IEEE 802.3 Ethernet for Automotive Imaging Sensors (ISAAC) Study Group Agenda and General Information

Jon Lewis
Dell Technologies
14 September 2023

Agenda

- Approve Agenda
- Approve Minutes from 28 August 2023
- Goals for this meeting
- Big Ticket Items
- Reflector and Web
- Ground Rules
- IEEE
 - Structure, Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- Liaisons and Communications
- Presentations (2 late)
- Future Meetings

Study Group Decorum



- An officer is permitted to make an audio or slideshow recording of this meeting exclusively for the
 purpose of generating minutes which shall not be copied or distributed. IEEE 802.3 meetings do not
 use this option. Recording of the proceedings by any other participant or observer, in part or in whole,
 via any means, is prohibited. (January 2020 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (January 2020 IEEE-SA Standards Board Ops Manual 5.3.3.3)
- Cell phone ringers off
- Please observe proper decorum in meetings
- Please Mute yourself when not speaking
- Please turn your video off

Goals for the meeting

- Review potential text for PAR, CSD and Objectives
- Presentations to progress SG
- Set future teleconference meeting dates

Big ticket items

N/A

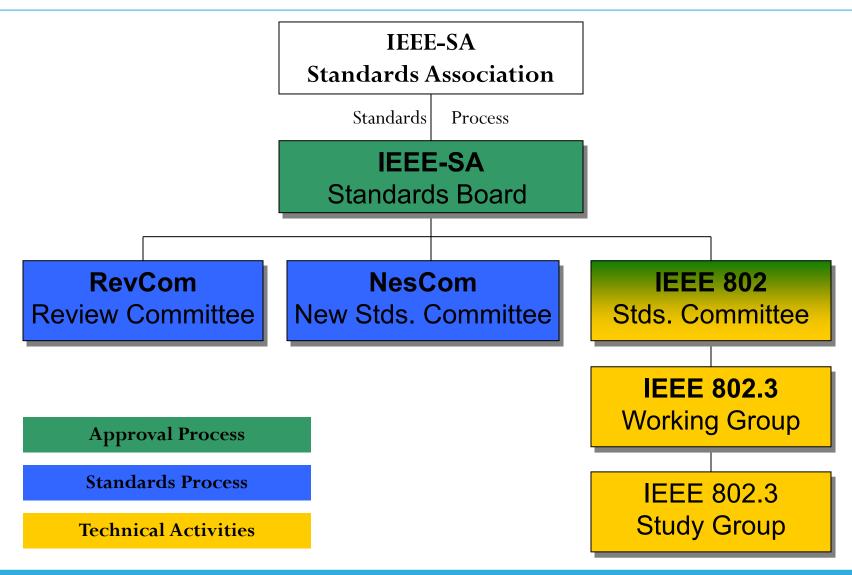
ISAAC Study Group General Information

- Task Force Organization
 - Jon Lewis, Chair
 - George Zimmerman, Recording Secretary
- Project Documentation
 - PAR:
 - CSD:
 - Objectives:
- Web and Reflector Information
 - Webpage: https://www.ieee802.org/3/ISAAC/index.html
 - Reflector: <u>stds-802-3-ISAAC-request@listserv.ieee.org</u>
 - 802.3 Calendar: https://www.ieee802.org/3/calendar.html

Ground Rules

- Based upon IEEE 802.3 Rules
 - Foundation based upon Robert's Rules of Order
 - Anyone in the room may speak
 - 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

IEEE Structure



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
 https://ieee.app.box.com/v/PandP-LMSC
- 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

GUIDELINES FOR IEEE SA 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. Formally object to the discussion immediately.

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

If you have questions, contact the IEEE SA Standards Board Patent Committee Administrator at patcom@ieee.org





INSTRUCTIONS FOR CHAIRS OF STANDARDS DEVELOPMENT ACTIVITIES

At the beginning of each standards development meeting the chair or a designee is to:

- Show the following slides (or provide them beforehand)
- Advise the standards development group participants that:
- IEEE SA's copyright policy is described in Clause 7 of the IEEE SA Standards Board Bylaws and Clause 6.1 of the IEEE SA Standards Board Operations Manual;
- Any material submitted during standards development, whether verbal, recorded, or in written form, is a Contribution and shall comply with the IEEE SA Copyright Policy;
- Instruct the Secretary to record in the minutes of the relevant meeting:
- That the foregoing information was provided and that the copyright slides were shown (or provided beforehand).





