



IEEE 1904 Access Networks Working Group

Opening report

Glen Kramer, glen.kramer@ieee.org

- Please, state
 - Your name
 - Your affiliation

IEEE SA Standards Board 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.

Executive Secretary Report

- ❑ Posted at
http://www.ieee1904.org/meeting_archive/2020/06/anwg_2006_exec_report.pdf
- ❑ Membership Updates
- ❑ Establishment of Quorum

Administrative matters

- Appoint an election officer
- Set a schedule for the election
- Do we need IEEE 1904 Operations Manual?

1904.2

- Draft gap analysis
 - I. What needs to be added to the draft to progress to D1.0
 - II. What needs to be added to progress to D2.0
- Discussion on timeline
- Discussion on replacing the “UMT tunnel” term

1904.4

- Appoint 1904.4 Task force officers
- Discussion of 1904.4 timeline

Motion to Approve the Agenda

Motion #1

- ❑ **Approve the agenda for the June 2020 meeting as presented in `anwg_2006_agenda.pdf`**

- Moved: Kevin Noll
- Second: Marek Hajduczenia

(Procedural, required > 50%)

Passed by voice without opposition



IEEE Guidelines

- Patent Policy and Call for Patents
- Participant behavior in IEEE-SA activities

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:**
 - 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 IEEE is not aware. Additionally, neither 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 have a duty to inform the IEEE

- 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
- Participants should inform the IEEE (or cause the IEEE to be informed) of the identity of any other holders of potential Essential Patent Claims

**Early identification of holders of potential
Essential Patent Claims is encouraged**

Ways to inform IEEE

- Cause an LOA to be submitted to the IEEE-SA (patcom@ieee.org); 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
- **Speak up now and respond to this 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, please respond at this time by providing relevant information to the WG Chair

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 of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
 - Technical considerations remain the 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.

For more details, see *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and *Antitrust and Competition Policy: What You Need to Know* at <http://standards.ieee.org/develop/policies/antitrust.pdf>

Patent-related information

The patent policy and the procedures used to execute that policy are documented in the:

- ***IEEE-SA Standards Board 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**

Participant behavior in IEEE-SA activities is guided by the IEEE Codes of Ethics & Conduct

- All participants in IEEE-SA activities are expected to adhere to the core principles underlying the:
 - [IEEE Code of Ethics](#)
 - [IEEE Code of Conduct](#)
- The core principles of the IEEE Codes of Ethics & Conduct are to:
 - *Uphold the highest standards of integrity, responsible behavior, and ethical and professional conduct*
 - *Treat people fairly and with respect, to not engage in harassment, discrimination, or retaliation, and to protect people's privacy.*
 - *Avoid injuring others, their property, reputation, or employment by false or malicious action*
- The most recent versions of these Codes are available at <http://www.ieee.org/about/corporate/governance>

Participants in the IEEE-SA “*individual process*” shall act independently of others, including employers

- The [IEEE-SA Standards Board Bylaws](#) require that “*participants in the IEEE standards development individual process shall act based on their qualifications and experience*”
- This means participants:
 - **Shall act & vote** based on their personal & independent opinions derived from their expertise, knowledge, and qualifications
 - **Shall not act or vote** based on any obligation to or any direction from any other person or organization, including an employer or client, regardless of any external commitments, agreements, contracts, or orders
 - **Shall not direct** the actions or votes of other participants or retaliate against other participants for fulfilling their responsibility to act & vote based on their personal & independently developed opinions
- By participating in standards activities using the “*individual process*”, you are deemed to accept these requirements; if you are unable to satisfy these requirements then you shall immediately cease any participation

IEEE-SA standards activities shall allow the fair & equitable consideration of all viewpoints

- The [IEEE-SA Standards Board Bylaws](#) (clause 5.2.1.3) specifies that *“the standards development process shall not be dominated by any single interest category, individual, or organization”*
 - This means no participant may exercise *“authority, leadership, or influence by reason of superior leverage, strength, or representation to the exclusion of fair and equitable consideration of other viewpoints”* or *“to hinder the progress of the standards development activity”*
- This rule applies equally to those participating in a standards development project and to that project’s leadership group
- Any person who reasonably suspects that dominance is occurring in a standards development project is encouraged to bring the issue to the attention of the Standards Committee or the project’s IEEE-SA Program Manager

