



# IEEE P802.3av Task Force May 2008 Interim Meeting

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## Agenda and General Information

May 13-15, 2008

Munich, Germany

Glen Kramer, [glen.kramer@ieee.org](mailto:glen.kramer@ieee.org)

- ❑ Welcome and introductions
- ❑ Recording secretary
- ❑ IEEE SA
  - Bylaws and rules
  - Changes to IEEE-SA Operations Manual
  - Patent policy, call for patents
  - Standardization process
- ❑ Task Force
  - Ground rules
  - Reflector and website
  - Private directory
  - TF officers
  - Approval of last meeting's minutes
  - Project timeline
  - Agenda for this meeting
  - Future meetings
- ❑ Announcements



- ❑ IEEE-SA Operations Manual:
  - <http://standards.ieee.org/sa/sa-om.pdf>
- ❑ IEEE-SA Standards Board Bylaws:
  - <http://standards.ieee.org/guides/bylaws/sb-bylaws.pdf>
- ❑ IEEE-SA Standards Board Operations Manual:
  - <http://standards.ieee.org/guides/opman/sb-om.pdf>
- ❑ LAN/MAN Standards Committee (LMSC) Policies & Procedures:
  - <http://standards.ieee.org/board/aud/LMSC.pdf>
- ❑ IEEE 802.3 Working Group Operating Rules:
  - [http://ieee802.org/3/rules/P802\\_3\\_rules.pdf](http://ieee802.org/3/rules/P802_3_rules.pdf)

## 5.3.3.1 Disclosure of affiliation

Each participant's affiliation shall be disclosed at any working group or project meeting. The chair or the chair's delegate shall inform the meeting of the requirement for disclosure of affiliation (see 5.2.1.5 of the IEEE-SA Standards Board Bylaws). This shall be via a sign-in (e.g., sign-in sheet, electronic sign-in, verbal disclosure, or electronic communication) that provides for disclosure of employer and any other affiliation, a reminder of the definition of affiliation, and possible penalties for non-compliance.

<...>

The minutes of each working group or project meeting shall record a list of attendees and the disclosed affiliation of each attendee.

## 5.3.3.2 False or misleading disclosure

A meeting attendee who fails to disclose affiliation shall not accrue any membership rights, including rights of or towards voting membership, until such disclosures have been made. The chair shall review the adequacy of disclosures. Failure to disclose affiliation, or materially false or misleading disclosure of affiliation, shall result in loss of membership privileges and may also result in loss of other participation privileges within the IEEE-SA for such participants and any affiliated entities.

The Sponsor of the project shall, when appropriate, review the adequacy of disclosures and, if deemed inadequate, may direct corrective action(s). In the absence of effective corrective action(s) by the Sponsor, the IEEE-SA Standards Board may impose further corrective action(s).

# 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 consistent with the ANSI patent policy and 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 12 and 12a 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.



25 March 2008

(Optional to be shown)

# Participants, Patents, and Duty to Inform

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

- “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
  - “Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims
- “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such 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

Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2

- 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/guides/bylaws/sect6-7.html#6>

IEEE-SA Standards Board Operations Manual

<http://standards.ieee.org/guides/opman/sect6.htm>

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at [patcom@ieee.org](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/board/pat/index.html>

This slide set is available at <http://standards.ieee.org/board/pat/pat-slideset.ppt>  
Material about the patent policy is available at

