

IEEE P802.3av 10GEPON Task Force

Agenda and General Information

Orlando, FL

March 18-20, 2008

Glen Kramer, glen.kramer@ieee.org

Outline

- 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

Recording Secretary



Bylaws and Rules

- 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://ieee802.org/policies-and-procedures.pdf>
- IEEE 802.3 Working Group Operating Rules:
 - http://ieee802.org/3/rules/P802_3_rules.pdf

Changes to IEEE-SA Operations Manual

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 #5 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 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 the five slides 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) that the participant believes 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.
 - It is recommended that the WG chair review the guidance in the *Standards Companion* on inclusion of potential Essential Patent Claims by normative reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees.



Highlights of the *IEEE-SA Standards Board* **Bylaws on Patents in Standards**

- **Participants have a duty to tell the IEEE if they know (based on personal awareness) of potentially Essential Patent Claims they or their employer own**
- **Participants are encouraged to tell the IEEE if they know of potentially Essential Patent Claims owned by others**
 - This encouragement is particularly strong as the third party may not be a participant in the standards process
- **Working Group is required to request assurance**
- **Early assurance is encouraged**
- **Terms of assurance shall be either:**
 - Reasonable and nondiscriminatory, with or without monetary compensation; or,
 - A statement of non-assertion of patent rights
- **Assurances**
 - Shall be provided on the IEEE-SA Standards Board approved LOA form
 - May optionally include not-to-exceed rates, terms, and conditions
 - Shall not be circumvented through sale or transfer of patents
 - Shall be brought to the attention of any future assignees or transferees
 - Shall apply to Affiliates unless explicitly excluded
 - Are irrevocable once submitted and accepted
 - Shall be supplemented if Submitter becomes aware of other potential Essential Patent Claims
- **A “Blanket Letter of Assurance” may be provided at the option of the patent holder**
- **A patent holder has no duty to perform a patent search**
- **Full policy available at <http://standards.ieee.org/guides/bylaws/sect6-7.html#6>**

IEEE-SA Standards Board Bylaws on Patents in Standards

6.2 Policy

IEEE standards may be drafted in terms that include the use of Essential Patent Claims. If the IEEE receives notice that a [Proposed] IEEE Standard may require the use of a potential Essential Patent Claim, the IEEE shall request licensing assurance, on the IEEE Standards Board approved Letter of Assurance form, from the patent holder or patent applicant. The IEEE shall request this assurance without coercion.

The Submitter of the Letter of Assurance may, after Reasonable and Good Faith Inquiry, indicate it is not aware of any Patent Claims that the Submitter may own, control, or have the ability to license that might be or become Essential Patent Claims. If the patent holder or patent applicant provides an assurance, it should do so as soon as reasonably feasible in the standards development process once the PAR is approved by the IEEE-SA Standards Board. This assurance shall be provided prior to the Standards Board's approval of the standard. This assurance shall be provided prior to a reaffirmation/stabilization if the IEEE receives notice of a potential Essential Patent Claim after the standard's approval or a prior reaffirmation/stabilization. An asserted potential Essential Patent Claim for which an assurance cannot be obtained (e.g., a Letter of Assurance is not provided or the Letter of Assurance indicates that assurance is not being provided) shall be referred to the Patent Committee.

A Letter of Assurance shall be either:

- a) A general disclaimer to the effect that the Submitter without conditions will not enforce any present or future Essential Patent Claims against any person or entity making, using, selling, offering to sell, importing, distributing, or implementing a compliant implementation of the standard; or
- b) A statement that a license for a compliant implementation of the standard will be made available to an unrestricted number of applicants on a worldwide basis without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination. At its sole option, the Submitter may provide with its assurance any of the following:
 - (i) a not-to-exceed license fee or rate commitment, (ii) a sample license agreement, or (iii) one or more material licensing terms.

