 - Any modifications, additions or deletions?

Instructions for the WG Chair

The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:

- Show slides #1 through #4 of this presentation
- Advise the WG attendees that:
 - The IEEE's patent policy is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
 - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
 - There may be Essential Patent Claims of which the IEEE is not aware. Additionally, neither the IEEE, the WG, nor the WG chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- Instruct the WG Secretary to record in the minutes of the relevant WG meeting:
 - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
 - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
 - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG chair review the guidance in *IEEE-SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.



Participants, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.

- **Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:**
 - **“Shall inform the IEEE (or cause the IEEE to be informed)” of the identity of each “holder of any potential Essential Patent Claims of which they are personally aware” if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents**
 - **“Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)**
- **The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group**
- **Early identification of holders of potential Essential Patent Claims is strongly encouraged**
- **No duty to perform a patent search**

Patent Related Links

All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards Bylaws

<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>

IEEE-SA Standards Board Operations Manual

<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>

Material about the patent policy is available at

<http://standards.ieee.org/about/sasb/patcom/materials.html>

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

This slide set is available at
<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>

Call for Potentially Essential Patents

- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
 - Either speak up now or
 - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible or
 - Cause an LOA to be submitted

Other Guidelines for IEEE WG Meetings

- **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**
 - **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**
 - **Don't discuss specific license rates, terms, or conditions.**
 - Relative costs, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
 - Technical considerations remain primary focus
 - **Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.**
 - **Don't discuss the status or substance of ongoing or threatened litigation.**
 - **Don't be silent if inappropriate topics are discussed ... do formally object.**

See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy” for more details.

Important Bylaws and Rules

- IEEE-SA Operations Manual
 - http://standards.ieee.org/develop/policies/sa_opman/
- IEEE-SA Standards Board Bylaws
 - <http://standards.ieee.org/develop/policies/bylaws/>
- IEEE-SA Standards Board Operations Manual
 - <http://standards.ieee.org/develop/policies/opman/>
- IEEE 802 LAN/MAN Standards Committee (LMSC) Policies and Procedures
 - <http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf>
- IEEE 802 LAN/MAN Standards Committee (LMSC) Operations Manual
 - <http://www.ieee802.org/devdocs.shtml>
- IEEE 802 LAN/MAN Standards Committee (LMSC) Working Group (WG) Policies and Procedures
 - <http://www.ieee802.org/devdocs.shtml>
- IEEE 802.3 Working Group Operating Rules
 - http://ieee802.org/3/rules/P802_3_rules.pdf

Membership and attendance recording

Membership requirements

- Membership requirements (gaining and retaining)
 - 75% attendance at 2 of last 4 plenary sessions
 - A qualifying interim may be substituted for one plenary
 - Request to become member during potential voter agenda item at IEEE 802.3 opening or closing plenary
 - Participate in **two** out of the last **three** IEEE 802.3 Working Group ballots to retaining membership
 - Maintain valid contact information
 - Consistent declaration of affiliation

Membership and attendance recording

- IEEE 802.3 voters

http://www.ieee802.org/3/minutes/nov15/1115_voters.pdf

- Attendance recording

[Manage Attendee](#)

	MON 14-Sep-2015	TUE 15-Sep-2015	WED 16-Sep-2015	THU 17-Sep-2015	FRI 18-Sep-2015
Schedule					
P802.3bn, bp, br, bt, by, 2.5/5G					
WG meeting					

Please record your attendance for an active Meeting (denoted by yellow bar) by clicking on the yellow bar. Once your attendance has been recorded, the yellow bar changes to a green bar.

Submittal: As the person submitting this form, I certify that:

1. I am submitting this attendance record for myself and not someone else. DO NOT SUBMIT FOR OTHERS!
2. At the time of the submittal, I am currently in the Session above.