IEEE SA COPYRIGHT POLICY

By participating in this activity, you agree to comply with the IEEE Code of Ethics, all applicable laws, and all IEEE policies and procedures including, but not limited to, the IEEE SA Copyright Policy.

- Previously Published material (copyright assertion indicated) shall not be presented/submitted to the Working Group nor incorporated into a Working Group draft unless permission is granted.
- Prior to presentation or submission, you shall notify the Working Group Chair of previously Published material and should assist the Chair in obtaining copyright permission acceptable to IEEE SA.
- For material that is not previously Published, IEEE is automatically granted a license to use any material that is presented or submitted.





IEEE SA COPYRIGHT POLICY

- The IEEE SA Copyright Policy is described in the IEEE SA Standards Board Bylaws and IEEE SA Standards Board Operations Manual
 - IEEE SA Copyright Policy, see Clause 7 of the IEEE SA Standards Board Bylaws https://standards.ieee.org/about/policies/bylaws/sect6-7.html#7 Clause 6.1 of the IEEE SA Standards Board Operations Manual https://standards.ieee.org/about/policies/opman/sect6.html
- IEEE SA Copyright Permission
 - https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/permissionltrs.zip
- IEEE SA Copyright FAQs
 - http://standards.ieee.org/faqs/copyrights
- IEEE SA Best Practices for IEEE Standards Development
 - http://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/best_practices_for_ieee_standards_development_051215.pdf
- Distribution of Draft Standards (see 6.1.3 of the SASB Operations Manual)
 - https://standards.ieee.org/about/policies/opman/sect6.html





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 <u>IEEE-SA Standards Board Bylaws</u> 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

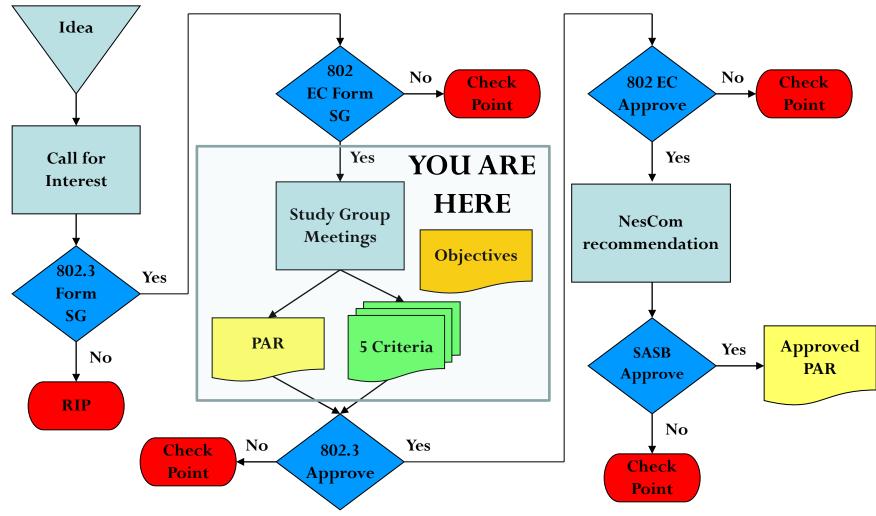
- The <u>IEEE-SA Standards Board Bylaws</u> (clause 5.2.1.3) specifies that "the standards development process shall not be dominated by any single interest category, individual, or organization"
 - This means no participant may exercise "authority, leadership, or influence by reason of superior leverage, 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

Attendance

- IMAT will be used for attendance at this meeting.
- https://imat.ieee.org/
- Session Code: ******