- ☐ No audio or video recording
- ☐ No photography
- ☐ No job recruiting
- ☐ No product pitches
- ☐ No corporate pitches
- ☐ No prices
 - This includes costs, ASPs, etc. no matter what the currency
- ☐ No restrictive notices

- ☐ Attendance of the press should be announced

Links to Guiding Documents

- ❑ **IEEE Standards Association Operations Manual**
<https://standards.ieee.org/about/policies/sa-opman/index.html>
- ❑ **IEEE-SA Standards Board Bylaws**
<https://standards.ieee.org/about/policies/bylaws/index.html>
- ❑ **IEEE-SA Standards Board Operations Manual**
<https://standards.ieee.org/about/policies/opman/index.html>
- ❑ **Antitrust and Competition Policy**
<https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/antitrust.pdf>
- ❑ **IEEE Code of Conduct**
https://www.ieee.org/content/dam/ieee-org/ieee/web/org/about/ieee_code_of_conduct.pdf
- ❑ **IEEE Code of Ethics**
<https://www.ieee.org/about/corporate/governance/p7-8.html>

Approval of Last WG Meeting's Minutes

Motion #2

- ❑ Approve minutes of March 2020 meeting as recorded in **anwg_2003_minutes_unapproved.pdf**.
- ❑ Post the approved minutes on the WG website as **anwg_2003_minutes_approved.pdf**

– Moved: Zhou Zhen

– Seconded: Marek Hajduczenia

(Procedural, required > 50%)

Motion passed by voice vote without opposition

□ IEEE 1904 Policies and Procedures

- Approved by Sponsor on April 16, 2020
- Posted at:
http://www.ieee1904.org/documents/operations/anwg_PnP_approved.pdf

□ IEEE 1904.4 PAR

- Approved by Sponsor on April 16, 2020
- Approved by IEEE SASB on June 3, 2020
- Expires December 31, 2024
- Posted at:
http://www.ieee1904.org/4/documents/P1904_4_PAR.pdf

P1904.4 PAR changes



- ❑ After the WG and Sponsor approvals, a number of changes were made to the 1904.4 PAR to address NesCom comments
- ❑ Comment #1:
 - NesCom Convention 5 states in part "For references to other standards within the Scope and Purpose fields, the number, title, date (if appropriate), and source of the referenced standards shall be listed in the Additional Explanatory Notes field." Please provide the information requested on the standards listed in the Scope and Purpose.
- ❑ Comment #2:
 - Is this new project P1904.4 an extension of the same system-level ideas of P1904.1 onto a new speed PHY? If so, should P1904.1 be mentioned in the PAR, e.g, in Section 7.1?

7.1 Are there other standards or projects with a similar scope? Yes

Explanation: IEEE Std 1904.1™-2017 Standard for Service Interoperability in Ethernet Passive Optical Networks (SIEPON) has a similar scope, but it covers 1G-EPON and 10G-EPON architectures. The new standard will cover 25G-EPON and 50G-EPON architectures and, in addition to increased data rates, will specify system-level functions necessary to support multi-channel operation with channel bonding, new bandwidth allocation methods, and new logical link provisioning.

7.2 Is it the intent to develop this document jointly with another organization? No

8.1 Additional Explanatory Notes : Section 5.2 references the following standards:

IEEE Std 802.3™-2018, IEEE Standard for Ethernet.

IEEE Std 802.1Q™-2018, IEEE Standard for Local and Metropolitan Area Network--Bridges and Bridged Networks

P1904.4 PAR changes (cont.)

□ Comment #3:

- In 5.4, replace "The purpose of this standard is to build upon the IEEE Std 802.3ca (25G-EPON and 50G-EPON) Physical Layer and Data Link Layer standards and create a system-level and network-level standard, thus allowing full "plug-and-play" interoperability of the transport, service, and control planes in a multi-vendor environment." with "This standard builds upon the IEEE Std 802.3ca (25G-EPON and 50G-EPON) Physical Layer and Data Link Layer standards and creates a system-level and network-level standard, thus allowing full "plug-and-play" interoperability of the transport, service, and control planes in a multi-vendor environment." Reason: Unnecessary filling words "The purpose of this standard" and use of singular (creates) instead of plural (create).

