



# **IEEE 1904 Access Networks Working Group**

## **Opening report**

Glen Kramer, [glen.kramer@ieee.org](mailto: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  
[https://www.ieee1904.org/meeting\\_archive/2024/04/anwg\\_2404\\_exec\\_report.pdf](https://www.ieee1904.org/meeting_archive/2024/04/anwg_2404_exec_report.pdf)
  
- ❑ Membership Updates
- ❑ Establishment of Quorum

## Motion #1

□ **Approve the agenda for the August 2024 meeting presented in `anwg_2408_agenda_1.pdf`.**

– Moved:

– Second:

– (Procedural, required  $> 50\%$ )

Motion passed by voice vote 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.

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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](mailto:patcom@ieee.org)**

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# 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>

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# 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

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## 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](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>

## Motion #2

- ❑ Approve minutes of April 2024 WG meeting as recorded in **anwg\_2406\_minutes\_unapproved.pdf**.
- ❑ Post the approved minutes on the WG website as **anwg\_2406\_minutes\_approved.pdf**

– Moved:

– Seconded:

(Procedural, required > 50%)

Motion passed by voice vote without opposition



- ❑ Posted at [https://www.ieee1904.org/meeting\\_archive/2024/04/anwg\\_2404\\_treasurer\\_report.pdf](https://www.ieee1904.org/meeting_archive/2024/04/anwg_2404_treasurer_report.pdf)
- ❑ Presented at the last meeting of a calendar year

- ❑ **WG Vice Chair vacancy**
- ❑ **Pending actions**
  - Update operations manual

# WG ballot results



	<b>Initial Ballot (D2.0)</b>	<b>1<sup>st</sup> Recirc (D2.1)</b>	<b>2<sup>nd</sup> Recirc (D.2.2)</b>	<b>3<sup>rd</sup> Recirc (D.2.3)</b>		
<b>Total Voters</b>	7	7				
<b>Approved</b>	3	6				
<b>Disapproved (with comments)</b>	2	1				
<b>Disapproved (without comments)</b>	0	0				
<b>Abstained</b>	0	0				
<b>Total Returns</b>	5	7				
<b>Response Ratio (Req. &gt; 50%)</b>	<b>71.4%</b>	<b>100%</b>				
<b>Abstention Ratio (Req. &lt; 30%)</b>	<b>0%</b>	<b>0%</b>				
<b>Approval Ratio (Req. ≥ 2/3)</b>	<b>60%</b>	<b>85.7%</b>				

# Comments received



Comment type	D2.0	D2.1	D2.3			
E	11	3				
ER	1	0				
T	5	5				
TR	8	3				
<b>Total</b>	<b>25</b>	<b>11</b>				

- ❑ 1904.4 PAR expires December 31, 2024
  
- ❑ PAR extension request needs to be submitted to NesCom
  
- ❑ NesCom submission deadlines:
  - 16 August 2024 (for September 2024 mtg)
  - 18 September 2024 (for October 2024 mtg)
  - 21 October 2024 (for December 2024 mtg)

# PAR Extension Request



**1. Number of Years that the Extension is being requested:**

1

**2. Why an Extension is required (include actions to complete):**

The PAR is currently undergoing the Working Group ballot phase. An extension is required in order to complete the SA ballot.

**3.1. What date did/will you begin writing the first draft:**

21 Dec 2020

**3.2. How many people are actively working on the Project:**

7

**3.3. How many times a year does the Working Group meet:**

**In Person:**

0

**Via Teleconference:**

6

**3.4. How many times a year is a Draft circulated to the Working Group:**

6

**3.5. What percentage of the Draft is stable:**

80%

**3.6. How many significant work revisions has the Draft been through:**

20

**4. When will/did initial Standards Association Ballot begin:**

Jan 2025

**When do you expect to submit the proposed Standard to RevCom:**

Jul 2025

**Has this document already been adopted by another source? (if so, please identify):**

No

- Move to approve in principle the request for extension of the P1904.4 PAR till Dec 31 2026 and to delegate to the Working Group Chair Glen Kramer to change the PAR submission and expiration dates based on the WG consensus.
  - **Mover:** Glen Kramer
  - **Second:** Nirmala Shenoy
  
  - Passed by voice vote without opposition

The Working Group approves extending the P1904.4 PAR by one year and instructs the chair to seek the necessary approvals from the Access/Core-SC (the Sponsor) and from IEEE SA NesCom.

The WG chair is authorized to make and/or approve necessary adjustments to the PAR extension request, as may be requested by the Sponsor or the NesCom members.

- Moved:
- Second:
- (Requires 2/3 approvals)

Motion passed by voice vote without opposition



- ❑ P1904.1-Conformance01-2014
- ❑ P1904.1-Conformance02-2014
- ❑ P1904.1-Conformance03-2014

- ❑ **Should we start revision of these standards or let them expire and be withdrawn?**
- ❑ Who will participate in the revision work?
- ❑ If we start revision, we can approve the drafts as is and kick them to SA ballot.

