Agenda and General Information

IEEE P802.3cy Greater than 10 Gb/s Electrical Automotive Ethernet PHYs Task Force

Steve Carlson, Chair
High Speed Design, Inc., Robert Bosch, Ethernovia
Natalie Wienckowski, Vice Chair, General Motors
June 30, 2022, interim teleconference 15h00-18h00 UTC

Agenda

- Jon Lewis, Task Force Recording Secretary for 30 June
- Welcome
- Approve Agenda
- Goals for this meeting
- Task Force Organization
- Reflector and Web
- Ground Rules
- IEEE
 - Structure, Bylaws and Rules
 - Call for Patents
 - IEEE Standards Process
- Virtual Meetings and Future Meetings
- Thursday, June 30 Comment resolution D1.3, charter D2.0
- Prepare for July plenary
- Motions and Closing Business (future meetings and PSA)

Task Force Decorum



- Please MUTE if you are not speaking
- 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)
- Please observe proper decorum in meetings

Task Force Organization

Task Force Organization

- Steve Carlson, Chair
- Natalie Wienckowski, Vice-Chair and Ad hoc Chair
- Marek Hajduczenia, Chief Editor
- Jon Lewis, Recording Secretary

Goals for the meeting

- Review IEEE Patent, Copyright, and Individual Participation policies
- Review IEEE 802.3 Task Force operation
- Virtual Meetings
- Comment resolution D1.3
- Charter D2.0 for WG ballot
- Preview of July plenary

Version 3.8

Reflector and Web

 To subscribe to the IEEE P802.3cy Beyond 10 Gb/s Electrical Automotive Ethernet PHYs Task Force reflector, send an email to:

ListServ@ieee.org

with the following in the body of the message (do not include "<>"):

subscribe stds-802-3-B10GAUTO
**yourfirstname>
**yourfastname>

end

Send B10GAUTO reflector messages to:

stds-802-3-B10GAUTO@listserv.ieee.org

Task Force web page URL:

http://ieee802.org/3/cy/index.html

Task Force Private Area

URL: https://ieee802.org/3/cy/private/index.html

Username: 802.3cy

Password: *********

Write it down...

 Note - The draft, and any other content, is posted for your review only, and neither the content nor access information should be copied or redistributed to others in violation of document copyrights.

Ground Rules

- Based upon IEEE 802.3 Rules
 - Foundation based upon Robert's Rules of Order
 - Anyone in the virtual room may speak
 - Anyone in the virtual room may participate in straw polls
 - Only 802.3 voters may vote on teleconference calls
- **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

Attendance

- Tutorial Material on attendance tool
 - http://ieee802.org/3/minutes/attendance_procedures.pdf
- Access details
 - URL: http://imat.ieee.org/
 - Session code: 4sPX4z
 - Zoom rename please make sure your Zoom name has your first and last names, employer and affiliation(s). See Renaming instructions for Zoom teleconferences

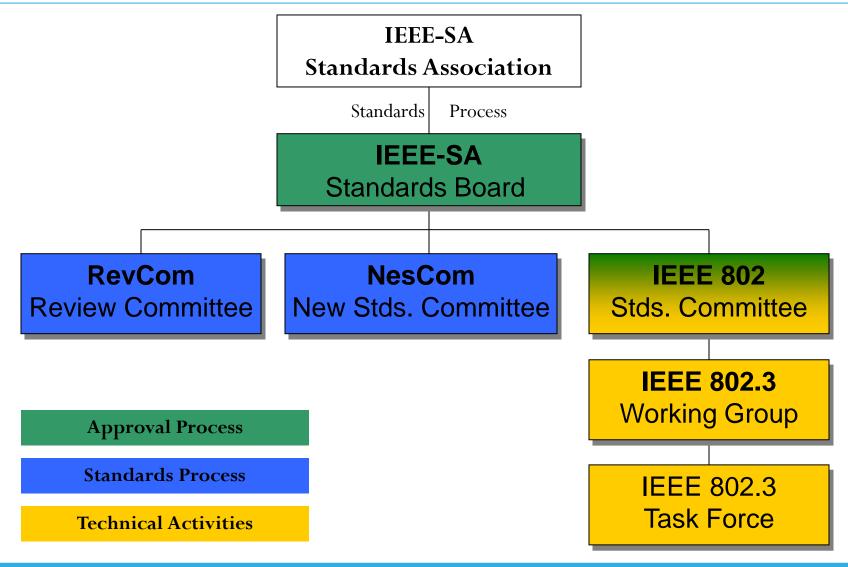
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Direct Vote Live