IEEE-SA Standards Board Bylaws on Patents in Standards

Copies of an Accepted LOA may be provided to the working group, but shall not be discussed, at any standards working group meeting.

The Submitter and all Affiliates (other than those Affiliates excluded in a Letter of Assurance) shall not assign or otherwise transfer any rights in any Essential Patent Claims that are the subject of such Letter of Assurance that they hold, control, or have the ability to license with the intent of circumventing or negating any of the representations and commitments made in such Letter of Assurance.

The Submitter of a Letter of Assurance shall agree (a) to provide notice of a Letter of Assurance either through a Statement of Encumbrance or by binding any assignee or transferee to the terms of such Letter of Assurance; and (b) to require its assignee or transferee to (i) agree to similarly provide such notice and (ii) to bind its assignees or transferees to agree to provide such notice as described in (a) and (b).

This assurance shall apply to the Submitter and its Affiliates except those Affiliates the Submitter specifically excludes on the relevant Letter of Assurance.

If, after providing a Letter of Assurance to the IEEE, the Submitter becomes aware of additional Patent Claim(s) not already covered by an existing Letter of Assurance that are owned, controlled, or licensable by the Submitter that may be or become Essential Patent Claim(s) for the same IEEE Standard but are not the subject of an existing Letter of Assurance, then such Submitter shall submit a Letter of Assurance stating its position regarding enforcement or licensing of such Patent Claims. For the purposes of this commitment, the Submitter is deemed to be aware if any of the following individuals who are from, employed by, or otherwise represent the Submitter have personal knowledge of additional potential Essential Patent Claims, owned or controlled by the Submitter, related to a [Proposed] IEEE Standard and not already the subject of a previously submitted Letter of Assurance: (a) past or present participants in the development of the [Proposed] IEEE Standard, or (b) the individual executing the previously submitted Letter of Assurance.

IEEE-SA Standards Board Bylaws on Patents in Standards

The assurance is irrevocable once submitted and accepted and shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal.

The IEEE is not responsible for identifying Essential Patent Claims for which a license may be required, for conducting inquiries into the legal validity or scope of those Patent Claims, or for determining whether any licensing terms or conditions provided in connection with submission of a Letter of Assurance, if any, or in any licensing agreements are reasonable or non-discriminatory.

Nothing in this policy shall be interpreted as giving rise to a duty to conduct a patent search. No license is implied by the submission of a Letter of Assurance.

In order for IEEE's patent policy to function efficiently, individuals participating in the standards development process: (a) shall inform the IEEE (or cause the IEEE to be informed) of the holder of any potential Essential Patent Claims of which they are personally aware and that are not already the subject of an existing Letter of Assurance, owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents; and (b) should inform the IEEE (or cause the IEEE to be informed) of any other holders of such potential Essential Patent Claims that are not already the subject of an existing Letter of Assurance.