## Revising a Standard

An IEEE standard is active for a period of ten (10) years from the IEEE SA Standards Board approval year.

Within the ten year period, Standards Committees can take the following actions:

- Revise the standard by opening the entire document for updates, changes, or additions
- Submit Amendments for additional material to the standard
- Submit Corrigenda for corrections to the standard that does not introduce new material
- **Withdraw** the standard from active to inactive-withdrawn status through an SA Ballot

If a standard has not been revised before the end of the ten (10) year maintenance cycle, it may be administratively withdrawn by the IEEE SASB.

## IEEE SA Standards Board Operations Manual:

### 9.2 Removal from active status

Standards that are no longer useful or contain significant obsolete or erroneous information should be recommended for withdrawal from active status by the Standards Committee. A recommendation for withdrawal from active status shall be supported by a Standards Association ballot (see 5.4) with a 50% return and at least a 75% approval.

Every IEEE Standard shall be considered for transfer to inactive status by the IEEE-SA Standards Board at the beginning of the next calendar year after it is ten years past its approval date (i.e., the standard will be labeled *Inactive* and reserved for historical reference).

A standard remains active until it is officially transferred to inactive status by the IEEE-SA Standards Board. When a standard is transferred to inactive status, its amendments and corrigenda are also transferred to inactive status.

The Working Group approves initiating revision projects covering the following standards:

- P1904.1-Conformance01-2014
- P1904.1-Conformance02-2014
- P1904.1-Conformance03-2014

and instructs the chair to seek the necessary approvals from the Access/Core-SC (the Sponsor) and from IEEE SA NesCom.

- Moved:
- Second:
- (Requires 2/3 approvals)

Motion passed by voice vote without opposition

The Working Group approves the withdrawal of the following standards:

- P1904.1-Conformance01-2014
- P1904.1-Conformance02-2014
- P1904.1-Conformance03-2014

- Moved:
- Second:
- (Requires 2/3 approvals)

Motion passed by voice vote without opposition

# IEEE 1904 Webex account



- ❑ This account is only for IEEE 1904 standards development meetings
- ❑ May schedule a future meeting or start an instant meeting
- ❑ Anyone may use it, but need to coordinate, as we are allowed only one meeting at a time.

## IEEE 1904 Access Networks Working Group

### Webex Online Meeting

To schedule a meeting, log in to <https://ieeesa.webex.com> using

- **Username:** p1904@ieee.org
- **Password:** <the same password you used to get to this page>

**Note:**

- I. Only the meeting host needs to log in to this Webex account. Viewers/participants do not need to login.
- II. Only one meeting can be held at any time. When you schedule a call, please announce it on the [working group reflector](#), so that other subgroups don't schedule it for the same time.

### Instant meeting

- **URL:** <https://ieeesa.webex.com/meet/IEEE1904>
- **Pin:** <...>

**Note:**

- I. This is a permanent meeting room account. No Webex reservation is necessary.
- II. The host needs to login and start the meeting.

### Help Topics

- [How to join a Webex meeting](#)
- [Get Started with Cisco Webex Meetings for Hosts](#)
- [Get Started with Cisco Webex Meetings for Attendees](#)
  
- [Webex Training](#)
- [Webex Support](#)

For additional help topics, visit [Webex Help Center](#)

**Note:**

- I. In compliance with the IEEE SA policy, meeting recording function has been disabled.

# 1904 Working Group Website



- ❑ 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.
    - TF4: [http://www.ieee1904.org/private/4/tf4\\_presentproc.shtml](http://www.ieee1904.org/private/4/tf4_presentproc.shtml)
    - RMTF: [http://www.ieee1904.org/private/revision/rmtf\\_maint\\_request.shtml](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](http://www.ieee1904.org/wg_pub_archive.shtml)
- Subscription instructions: [http://www.ieee1904.org/wg\\_reflector.shtml](http://www.ieee1904.org/wg_reflector.shtml)