- DirectVoteLive
- https://vote.directvotelive.net/login.aspx?o=223
- If you have issues, please email Jodi Haasz <j.haasz@ieee.org>

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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

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

- Participants <u>shall</u> 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 <u>should</u> 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 WORKING GROUP 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





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





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/ieeestandards/standards/web/documents/other/permissionltrs.zip
- IEEE SA Copyright FAQs
 - http://standards.ieee.org/faqs/copyrights.html/
- IEEE SA Best Practices for IEEE Standards Development
 - http://standards.ieee.org/develop/policies/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

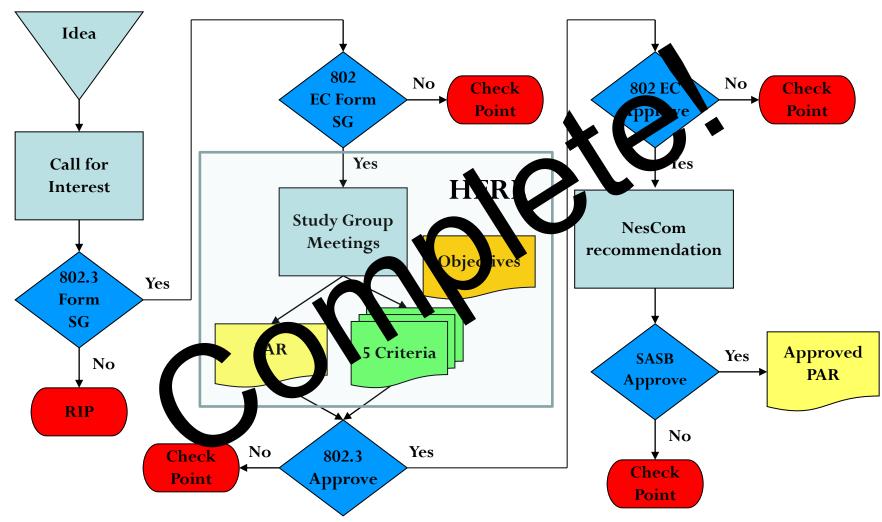
Participants in the IEEE-SA "individual process" shall act independently of others, including employers

- 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

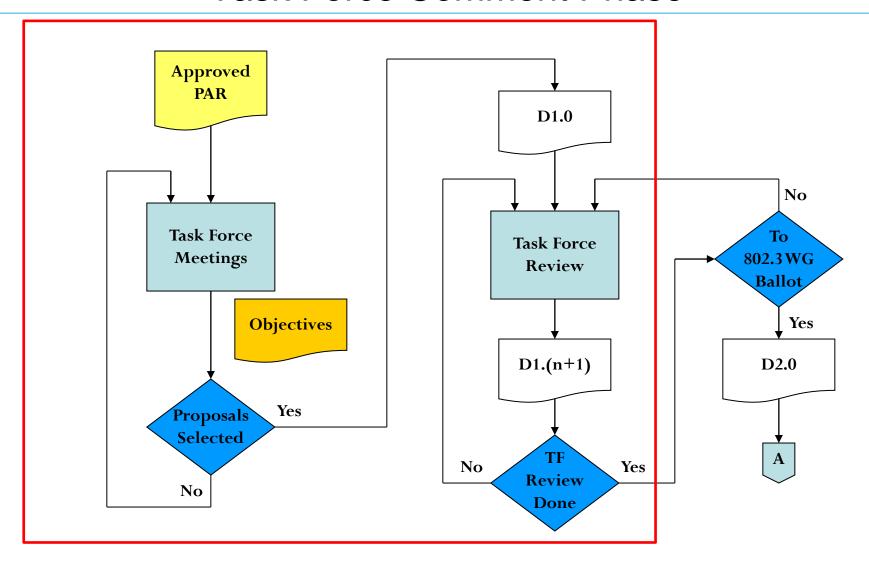
- The <u>IEEE-SA Standards Board Bylaws</u> (clause 5.2.1.3) specifies that "the standards development process shall not be dominated by any single interest category, individual, or organization"
 - This means no participant may exercise "authority, leadership, or influence by reason of superior leverage,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