~~<http://standards.ieee.org/board/pat/pat-material.html>~~





# Call for Potentially Essential Patents

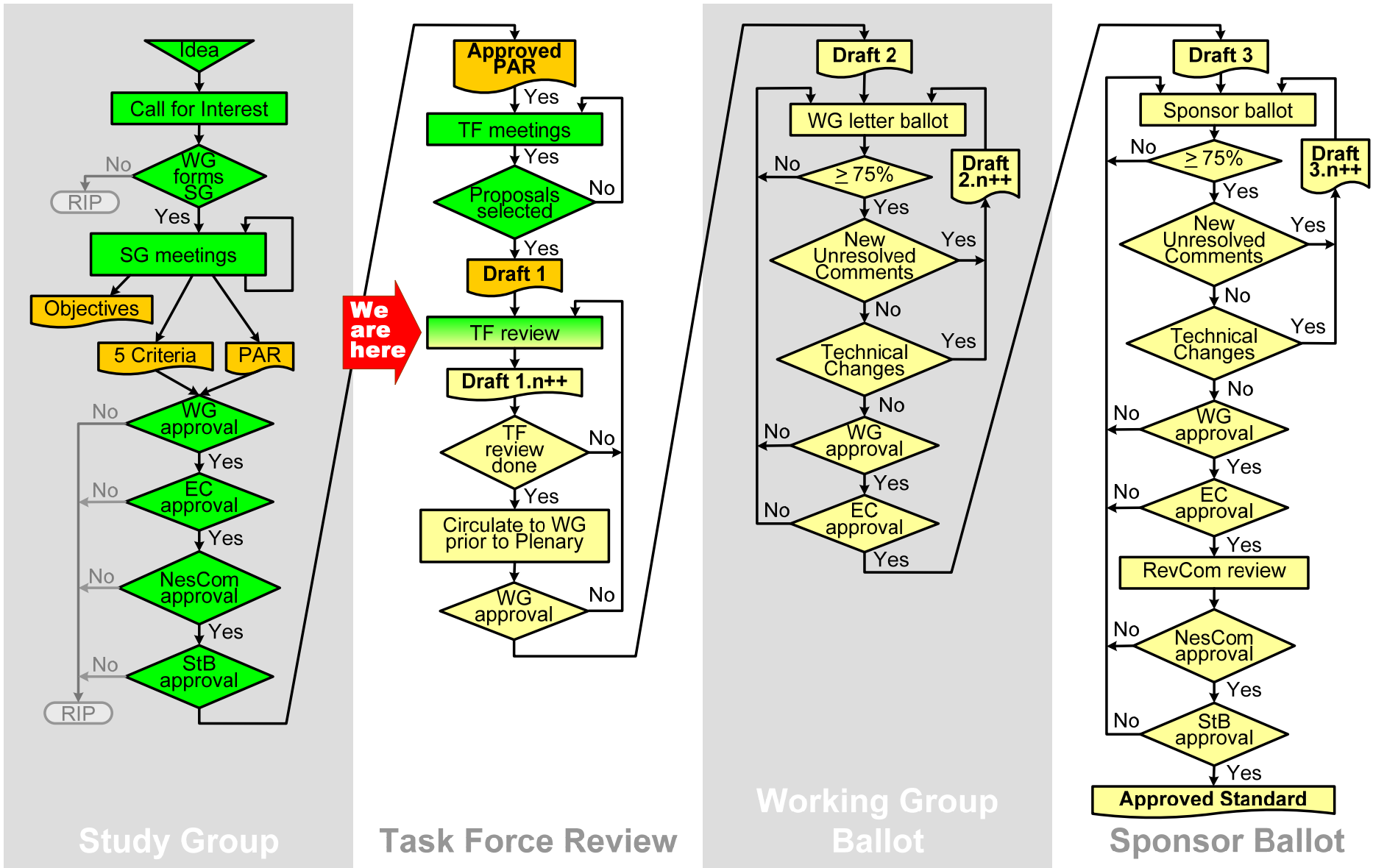
- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
  - Either speak up now or
  - Provide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

# 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.**

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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.

# Standardization Process



- ❑ Based upon IEEE 802.3 Rules
  - Foundation based upon Robert's Rules of Order
  - Anyone in the room may speak (when recognized by chair)
  - Anyone in the room may vote
- ❑ RESPECT... give it, get it
- ❑ NO product pitches
- ❑ NO corporate pitches
- ❑ NO prices!!!
  - This includes costs, ASPs, etc. no matter what the currency
- ❑ NO restrictive notices

- Currently 380 subscribers on P802.3av reflector

- To subscribe to 10GEPON reflector, send email to:

**[listserv@ieee.org](mailto:listserv@ieee.org)**

and include this line in the *body of the message*:

***subscribe stds-802-3-10GEPON*** *firstname lastname*

- Website URL:

**<http://www.ieee802.org/3/av/>**

- ❑ Draft documents will be posted in private folder
  - Drafts are copyrighted by IEEE
  - To prevent commercial use of pre-approved documents
  
- ❑ Private folder is password protected.
  - Password is only given to meeting participants at during meetings.
  - Password should not be publicly disclosed on the website or on the reflector.
  