- IEEE 802.3 balloting records

http://ieee802.org/3/ballots/ballot_returns.pdf

Liaisons

Liaisons

- External Liaison letters (new)
 - ISO/IEC JTC1 SC25: Cable heating
 - ISO/IEC JTC1 SC25: Cabling to Support 2.5/5GBASE-T
 - ISO/IEC JTC1 SC25: ISO/IEC 11801 series Class I/II Cabling Return Loss
 - ISO/IEC JTC1 SC25: Withdrawal of POF References in ISO/IEC 11801 series
 - ISO/IEC JTC1 SC25: Cabling to Support 25GBASE-T
 - ITU-T SG9: New work item for J.C-DOCSIS
 - OIF: Flex Ethernet Implementation Agreement
 - SFF: SFF-8601 Protocol Negotiation for Ethernet Drives
- External Liaison letters (old)
 - ITU-T SG15 Multi-lane timestamping
 - IEEE 1588: Liaison Statement from ITU-T SG15 entitled “LS on Timestamping Point for Multilane Ethernet Interfaces,”

ITU-T SG9: New work item for J.C-DOCSIS

ITU-T SG9: New work item for J.C-DOCSIS

Motion

Move that IEEE 802.3 approve IEEE_802d3_to_ITU-T_SG9_0915_draft.pdf with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to ITU-T SG9.

M: ?? S: ??

Y: ??, N: ??, A: ??

OIF: Flex Ethernet Implementation Agreement

OIF: Flex Ethernet Implementation Agreement

Motion

Move to approve IEEE_802d3_to_OIF_0915_draft.pdf with editorial license granted to the chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to OIF.

M: ?? S: ??

Y: ??, N: ??, A: ??

SFF: SFF-8601 Protocol Negotiation for Ethernet Drives

SFF: SFF-8601 Protocol Negotiation for Ethernet Drives

Motion

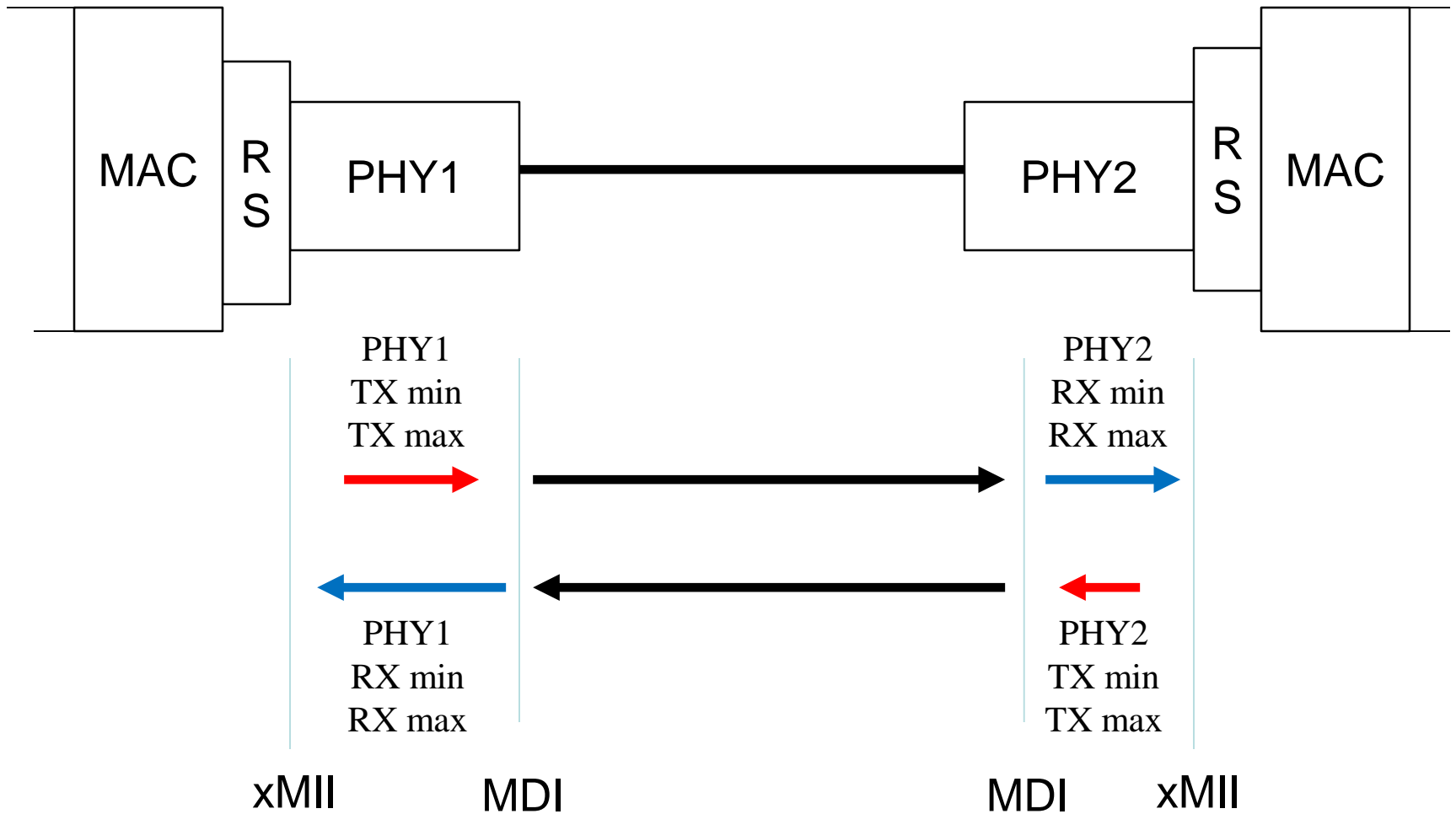
Move that IEEE 802.3 approve IEEE_802d3_to_SFF-8601_0915_draft.pdf with editorial license granted to the chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to SFF-8601.