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

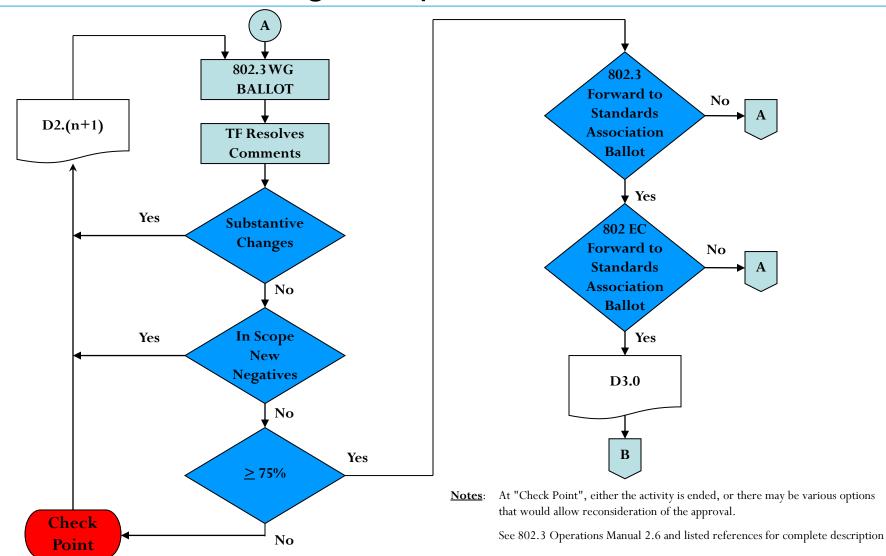


Note: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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