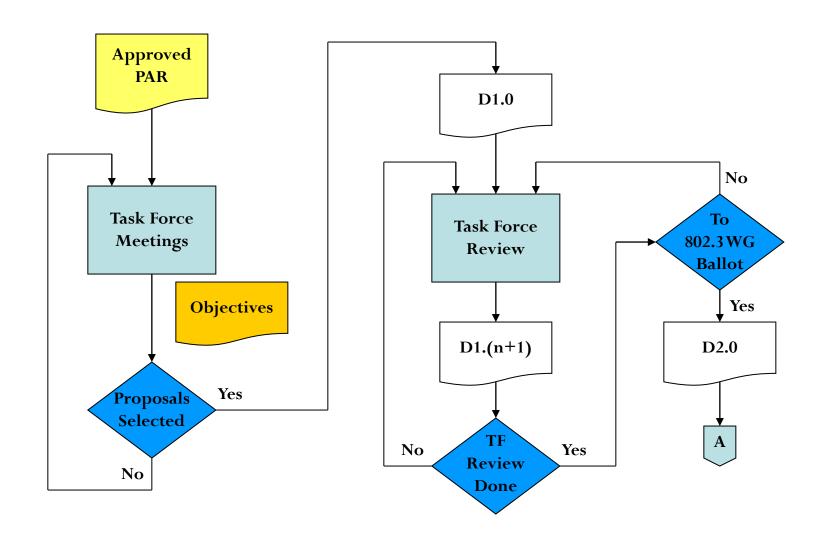
- Please make sure you affiliation/employer are correct
 - https://www.ieee802.org/3/minutes/sep23/0923_imat.pdf(pages 24/25)

Overview of IEEE 802.3 Standards Process (1/5)-Study Group Phase

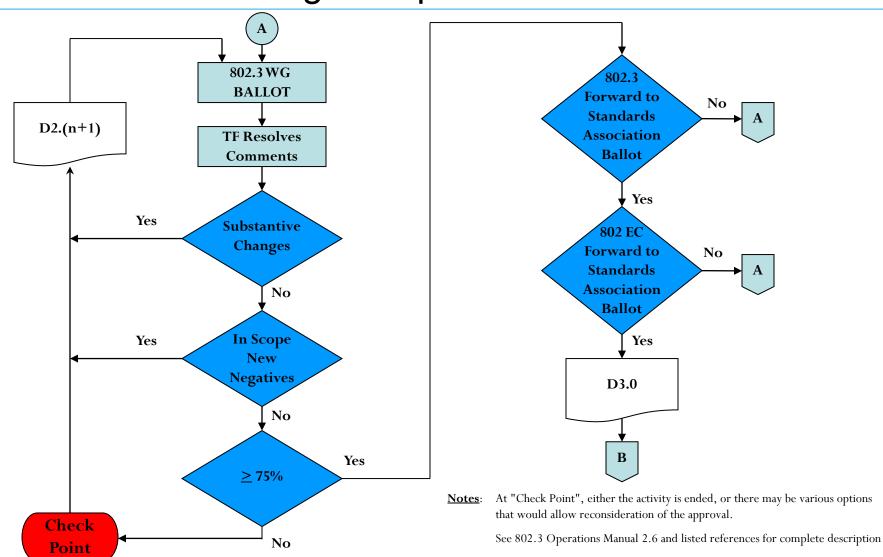


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

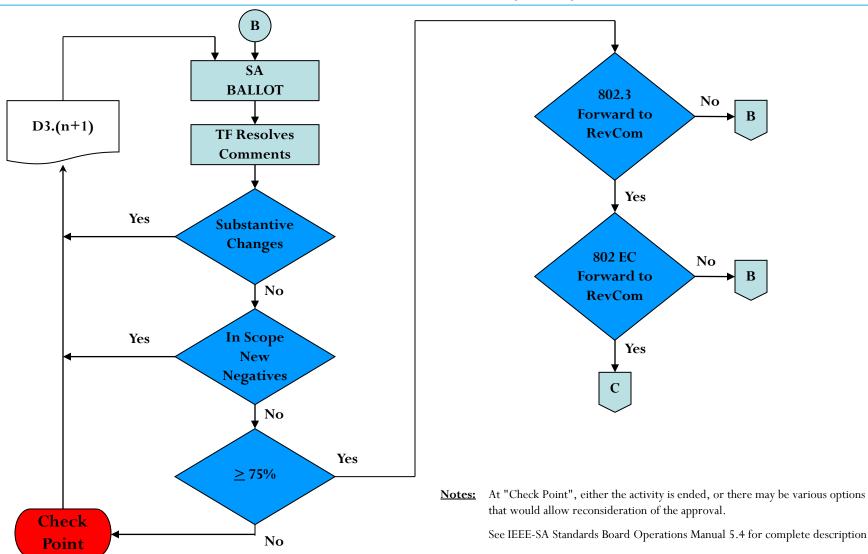
Overview of IEEE 802.3 Standards Process (2/5) – Task Force Comment Phase