5.4 Purpose: This standard builds upon the IEEE Std 802.3ca (25G-EPON and 50G-EPON) Physical Layer and Data Link Layer standards and creates a system-level and network-level standard, thus allowing full "plug-and-play" interoperability of the transport, service, and control planes in a multi-vendor environment.

- ❑ Posted at http://www.ieee1904.org/meeting_archive/2020/06/anwg_2006_treasurer_report.pdf

- ❑ Located at <http://www.ieee1904.org/>
 - Archived technical contributions and reflector messages are public
- ❑ ANWG Password-protected area
 - Standard drafts are password-protected (IEEE SA rules)
 - All online submission forms are password-protected to avoid spam.
 - TF2: http://www.ieee1904.org/private/2/tf2_presentproc.shtml
 - TF4: Coming soon
 - RMTF: http://www.ieee1904.org/private/revision/rmtf_maint_request.shtml
 - The same username/password for all task forces under 1904 WG
 - Username: * * * *
 - Password: * * * *

❑ 1904 WG Reflector

- Used for general discussions/announcements. **Everyone MUST subscribe!!!**
- Archive is public: http://www.ieee1904.org/wg_pub_archive.shtml
- Subscription instructions: http://www.ieee1904.org/wg_reflector.shtml

❑ 1904.2 TF Reflector

- Used for 1904.2 (Universal Management Tunnel) technical discussions
- Archive is public: <http://www.ieee1904.org/2/email/index.html>
- Subscription instructions: http://www.ieee1904.org/2/tf2_reflector.shtml