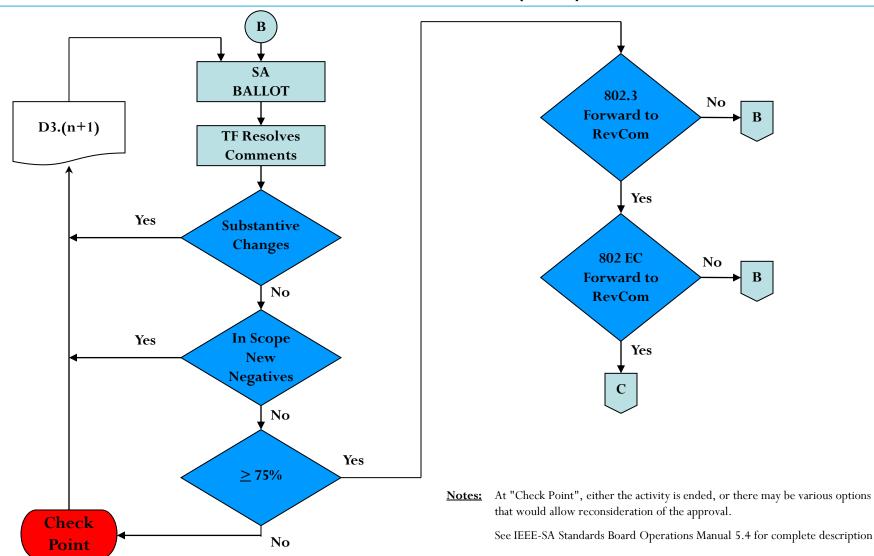


Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase

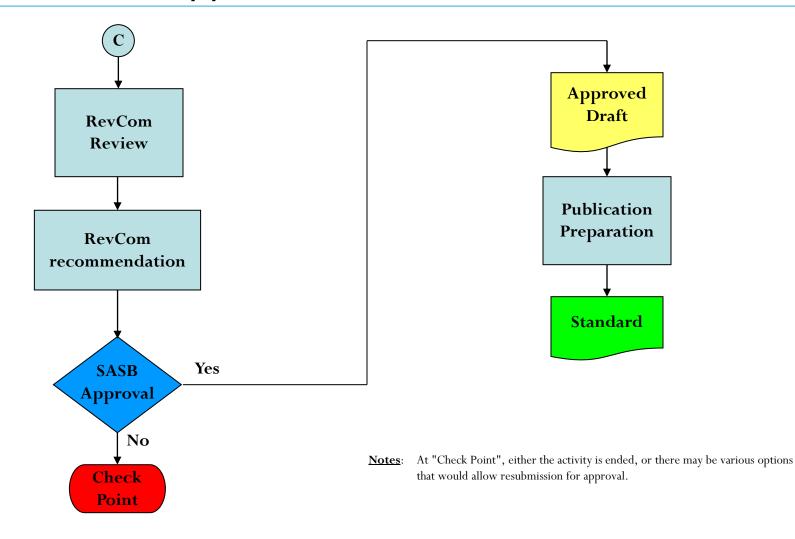


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Overview of IEEE 802.3 Standards Process (4/5)-IEEE Standards Association (SA) Ballot Phase



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



Liaisons and Communications

None at this time

Action Items

- To Do List: https://ieee802.org/3/cy/todo/index.html
- P802.3cy Ad Hoc Meetings Update (post-July)
- Create D2.0
- Plan for WG ballot out of July

IEEE P802.3cy Beyond 10 Gb/s Electrical Automotive Ethernet PHYs Approved Project Documents

PAR

- http://grouper.ieee.org/groups/802/3/cy/P802d3cy_PAR.pdf
- 5 Criteria
- https://mentor.ieee.org/802-ec/dcn/20/ec-20-0094-00-ACSDp802-3cy.pdf
- Objectives
- http://grouper.ieee.org/groups/802/3/cy/P802d3cy_OBJ_WG_0 520.pdf

TF Approved Objectives P802.3cy

Preserve the IEEE 802.3/Ethernet frame format at the MAC client service interface

Preserve minimum and maximum frame size of the current IEEE 802.3 standard

Support full duplex operation only

Define optional startup procedure which enables the time from power_on=FALSE to a state capable of transmitting and receiving valid data to be less than 100ms

Support a BER better than or equal to 10⁻¹² at the MAC/PLS service interface (or the frame loss ratio equivalent)

Support a data rate of 25 Gb/s, 50 Gb/s and 100 Gb/s at the MAC/PLS service interface

Support optional Auto-Negotiation

Support optional Energy Efficient Ethernet optimized for automotive applications

Support operation in automotive environments (e.g., EMC, temperature)

Do not preclude meeting FCC and CISPR EMC requirements

Approved Objectives P802.3cy

Define the performance characteristics of an automotive link segment and an electrical PHY to support 25 Gb/s point-to-point operation over this link segment supporting up to 2 inline connectors for at least 11 m on at least one type of automotive cabling

Define the performance characteristics of an automotive link segment and an electrical PHY to support 50 Gb/s point-to-point operation over this link segment supporting up to 2 inline connectors for at least 11 m on at least one type of automotive cabling

Define the performance characteristics of an automotive link segment and an electrical PHY to support 100 Gb/s point-to-point operation over this link segment supporting up to 2 inline connectors for at least 11 m on at least one type of automotive cabling

Support optional Clause 104 power over data lines on appropriate media

As revised June 7, 2022: Motion #2: Move to approve the updated objectives as shown on slides 2 and 3 of https://ieee802.org/3/cy/public/may22/wienckowski 3cy 02 05 24 22.pdf.