- ❑ User Name:           **802.3av**
- ❑ Password:           **\* \* \* \* \***

## ❑ Task Force Chair

- Glen Kramer ([glen.kramer@teknovus.com](mailto:glen.kramer@teknovus.com))

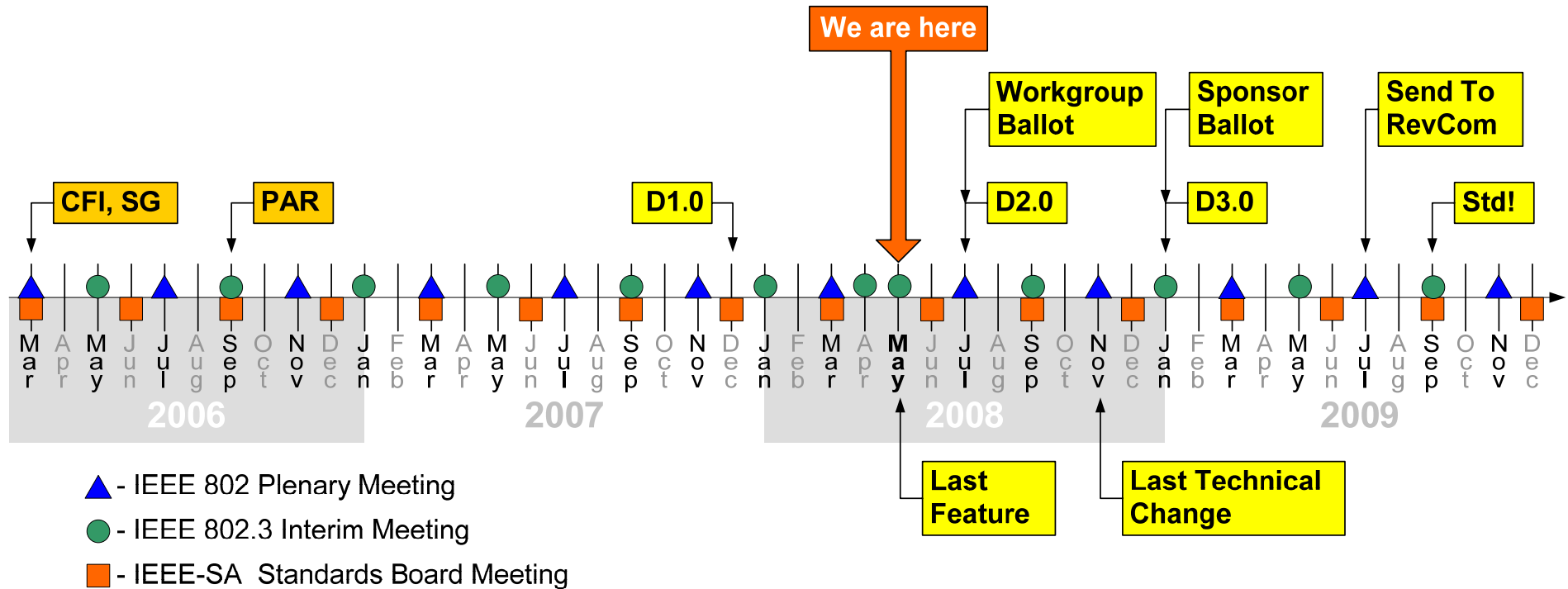
## ❑ Chief Editor

- Duane Remein ([duane.remein@alcatel-lucent.com](mailto:duane.remein@alcatel-lucent.com))
- Primary responsibility: clauses 1, 30, 45, 56, 92, 92A

## ❑ Assistant Editor

- Marek Hajduczenia ([marek.hajduczenia@nln.com](mailto:marek.hajduczenia@nln.com))
- Primary responsibility: clauses 91, 93

# TF Approved Project Timeline



Approved by TF on November 15, 2007

Y:29 N:0 A:4



## Motion #1

- Approve minutes of April 2008 meeting as recorded in **3av\_0804\_minutes\_unapproved.pdf** and post them on the TF website as **3av\_0804\_minutes\_approved.pdf**

- Moved:

- Seconded:

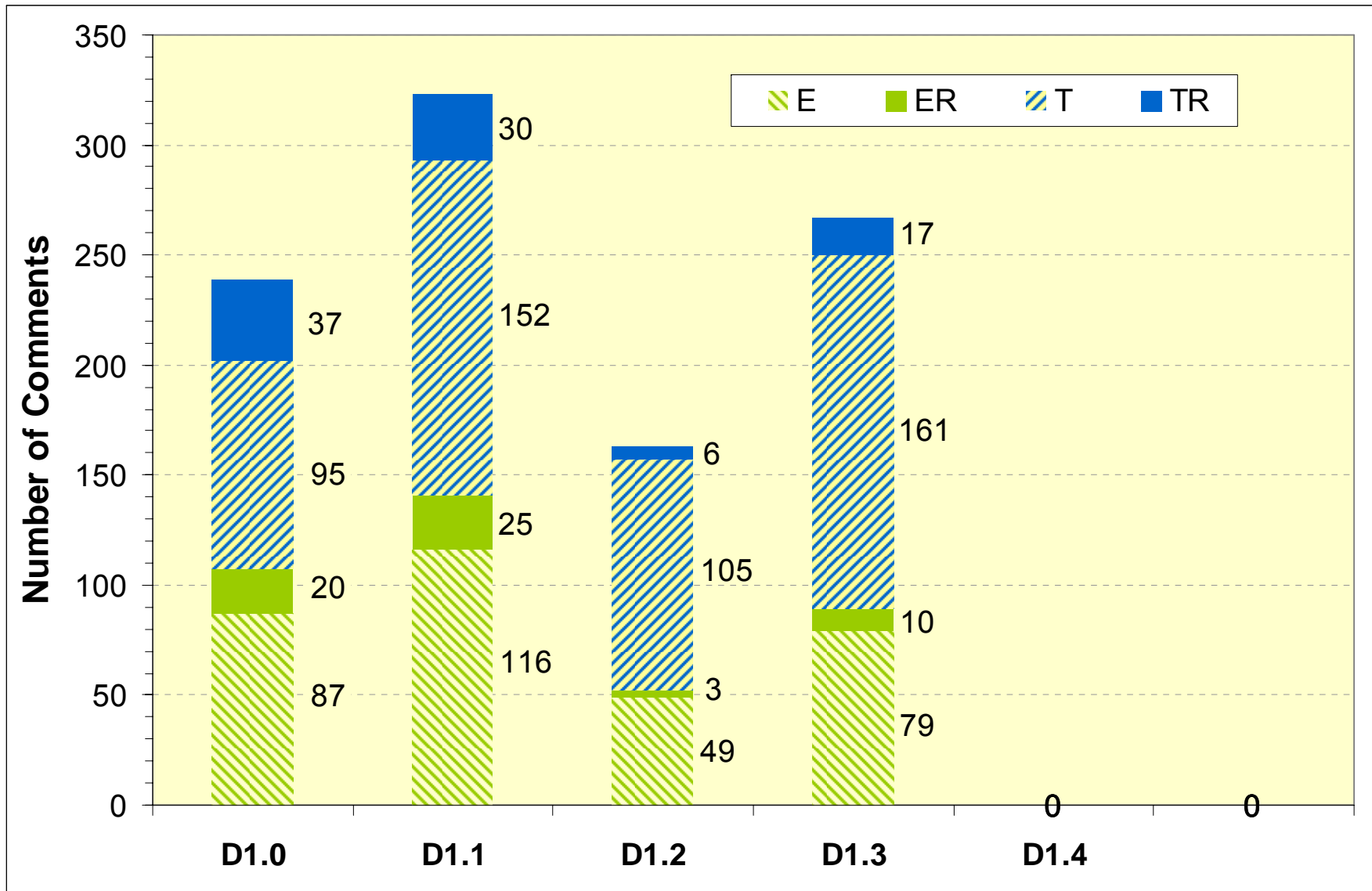
(Procedural, required  $\geq 50\%$ )

# Plan for April 2008 Meeting

- ❑ Ad Hoc Reports and Baseline Proposals
  - 4 presentations
- ❑ Comment Resolution

| Clause | Comment Type |           |            |           | Total      |
|--------|--------------|-----------|------------|-----------|------------|
|        | E            | ER        | T          | TR        |            |
| C-00   | 2            |           | 2          |           | 4          |
| C-30   | 1            |           | 6          | 3         | 10         |
| C-45   |              |           | 9          |           | 9          |
| C-56   | 2            |           | 4          |           | 6          |
| C-91   | 27           | 5         | 32         | 5         | 69         |
| A-91A  |              | 1         | 1          |           | 2          |
| C-92   | 23           | 1         | 66         | 8         | 98         |
| A-92A  | 3            | 1         | 3          |           | 7          |
| C-93   | 19           | 2         | 38         | 1         | 60         |
| C-99   | 2            |           |            |           | 2          |
|        | <b>79</b>    | <b>10</b> | <b>161</b> | <b>17</b> | <b>267</b> |