M: Kim on behalf of Study Group

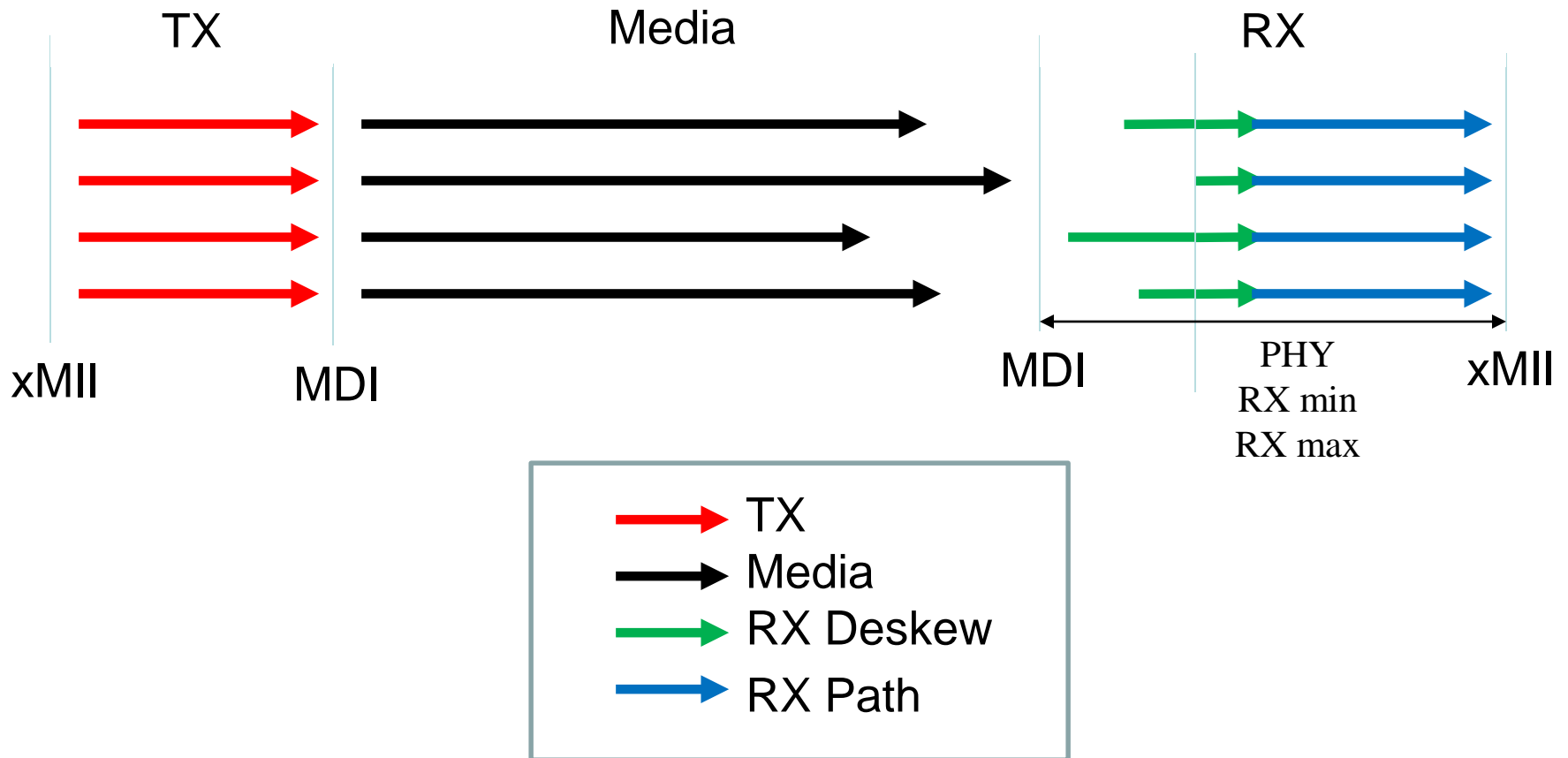
Y: ??, N: ??, A: ??