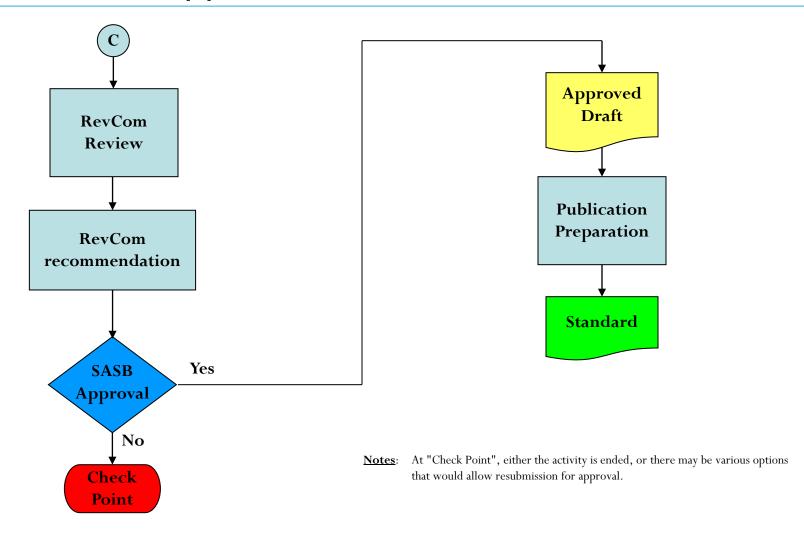
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase



Overview of IEEE 802.3 Standards Process (4/5)-IEEE Standards Association (SA) Ballot Phase



Overview of IEEE 802.3 Standards Process (5/5) – Final Approvals / Standard Release



Liaisons

None

Presentation Procedures

- All Presenters will have 30 minutes for the presentation and Q&A.
 - Each presentation question/answer will have a maximum of 3 minutes. Upon expiration you may get back into the queue.
 - Once the 30 minutes expires, we will move on to the next presentation regardless of the queue.
 - Additional questions and consensus can be completed using the reflector.

Presentations

Presentation Title	Presenter(s)	Duration	Start	End
Agenda, Introduction and Front Matter	Jon Lewis	0:20	8:00	8:20
Unifying Automotive Zonal E/E Architectures	Christoph Arndt	0:30	8:20	8:50
Feasibility of Evolution from Domain to Zonal Architecture	Ragnar Jonsson	0:30	8:50	9:20
Automotive camera side PHY requirements study from CMOS Image Sensor				
(CIS) perspective	Mario Heid	0:30	9:20	9:50
Asymmetric Physical Layer A Feasibility Overview	Hossein Sedarat	0:30	9:50	10:20
Morning Break		0:30	10:30	11:00
Addressing some "Good Questions for ISAAC Study Group	Debajyoti ("Debu") Pal	0:30	11:00	11:30
PHY Technical Options	William Lo	0:30	11:30	12:00
Interrelation between an Asymmetric Camera Link and IEEE 802.1(DG)	Kirsten Matheus	0:30	12:00	12:30
Lunch		1:20	12:50	14:10
General Feasibility of Key Goals	Ragnar Jonsson	0:30	14:10	14:40
Line Side Duplexing Options for ISAAC	Tazebay/Chini	0:30	14:40	15:10
Comments on PAR and Objectives for ISAAC	Tazebay/Chini/Dalmia	0:30	15:10	15:40
CSD Requirements – Distinct Identity, Technical and Economic Feasibility	Kamal Dalmia	0:30	15:40	16:10
Afternoon Break		0:30	16:10	16:40
Suggested PAR and CSD item wording	George Zimmerman	0:30	16:40	17:10
Late Presentations (Time Permitting – Study Group to decide to view)				
Sensor / ECU end-to-end Communication Required Features	Mena Nagiub	SG to decide / time permitting		
Camera and Sensors Protocols in Automotive IVN	Ariel Lasry	SG to decide / time permitting		

All times are approximate, breaks will be taken exactly on time.

Future Meetings

- Pre-circulation of PAR and CSD no later than October 12, 2023!
- Available dates:
 - September 20, 27
 - October 4