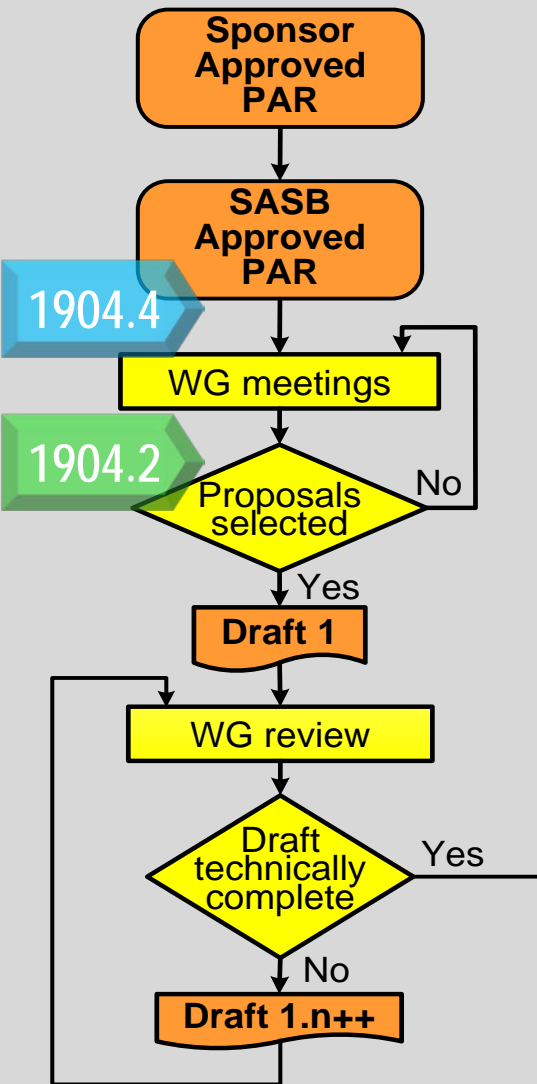
❑ 1904.4 TF Reflector

- Coming soon

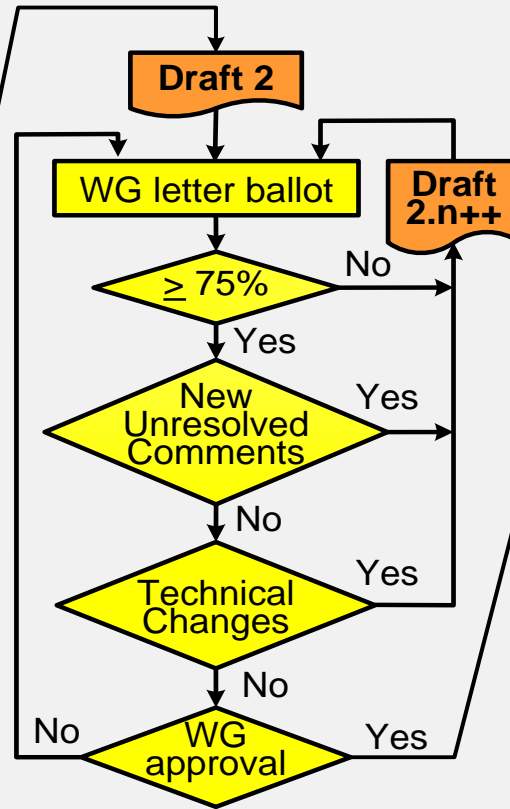
❑ RMTF Reflector

- Used for Revision & Maintenance technical discussions
- Archive is public: <http://www.ieee1904.org/3/email/index.html>
- Subscription instructions: http://www.ieee1904.org/revision/rmtf_reflector.shtml

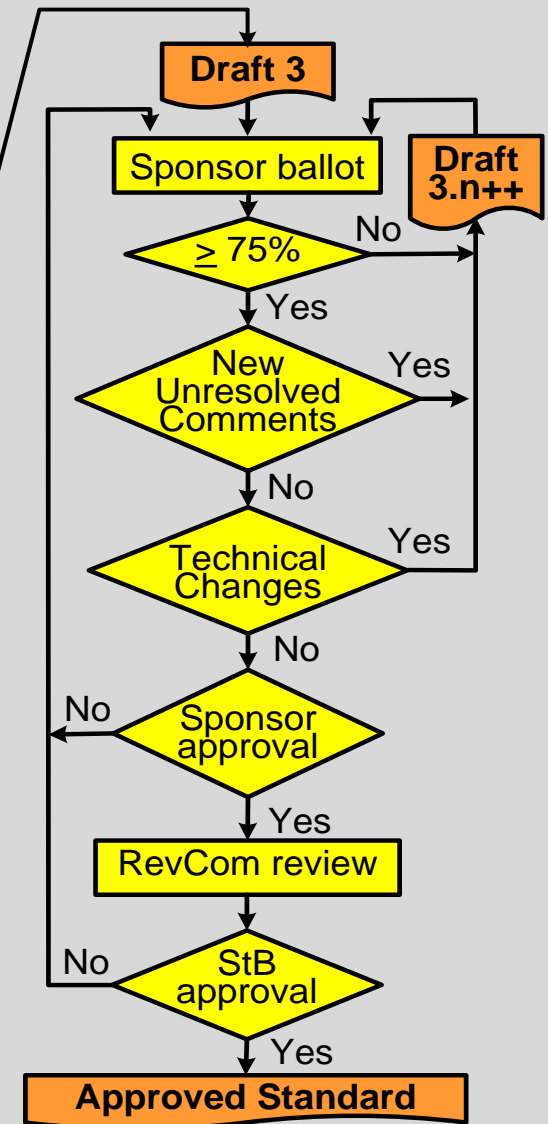
Current Project(s) Status



Working Group
Review



Working Group
Ballot



Sponsor Ballot 24



Do we need Operations Manual?

We used to have an OpsMan

- ❑ We had Operations Manual in the old entity-based 1904.1 SIEPON WG (http://www.ieee1904.org/1/documents/P1904_1_OpsMan.pdf)

- ❑ Covered:
 - Membership criteria
 - Voting rights
 - Voting procedures
 - Meeting hosting procedures
 - Financial operations
 - Operations of sub-groups