External Liaison letters (old) Multi-lane timestamping

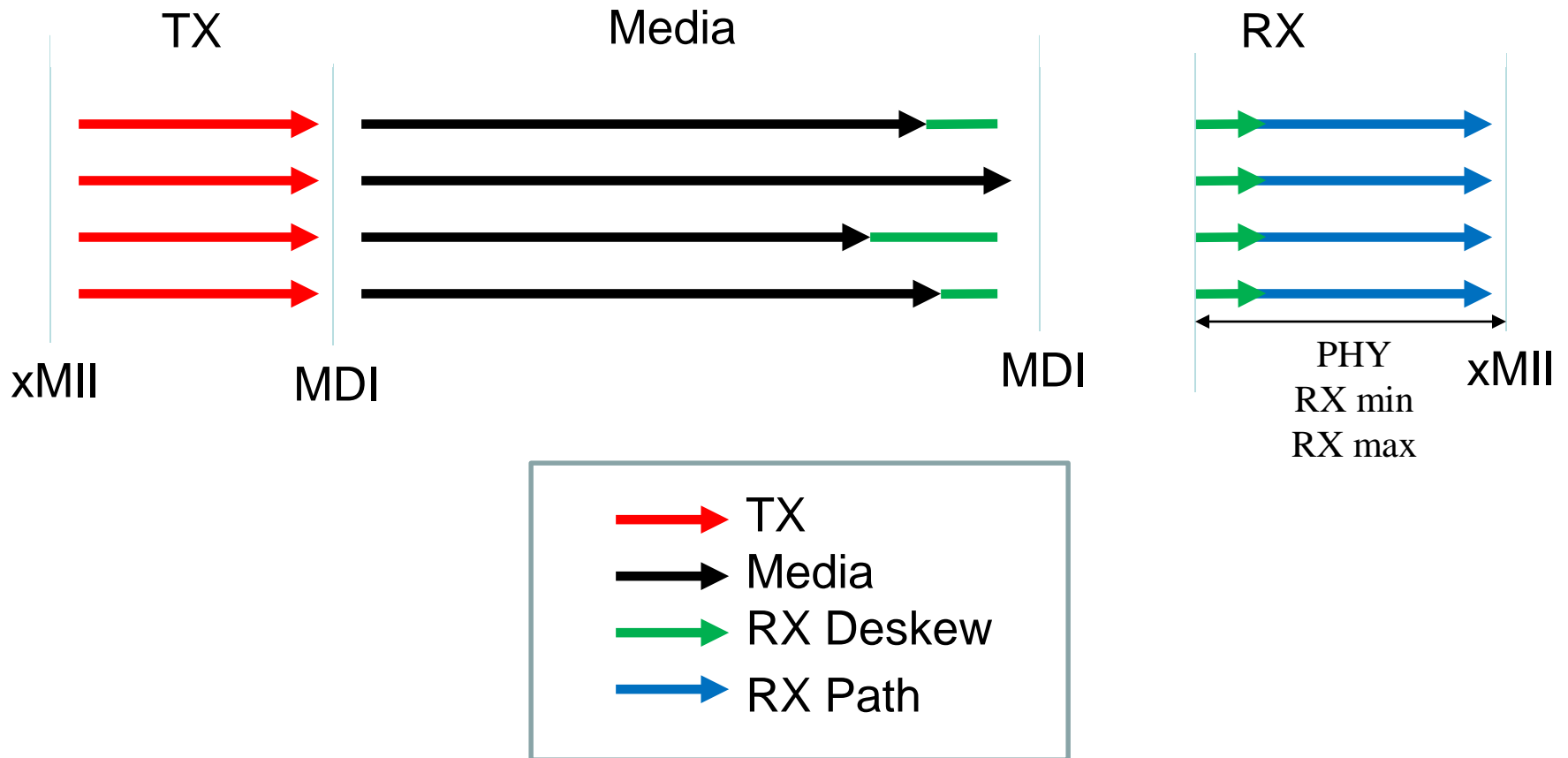
Data delay diagram



Multi-lane data delay diagram



Multi-lane data delay diagram



Multi-lane timestamping

Motion

Move that IEEE 802.3 approve IEEE_802d3_to_SG15_0915_draft.pdf with editorial license granted to the Chair (or his appointed agent) as a liaison communication from the IEEE 802.3 Working Group to ITU-T SG15.