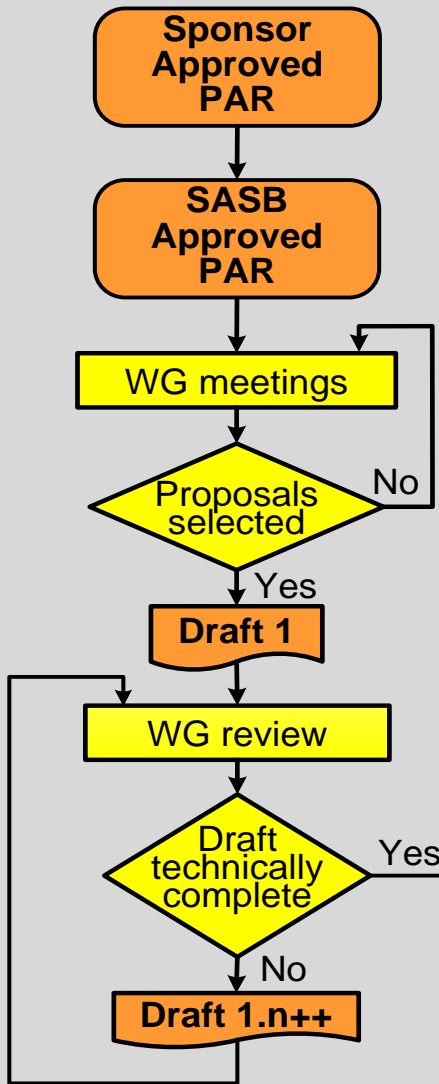
## ❑ 1904.4 TF Reflector

- Used for 1904.4 *TF discussions*
- Archive is public: <http://www.ieee1904.org/4/email/index.html>
- Subscription instructions: [http://www.ieee1904.org/4/tf4\\_reflector.shtml](http://www.ieee1904.org/4/tf4_reflector.shtml)

## ❑ RMTF Reflector

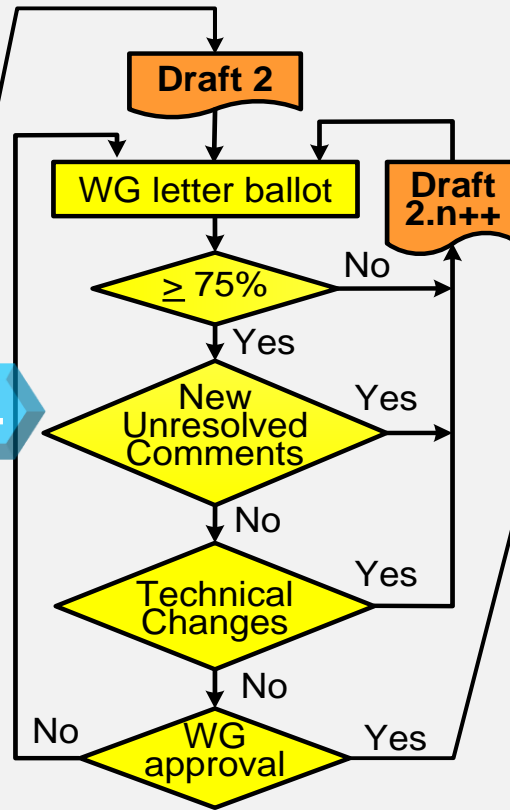
- Used for Revision & Maintenance technical discussions
- Archive is public: <http://www.ieee1904.org/3/email/index.html>
- Subscription instructions: [http://www.ieee1904.org/revision/rmtf\\_reflector.shtml](http://www.ieee1904.org/revision/rmtf_reflector.shtml)

# Current Project(s) Status

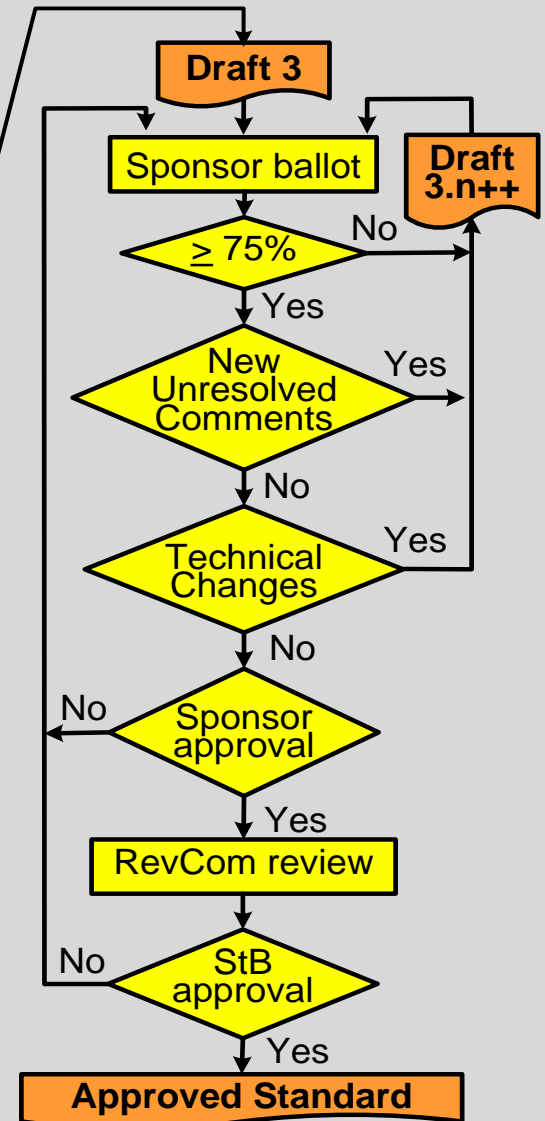


Working Group Review

1904.4



Working Group Ballot



Sponsor Ballot 32





**Thank You**