Table of Contents

| | |
|--|----|
| 1. PREFACE | 3 |
| 2. MODIFICATIONS TO THESE PROCEDURES | 3 |
| 2.1 History | 3 |
| 3. HIERARCHY | 3 |
| 4. MEMBERSHIP | 3 |
| 4.1 Membership Criteria | 4 |
| 4.1.1 Payment of Working Group fees | 4 |
| 4.1.2 Level of IEEE-SA Corporate Membership | 4 |
| 4.1.3 Working Group Participation | 4 |
| 4.2 Membership Types | 5 |
| 4.2.1 Voting Member | 5 |
| 4.2.2 Attaining Member | 5 |
| 4.2.3 Observer | 5 |
| 4.2.4 Visitor | 6 |
| 5. WORKING GROUP MEETINGS | 6 |
| 5.1 Required Attendance | 6 |
| 5.1.1 Attendance Tracking | 6 |
| 5.2 Conducting Votes | 7 |
| 5.2.1 Voting at Working Group Meetings | 7 |
| 5.2.1.1 Voting Methodology | 7 |
| 5.2.1.2 Vote by Voice | 7 |
| 5.2.1.3 Counted Vote | 8 |
| 5.2.1.4 Roll Call Vote | 8 |
| 5.2.1.5 Voting Card Misconduct | 8 |
| 5.2.2 Voting by Letter Ballot | 8 |
| 5.2.3 Voting on Draft Standards | 9 |
| 5.3 Meeting Contributions | 9 |
| 5.3.1 Requesting Presentation Time | 9 |
| 5.3.2 Post Deadline Contributions and Contributions from the Floor | 10 |
| 5.3.3 Restrictive Notices Prohibited | 10 |
| 5.4 Working Group Meeting Hosts | 10 |
| 5.5 Registration Policy | 11 |
| 6. WORKING GROUP FINANCIAL OPERATIONS | 11 |
| 6.1 Working Group Financial Operation with Treasury | 11 |
| 6.2 IEEE-SA Working Group Services Fee | 11 |
| 7. SUBGROUPS | 12 |
| 7.1 Task Forces | 13 |
| 7.1.1 Task Force Officers | 13 |
| 7.1.2 Task Force Operation | 13 |
| 7.1.3 Voting at Task Force Meetings | 13 |
| 8. REFERENCES | 13 |

Old 1904.1 OpsMan (entity-based)

7.1.3 Voting at Task Force Meetings

All motions made by a task force shall be reaffirmed by the Working Group Voting members. Technical motions shall be reaffirmed by a supermajority of the Working Group Voting members. Other motions shall be reaffirmed by a majority of the Working Group Voting members.

802.3 OpsMan

3.3 Membership

The TF Chair may choose to establish TF membership rules if the TF Chair believes it is necessary to ensure that the business of the TF moves forward in an orderly basis. In this case the TF shall follow the same membership requirements and the same voting rules as the WG. A TF operates by default without membership rules for voting.

3.4.2 Voting

Any vote can be subjected to ratification at the WG level under WG voting rules (See ref [1], 5.0).

7.1.2 Task Force Operation (old 1904.1 entity-based OpsMan)

Individual task force meetings that are held during a Working Group meeting should be held serially.

- ❑ We now have 3 task forces
 - 1904.2
 - 1904.4 (about to start)
 - Revision and Maintenance TF (semi-hibernating until we start a revision)
- ❑ We currently have only 11 WG voting members.
 - TF and WG have different voting memberships.
 - Attending a stand-alone TF meeting does not count towards the WG membership.
- ❑ During the WG meeting, how do we vote on technical matters?
 - Take each vote twice (TF and WG)
 - Take only WG vote, since it supersedes the TF vote
 - Take TF votes during TF portion of the meeting and reaffirm all TF votes by a single WG motion at the end? What if WG does not reaffirm?

Benefits of having OpsMan

- ❑ Some rules are too WG-specific to be added to official IEEE SA provided template for Policies and Procedures.
- ❑ WG may decide to adjust these specific rules as needed. Does not need to seek approval from the sponsor every time.
- ❑ We already follow many informal rules, but they are not documented.
- ❑ Some current procedures are confusing and would benefit from having clear rules.
- ❑ For maximum efficiency
 - Rules need to be known and followed consistently.
 - Operations Manual is a published collection of such rules
 - Rules need to be useful and reasonable
 - Any member can propose changes to existing rules or addition of new rules. WG discusses and votes.



Election of WG Officers

Officer election procedure

3.1 Initial Appointment and Subsequent Election of Officers

...