# Total Comments by Draft



# Schedule for Tuesday, May 13, 2008

| Start   | Duration      | Presenter         | Company        | Title  |
|---|---------------|-------------------|----------------|--|
| 8:30  | 1 hr          | Glen Kramer       | Teknovus       | Information, Introductions, Approval of Agenda, Minutes, Patent Policy |
| <b>New Features - Deferred from April Meeting</b>       |               |                   |                |  |
| 9:30  | 15 min        | Yasuyuki Kuroda   | OF Networks    | Consideration for Power Saving Functionality                           |
| 9:45  | 30 min        | Jeff Mandin       | PMC-Sierra     | Another Look at Powersave  |
| 10:15   | 15 min        | Coffee Break      |                |  |
| <b>Clause 91, Annex 91A (38 Ts &amp; TRs)</b>           |               |                   |                |  |
| 10:20   | 1 hr 30 min   | Marek Hajduczenia | Nokia Siemens  | Comment resolution   |
| 12:00   | 1.5 hr        | Lunch             |                |  |
| 13:30   | 2.5 hr        | Marek Hajduczenia | Nokia Siemens  | Comment resolution   |
| 16:00   | 30 min        | Coffee Break      |                |  |
| <b>Clauses 00, 01, 30, 45, 56, 99 (24 Ts &amp; TRs)</b> |               |                   |                |  |
| 16:30   | 2.5 hr        | Duane Remein      | Alcatel-Lucent | Comment resolution   |
| ~19:00  | <b>Recess</b> |                   |                |  |

- **Schedule times are estimates**

# Schedule for Wednesday, May 14, 2008

| Start   | Duration      | Presenter    | Company        | Title              |
|---|---------------|--------------|----------------|--------------------|
| <b>Clause 92, Annex 92A (77 Ts &amp; TRs)</b> |               |              |                |                    |
| 8:00  | 2 hr          | Duane Remein | Alcatel-Lucent | Comment resolution |
| 10:00   | 30 min        | Coffee Break |                |                    |
| 10:30   | 1.5 hr        | Duane Remein | Alcatel-Lucent | Comment resolution |
| 12:00   | 1.5 hr        | Lunch        |                |                    |
| 13:30   | 2 hr          | Duane Remein | Alcatel-Lucent | Comment resolution |
| 15:30   | 30 min        | Coffee Break |                |                    |
| 16:00   | 3 hr          | Duane Remein | Alcatel-Lucent | Comment resolution |
| ~19:00  | <b>Recess</b> |              |                |                    |

- **Schedule times are estimates**

# Schedule for Thursday, May 15, 2008

| Start                               | Duration       | Presenter         | Company             | Title  |
|-------------------------------------|----------------|-------------------|---------------------|--|
| <b>Clause 93 (39 Ts &amp; TRs)</b>  |                |                   |                     |  |
| 8:00                                | 2 hr           | Marek Hajduczenia | Nokia Siemens       | Comment resolution   |
| 10:00                               | 30 min         | Coffee Break      |                     |  |
| 10:30                               | 1.5 hr         | Marek Hajduczenia | Nokia Siemens       | Comment resolution   |
| 12:00                               | 1.5 hr         | Lunch             |                     |  |
| 13:30                               | 1.5 hr         | Marek Hajduczenia | Nokia Siemens       | Comment resolution   |
| 15:00                               | 30 min         | Coffee Break      |                     |  |
| <b>New Features (Post-deadline)</b> |                |                   |                     |  |
| 15:30                               | 15 min         | Kenichi Suzuki    | NTT                 | Consideration of Extended MPCP message for 10G-EPON          |
| 15:45                               | 15 min         | Seiji Kozaki      | Mitsubishi Electric | Proposal of low frequency jitter specifications for 10G-EPON |
| 16:00                               | 1 hr           |                   |                     | Additional discussion, New business,                         |
| 17:00                               | 45 min         | Glen Kramer       | Teknovus            | Closing Remarks, Motions, Plan for July                      |
| ~17:45                              | <b>Adjourn</b> |                   |                     |  |