M: ?? S: ??

Y: ??, N: ??, A: ??

2017 National Electrical Code (NEC) revision Cycle

2017 NEC revision Cycle

- IEEE 802.3 comments on 2017 NEC revision Cycle
 - http://www.ieee802.org/3/minutes/sep15/0915_IEEE_802d3_comment_to_FR_4643_draft.pdf
- IEEE 802.3 DRAFT comment to NFPA 70 on FR4643
 - http://ieee802.org/3/minutes/sep15/0915_NFPA_comment_report.pdf
- Endorsement of IEEE 802.3 candidates for IEEE SCC 18

IEEE Standards Coordinating Committee (SCC18)

IEEE Standards Coordinating Committee (SCC18)

A Call for Participation

[IEEE SCC18](#), a Standards Coordinating Committee (SCC) of the IEEE Standards Association (IEEE-SA) Standards Board is seeking new members.

Scope of IEEE SCC18

The scope of IEEE SCC18 is to review and coordinate the instructions of IEEE Technical Committees (TCs) to establish the IEEE position of IEEE representatives to National Fire Protection Association (NFPA) Standards Committees and Code Making Panels (CMPs).

IEEE SCC18 is a Type 1 IEEE-SA SCC, and as such, it does not develop standards. It provides IEEE representation to the NFPA codes and the standards making process, develops IEEE positions, and casts IEEE directed votes on NFPA proposals to the following NFPA CMPs and TCs:

- NFPA 70, National Electrical Code®
- NFPA 70A, National Electrical Code® Requirements for One- and Two-Family Dwellings
- NFPA 70B, Recommended Practice for Electrical Equipment Maintenance
- NFPA 70E, Standard for Electrical Safety in the Workplace®
- NFPA 73, Standard for Electrical Inspections for Existing Dwellings
- NFPA 79, Electrical Standard for Industrial Machinery

However, current NFPA requirements for the classification of IEEE representation is "User," which is defined by NFPA as "A representative of an entity that is subject to the provisions of the standard or that voluntarily uses the standard." IEEE may only submit "users" as determined by NFPA to be IEEE representatives to NFPA CMPs and TCs, as NFPA evaluates all nominees based on their employer (funding source). (Consulting engineers may be classified as users.)

Membership

IEEE and IEEE-SA membership are requirements for IEEE SCC18 membership. Prospective members must be sponsored by an IEEE society, department or committee in which they are actively involved. All members are required to participate in SCC18 meetings (a total of 2 meetings in a 3-year NEC revision cycle), letter ballots, and may occasionally be asked to participate in Task Groups. Ad Hoc Task Groups to review changes to other NFPA documents are formed from the membership and typically meet via conference call. ERs must attend all meetings of the NFPA technical committee they are a member of.

[Click here](#) to view all recent vacant ER positions.

If you are interested in IEEE SCC18 membership, and subsequently serving as an IEEE External Representative to an NFPA CMP or TC, please contact [Ed Larsen, IEEE-SA SCC18 Chair](#), and he will provide you with a membership "package" via email.

For additional information, please visit the [SCC18 public website](#).

If you have any questions, feel free to contact: [Patricia Roder, IEEE-SA Staff Liaison, Standards Development](#).

Nominees

- Responses to IEEE SCC18 request email
 - Joel Goergen
 - Bill Szeto

Other business (late breaking news)

Other business (late breaking news)

- New PAR form item 7.5

**7.5 INDICATE IF YOU WOULD LIKE
IEEE-SA STAFF TO SUBMIT YOUR
PROJECT TO THE AMERICAN
NATIONAL STANDARDS INSTITUTE
(ANSI) FOR APPROVAL
CONSIDERATION AS AN
AMERICAN NATIONAL STANDARD:**

Yes No