Other Guidelines for IEEE WG Meetings

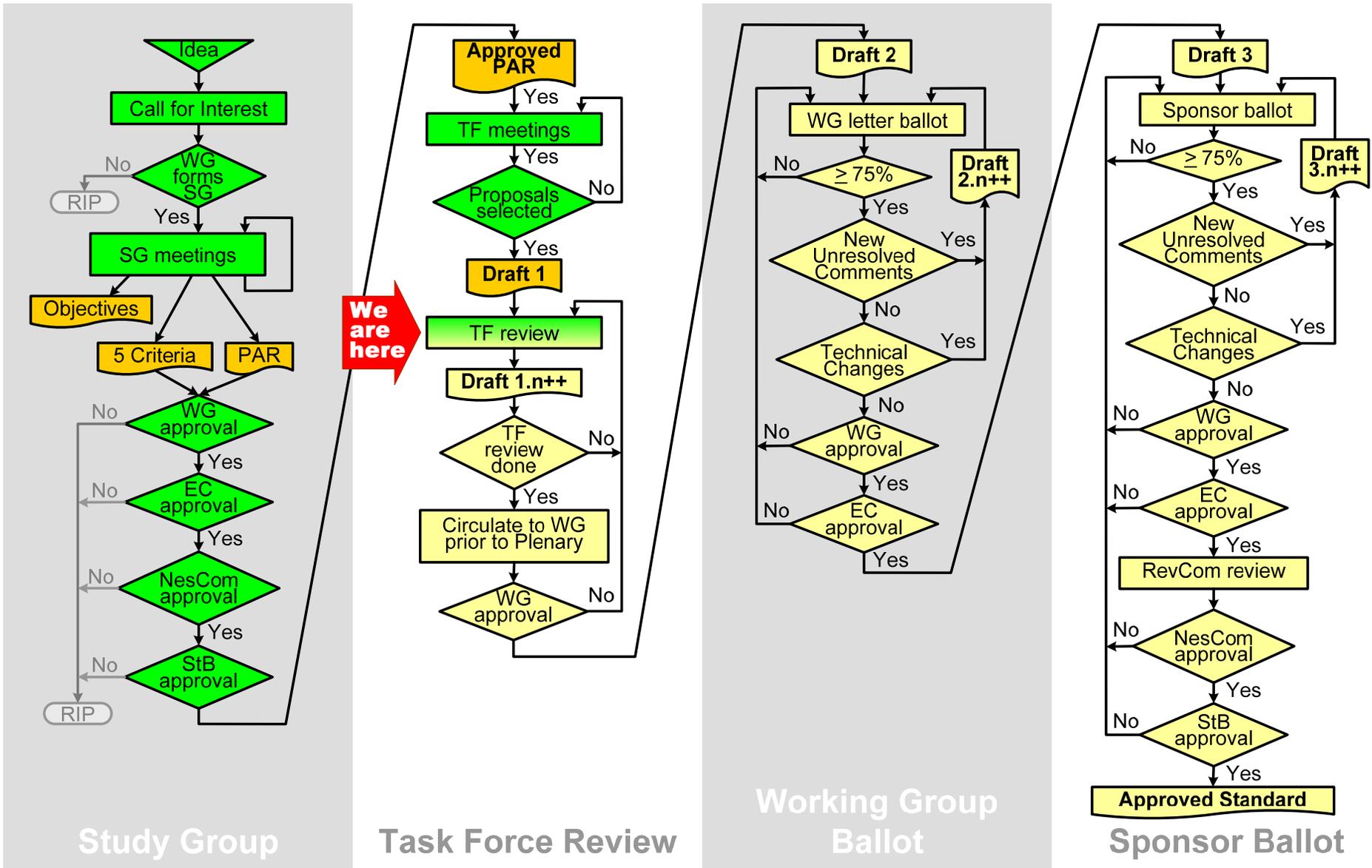
- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
- Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
- Don't discuss specific license rates, terms, or conditions.
 - Relative costs, 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 fixing product prices, allocation of customers, or dividing 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.

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

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.

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

Standardization Process



Ground Rules

- 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

Reflector and Web

- Currently 380 subscribers on P802.3av reflector
- To subscribe to 10GEPON reflector, send email to:

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/>

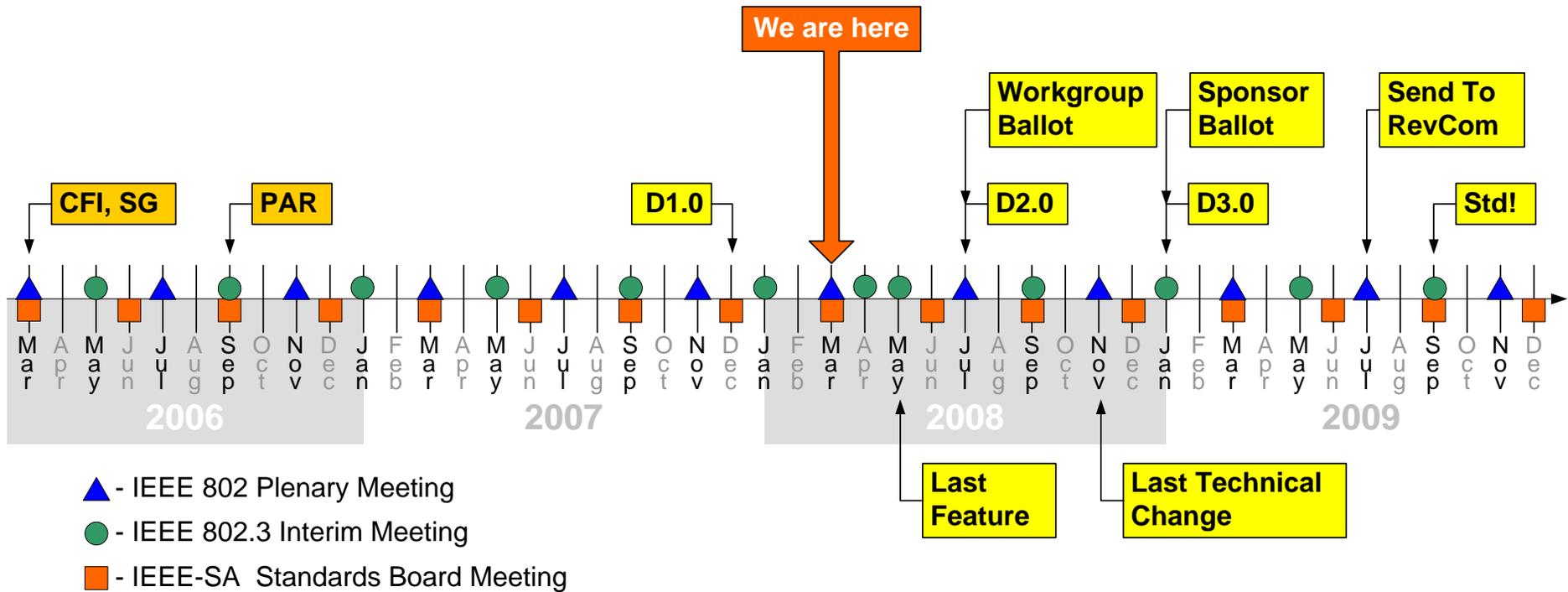
Private Directory

- 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: *********

IEEE 802.3av Officers

- Task Force Chair
 - Glen Kramer (glen.kramer@teknovus.com)
- Chief Editor
 - Duane Remein (duane.remein@alcatel-lucent.com)
 - Primary responsibility: clauses 1, 30, 45, 92
- Assistant Editor
 - Marek Hajduczenia (marek.hajduczenia@nsn.com)
 - Primary responsibility: clauses 91, 91A, 93

TF Approved Project Timeline



Approved by TF on November 15, 2007

Y:29 N:0 A:4

Approval of Last Meeting's Minutes

Motion #1

- Approve minutes of January 2008 meeting as recorded in **3av_0801_minutes_unapproved.pdf** and post them on the TF website as **3av_0801_minutes_approved.pdf**

– Moved:

– Seconded:

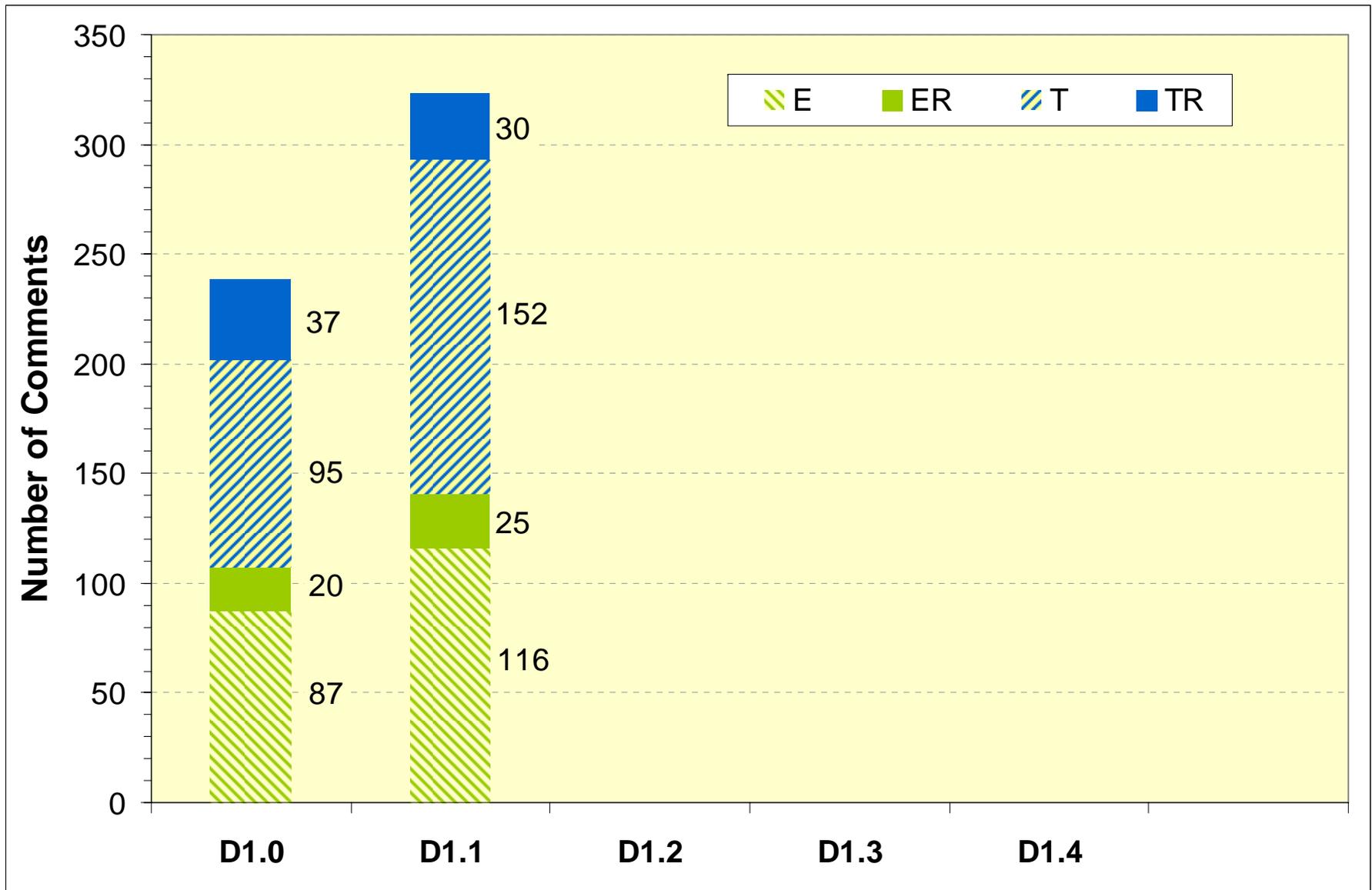
(Procedural, required $\geq 50\%$)