- **Schedule times are estimates**

# 10G-EPON

## Scope of P802.3av PAR

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## ❑ 2.1 Title of Standard:

<...> Amendment: Physical Layer Specifications and Management Parameters for 10Gb/s Passive Optical Networks

## ❑ 5.2 Scope of Proposed Standard:

The scope of this project is to amend IEEE Std 802.3 to add physical layer specifications and management parameters for symmetric and/or asymmetric operation at 10 Gb/s on point-to-multipoint passive optical networks.

## ❑ 5.4 Purpose of Proposed Standard:

To significantly increase performance of point-to-multipoint architecture (Ethernet Passive Optical Network) to support emerging bandwidth-intensive services while considering equipment, operation, upgrade, and maintenance costs.



## □ Already in the draft

- **Adjustable Laser on/off times** (3av\_0711\_suzuki\_1.pdf)
  - PHY feature, but required MPCP support
  - In scope

## □ New Proposals

- **Power-saving in MPCP** (3av\_0804\_kuroda\_1.pdf)
  - MAC Control feature, not related to PHY
  - Not in scope
- **Vendor-defined MPCP message** (3av\_0805\_suzuki\_2.pdf)
  - MAC Control feature, not related to PHY
  - Not in scope

## 3. Task Forces

### 3.1 Function

The function of the Task Force is to produce a draft standard, recommended practice or guideline. These shall be within the scope of the LMSC, the charter of the WG and under an approved PAR as established by the LMSC EC and approved by the IEEE Standards Board.

### 3.4.3 Task Force Chair's Responsibilities

The main responsibility of the TF Chair is to ensure the production, and to guide through the approval and publication process, a draft standard, recommended practice or guideline, or revision to an existing document as defined by the relevant PAR.

- ❑ If we accept out-of-scope features, then we need to change the scope of the project
  - New Features should be presented to 802.3
    - Get 802.3 approval ( $\geq 75\%$ ) to add new features
  - TF should prepare modified PAR, 5 Criteria, and Objectives
    - Get TF approval ( $\geq 75\%$ )
  - Get 802.3 approval ( $\geq 75\%$ )
  - Get 802.3 EC approval
  - Get IEEE NesCom approval
  - Get IEEE-SA SB approval
  
- ❑ Work equivalent to starting a new project

- ❑ Out-of-scope proposals (3av\_0805\_kuroda\_1.pdf and 3av\_0805\_suzuki\_1.pdf)

– shall not be presented: .....\_\_1\_\_

– shall be presented and discussed: ...\_\_21\_\_

– Total in the room: 30

## Motion #2

- ❑ Approve the agenda for May 2008 meeting as presented in 3av\_0805\_agenda.pdf on slides 20-22

- Moved:
- Seconded:

(Procedural, required  $\geq 50\%$ )

# Plan for July

|  | Mon | Tue | Wed | Thu | Fri | Sat | Sun |
|--|-----|-----|-----|-----|-----|-----|-----|
| <b>M</b><br><b>a</b><br><b>y</b>             |     |     |     | 1   | 2   | 3   | 4   |
|  | 5   | 6   | 7   | 8   | 9   | 10  | 11  |
|  | 12  | 13  | 14  | 15  | 16  | 17  | 18  |
|  | 19  | 20  | 21  | 22  | 23  | 24  | 25  |
|  | 26  | 27  | 28  | 29  | 30  | 31  | 1   |
| <b>J</b><br><b>u</b><br><b>n</b><br><b>e</b> | 2   | 3   | 4   | 5   | 6   | 7   | 8   |
|  | 9   | 10  | 11  | 12  | 13  | 14  | 15  |
|  | 16  | 17  | 18  | 19  | 20  | 21  | 22  |
|  | 23  | 24  | 25  | 26  | 27  | 28  | 29  |
|  | 30  | 1   | 2   | 3   | 4   | 5   | 6   |
| <b>J</b><br><b>u</b><br><b>l</b><br><b>y</b> | 7   | 8   | 9   | 10  | 11  | 12  | 13  |
|  | 14  | 15  | 16  | 17  | 18  | 19  | 20  |
|  | 21  | 22  | 23  | 24  | 25  | 26  | 27  |
|  | 28  | 29  | 30  | 31  |     |     |     |