1. For the subsequent terms, there shall be elections to elect the Chair, Vice-Chair, Chief Editor, Treasurer, and Secretary.
2. The Working Group Chair shall appoint an Elections Officer whose function is to gather nominations and conduct an election. The Elections Officer shall not be a nominee in the election.
3. Voting members shall nominate to the Elections Officer one or more voting members for the Chair, Vice-Chair, Chief Editor, Treasurer, and Secretary Offices to be filled at the election. Nominees shall be eligible to hold the office for which they are elected. A person shall be nominated for no more than one office.
4. Upon written notification, the nominee shall, within 14 calendar days, indicate acceptance or rejection of the nomination.
5. If no nomination is received or accepted for an office other than the Chair, a temporary appointment shall be made in accordance with Clause 3.2. If no nomination is received or accepted for Chair, the current Sponsor Chair appoints a voting member for the office.
6. The Elections Officer shall prepare and conduct the election by letter or electronic ballot. Voting will conclude in a time determined by the Sponsor, but no less than 14 calendar days.
7. Each voting member may cast one approval vote for each of as many nominees for an office as the voting member chooses. The nominee with the greatest number of approval votes shall win the election, provided ballots are returned by a majority of the eligible voters for that election.
8. The term of office for each officer shall be two years, but an officer may serve until a successor is appointed.

3 Officers

This clause shall not be modified except to include additional officers.

- ❑ There shall be a Chair and a Secretary, and there should be a Vice-Chair. The office of Treasurer is suggested if significant funds are involved in the operation of the Working Group and/or its subgroups or if the group has multiple financial reports to supply to the IEEE-SA. A person may simultaneously hold the positions of Treasurer and another office, other than Chair.
- ❑ The officers (and any person designated to manage the Sponsor ballot) shall each be IEEE members of any grade, or IEEE Society affiliates, and also be members of IEEE-SA.

- ❑ Nomination period
 - Per suggestion from the floor, reduce to one week
 - July ~~1-14~~ 1-7
- ❑ Issuing notifications
 - July ~~15-17~~ 8-10
- ❑ Nominee response period
 - July ~~18-31~~ 11-25
- ❑ Voting period
 - ~~August 3-17~~ July 27 – August 10
 - When all voting members voted, voting period ends.

2020 Meeting Calendar



| January | | | | | | |
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| February | | | | | | |
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| March | | | | | | |
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| September | | | | | | |
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| October | | | | | | |
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| November | | | | | | |
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| December | | | | | | |
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| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

| ANWG window | IEEE 802.3 | BBF | CableLabs | IETF | ITU-T Q2/15 | Conferences |
|-------------|------------|------------|-------------------|------|-------------|------------------------|
| 2/19-2/20 | 2/25 | 3/2-3/5 | ?? – Winter Conf. | | 3/3, 3/24 | 3/8-3/12 - OFC |
| 3/31-4/2 | 3/16-3/20 | 6/15-6/18 | ?? – Summer Conf. | | 4/21-4/23 | 4/18-4/22 – NAB Show |
| 6/23-6/25 | 5/18-5/22 | 8/31-9/3 | | | 5/12 | |
| 8/25-8/27 | 7/13-7/16 | 12/7-12/10 | | | 6/9 | 9/21-9/23 - ECOC |
| 10/20-10/22 | 9/21-9/25 | | | | 7/7-7/9 | 10/13-10/16- SCTE Expo |
| 12/15-12/17 | 11/9-11/12 | | | | 8/4 | |

| Holidays | |
|----------|--|
| China | 2/1-2/10, |
| Israel | |
| Japan | |
| US | 2/17, 4/10, 5/25, 7/3, 9/7, 11/26-11/27, 12/24-12/31 |

❑ March 25

- Teleconference
- 4-7 PM Pacific

❑ June 24-25

- Teleconference
- 2 sessions
- 4-6 PM Pacific

❑ August 26-27

- Teleconference
- 2 sessions
- 4-6 PM Pacific

❑ October

- TBD

❑ December

- TBD

- ❑ Accept contribution tf2_2006_kramer_2.pdf to be included as a subclause 7.2.n and increment existing clause 7 and higher.
 - Moved: Glen Kramer
 - Second: Pradeep Kondamuri
 - Technical $\geq 75\%$
 - Y:3 N:0 A:0
 - Motion passes*
- ❑ *WG doesn't have a quorum. Motion is subject to WG reaffirmation

- ❑ Produce draft D0.8 by incorporating Motion #6 into draft D0.7.
 - Moved: Zhou Zhen
 - Seconded: Pradeep Kondamuri
 - Technical $\geq 75\%$
 - Y:4 N:0 A:0
 - Motion Passed*
- ❑ *WG doesn't have a quorum. Motion is subject to WG reaffirmation

□ Move to Adjourn

- M: Kevin Noll
- S: Bill Powell
- Passed by voice vote without opposition.



Thank You