Plan for March 2008 Meeting

- Ad Hoc Reports and Baseline Proposals
 - 6 presentations
- Comment Resolution

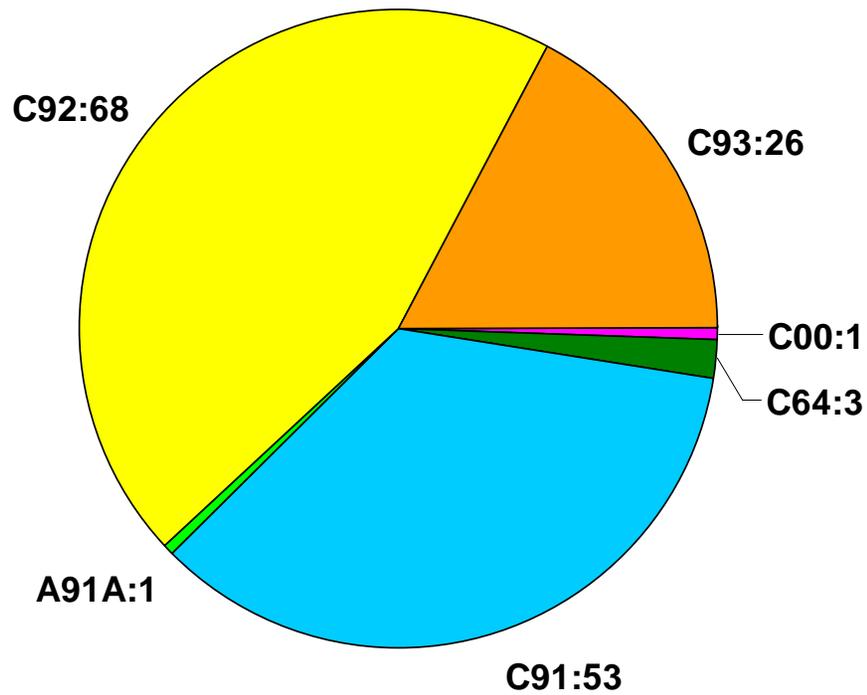
| Clause | Comment Type | | | | Total |
|-------------|--------------|-----------|------------|-----------|------------|
| | E | ER | T | TR | |
| C00 | 3 | 2 | 1 | 1 | 7 |
| C01 | 2 | | | 1 | 3 |
| C30 | 2 | | | | 2 |
| C64 | | | 3 | 1 | 4 |
| C91 | 34 | 7 | 53 | 15 | 109 |
| A91A | | | 1 | | 1 |
| C92 | 67 | 16 | 68 | 7 | 158 |
| C93 | 8 | | 26 | 5 | 39 |
| | 116 | 25 | 152 | 30 | 323 |