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**May 30** Draft 1.4 is published

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**June 16** Comments are due

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**July 3** Comment responses are published

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**July 3** Draft 1.4 pre-submitted to WG

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**July 15-17** Comments resolved, Draft 2.0 is created

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## □ 2.8.2 Draft Standard Balloting Requirements:

Before a draft is submitted to WG letter ballot it shall in addition have met the following requirements:

1. It must be complete with no open technical issues.
2. It must be made available for pre-view by the membership by the Monday prior to the plenary week. If any changes are made to the draft after the draft was made available for pre-view, the textual changes shall be presented for review during the closing plenary immediately prior to the vote for approval to go to WG ballot.
3. It must be formatted according to the IEEE style selected by the WG Chair. This style will be selected to minimize the editorial work required for publication of the draft.
4. It must be approved for submittal to WG ballot at the WG closing plenary.

- ❑ New electronic tool provided by IEEE-SA for tracking meeting attendance
- ❑ IEEE 802.3 Ethernet Working Group will be testing this software during the July 2008 plenary session in Denver, CO, USA
  - Attendance books will also be circulated during this trial period
- ❑ To use the tool, an IEEE Web Account is required
  - This is the same account IEEE Members use to access online services
  - If you have used **myProject** in the recent past (e.g. participated in a Sponsor ballot), then you have a web account
- ❑ Do you have an IEEE Web Account?
  - **NO**
    - **CREATE A WEB ACCOUNT:** [www.ieee.org](http://www.ieee.org) → Set up IEEE Web Account
    - **FOLLOW THE INSTRUCTIONS TO CREATE NEW WEB ACCOUNT**
  - **MAYBE?** I have an IEEE Web Account but I don't remember the password
    - **RESET YOUR PASSWORD:** [www.ieee.org](http://www.ieee.org) → Set up IEEE Web Account
  - **MAYBE?** I don't remember my IEEE Web Account username
    - **CONTACT:** Christina Sahr at [c.sahr@ieee.org](mailto:c.sahr@ieee.org)
- ❑ Instructions to use the tool will be provided at the July 2008 meeting



- ❑ **June 19-20, 2008, ITU-T HQ in Geneva, Switzerland**
- ❑ The goal of this workshop is to review the key areas within ITU-T and IEEE 802.3 that are responsible for the development of broadband optical access network standards.
- ❑ The relevant standards groups are ITU-T Q2/15 on optical access network systems and IEEE P802.3av Task Force on 10Gb/s PHY for EPON.
- ❑ This workshop will cover the network evolution scenario, service requirements, the transport mechanism and the physical layer for next generation optical access systems. The event will focus on the opportunities for further collaboration in the development of optical access network system standards.
- ❑ See <http://www.itu.int/ITU-T/worksem/ngoas/index.html>

# Future Meetings

## 2008

Plenary

Interim

|                 |  |
|-----------------|--|
| January 22-25   | Portland, OR (Host – Intel Corp.)  |
| March 17-20     | Caribe Royale, Orlando, FL   |
| April 13-14     | Tokyo, Japan (Host – NTT)  |
| May 12-16       | Munich, Germany (Host – Linear Tech.)  |
| July 14-17      | Hyatt Regency Denver at the Colorado Convention Center, Denver, Colorado USA |
| September 15-19 | Chengdu, PR China (Host – Huawei Tech.)                                      |
| November 10-13  | Hyatt Regency Dallas, TX USA   |

## 2009

|                |  |
|----------------|--|
| January        | TBD  |
| March          | TBD  |
| May            | TBD  |
| July 15-20     | Hyatt Regency @ Embarcadero, San Francisco, CA |
| September      | TBD  |
| November 15-20 | Hyatt Regency Atlanta, GA USA                  |

- ❑ Many thanks to Linear Technology and Dave Dwelley for hosting the Interim
- ❑ Please see the IEEE 802.3 registration desk to complete your registration and pickup your badge
- ❑ You must wear your badge at all times during the session
- ❑ Wireless Network Information- Swisscom
  - Account: \*\*\*\*\*
  - Password: \*\*\*\*\*
  - Case-sensitive
- ❑ Works in your hotel room and the meeting rooms Monday-Thursday