Total Comments by Draft



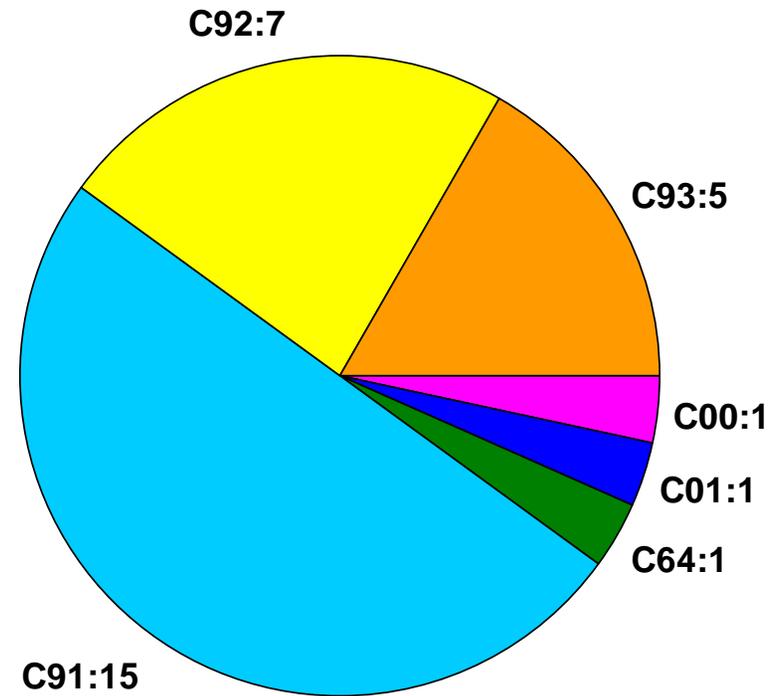
Technical by Clause

T



Total: 152

TR



Total: 30

Schedule for Tuesday, March 18, 2008

| Start | Duration | Presenter | Company | Title |
|---|---------------|-------------------|------------------------|--|
| 8:30 | 45 min | Glen Kramer | Teknovus | Information, Introductions, Approval of Agenda, Minutes, Patent Policy |
| Clause 91, Annex 91A | | | | |
| 9:15 | 20 min | Vijay Pathak | Kawasaki Electronics | 10GEPON Jitter Budget |
| 9:35 | 30 min | Haim Ben-Amram | PMC-Sierra | Symmetric 10GEPON – Jitter Budget |
| 10:05 | 25 min | Coffee Break | | |
| 10:30 | 30 min | Rujian Lin | SLTP | 10GEPON Burst Timing in Coexistence Situation |
| 11:00 | 20 min | Takeshi Nagahori | NEC | Proposal on Dual-Rate Burst-mode Receiver Timing |
| 11:20 | 40 min | Marek Hajduczenia | Nokia Siemens Networks | Comment resolution |
| 12:00 | 1.5 hr | Lunch | | |
| 13:30 | 1.5 hr | Marek Hajduczenia | Nokia Siemens Networks | Comment resolution |
| 15:00 | 30 min | Coffee Break | | |
| 15:30 | 3 hr | Marek Hajduczenia | Nokia Siemens Networks | Comment resolution |
| Ad hoc on Structure of Clause 64 (option #2) | | | | |
| 18:30 | 15 min | Marek Hajduczenia | Nokia Siemens Networks | Ad hoc report, Q&A for discussion on Wednesday |
| ~18:45 | Recess | | | |

Schedule for Wednesday, March 19, 2008

| Start | Duration | Presenter | Company | Title |
|--|---------------|-------------------|------------------------|---|
| Clause 92 | | | | |
| 8:30 | 2.0 hr | Duane Remein | Alcatel-Lucent | Comment resolution |
| 10:30 | 30 min | Coffee Break | | |
| 11:00 | 1 hr | Duane Remein | Alcatel-Lucent | Comment resolution |
| 12:00 | 1.5 hr | Lunch | | |
| 13:30 | 1.5 hr | Duane Remein | Alcatel-Lucent | Comment resolution |
| To be discussed with comments #993, #994 | | Seiji Kozaki | Mitsubishi Electric | Proposal of modifications for PCS receiver function |
| 15:00 | 30 min | Coffee Break | | |
| 15:30 | 1 hr | Duane Remein | Alcatel-Lucent | Comment resolution |
| Clauses 64 and 93 | | | | |
| 16:30 | 15 min | Yasuyuki Kuroda | OF Networks | Consideration for power-saving functionality |
| 16:45 | 1 hr 45 min | Marek Hajduczenia | Nokia Siemens Networks | Comment resolution |
| ~18:30 | Recess | | | |

Schedule for Thursday, March 20, 2008

| Start | Duration | Presenter | Company | Title |
|---|----------------|-------------------|------------------------|---|
| Clauses 64 and 93 (Cont.) | | | | |
| 8:30 | 1.0 hr | Marek Hajduczenia | Nokia Siemens Networks | Comment resolution |
| Other Clauses, Additional discussion | | | | |
| 9:30 | 30 min | Duane Remein | Alcatel-Lucent | Comment resolution C00, C01, C30 |
| 10:00 | 30 min | Coffee Break | | |
| 10:30 | 1 hr | | | Any additional discussion, comment resolution |
| 11:30 | 30 min | Glen Kramer | Teknovus | New business, Closing Remarks, Plan for April |
| ~18:30 | Adjourn | | | |

(!) On average, we have 4.5 min/comment

Motion to Approve the Agenda

Motion #2

- **Approve the agenda for March 2008 meeting as presented in 3av_0803_agenda.pdf on slides 22, 23**

– Moved:

– Seconded:

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

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 |

Joint ITU-T/IEEE Workshop

- **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.