M: Ragnar Jonsson S: Sujan Pandey

Motion Passed by unanimous consent (Technical > 75%)

Task Force Virtual Meetings

- For the foreseeable future, P802.3cy meetings will be virtual 2-hour teleconferences (15h00-17h00 UTC)
- There is contention for timeslots with other IEEE 802.3 groups
- It's not clear when in-person IEEE 802.3 meetings will resume
- It's not clear how future virtual IEEE 802 plenaries will be structured
- For IEEE 802.3, our current rules allow interim telecon meetings with 10day advance notice
 - Decisions (votes) may be taken
 - Only IEEE 802.3 voting members may vote
 - There is considerable overhead for a virtual interim
 - Interims can't be cancelled

Task Force Virtual Meetings

- Teleconference ad hoc meetings have been used for many years in IEEE 802.3 to build consensus
 - We are working out how to move the project along with a combination of ad hocs and interims
 - The current concept will schedule ad hocs on a weekly basis
 - Presentations will be to build consensus and further discussion (use the email reflector!)
 - If your presentation will lead to a baseline proposal, let us know what it might be in the slides
 - This prepares the groundwork for a vote at an interim or plenary telecon
 - No votes taken on ad hoc calls
 - Ad hocs may be canceled without penalty

Task Force Virtual Meetings

- The current plan will schedule interims on a 4-week or greater schedule
 - Interims and plenaries will be used to vote on baselines
 - No votes will be allowed unless the baseline motion has been previewed at least two weeks prior to the interim/plenary meeting
- We'll see how this works and make changes as we gain experience

P802.3cy Meetings

- See: http://www.ieee802.org/3/interims/index.html
- IEEE 802.3 meetings calendar: http://www.ieee802.org/3/calendar.html
- Interims
 - June 7
 - June 14
 - June 21
 - June 30

Presentations – June 30

Presentations		
Comment resolution D1.3	Marek Hajduczenia	Charter
Presentations in support of comments		
To Do List		

Motion

Motion #1: Move to accept all proposed "bucket" resolutions (except comment #333)

in https://ieee802.org/3/cy/comments/802d3cy_D1_3_proposed.pdf on P802.3cy D1.3.

M: Natalie Wienckowski

S: Marek Hajduczenia

Technical >= 75%

Motion Passes by unanimous consent

Motion

Motion #2: Move to instruct the Editor to create D2.0 for Working Group ballot from D1.3 and closed comments, with editorial license to implement.

M: Natalie Wienckowski

S: Marek Hajduczenia

Technical >= 75%

Passes by unanimous consent

Motion

Motion #3: Move to request the IEEE 802.3 Working Group advance the D2.0 draft to working group ballot.

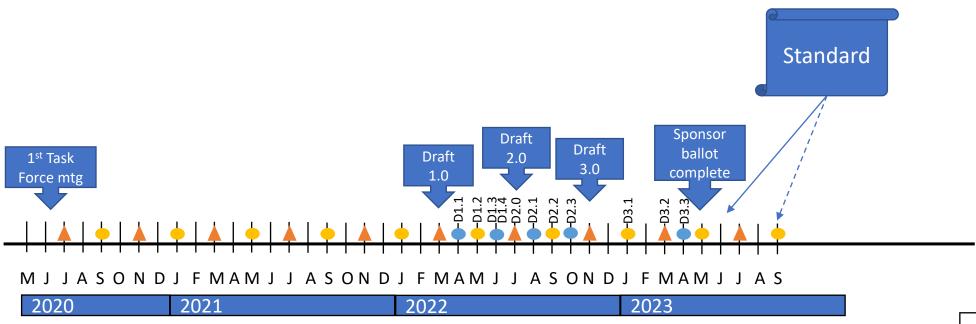
M: Marek Hajduczenia

S: Haysam Kadry

Technical >= 75%

Passes by unanimous consent

P802.3cy Task Force Adopted Timeline



- ▲ 802 Plenary
- 802.3 Interim
- 802.3cy Interim

Timeline to WG ballot - July

- June 30 Thursday (last meeting before the July plenary)
 - Comment resolution to D1.3 and charter D2.0
 - D2.0 is the WG preview draft
 - Preview of July plenary
- July 11 10AM-noon EDT WG opening
 - Opening P802.3cy report
- July 11 P802.3cy plenary meeting
 - 1PM-5PM EDT
 - Prepare for WG ballot
- July 14 WG 1PM 5PM EDT closing
 - WG vote on objective changes
 - WG vote on request to advance D2.0 to WG ballot

Motions and Straw Polls

See

https://grouper.ieee.org/groups/802/3/cy/public/jun22/motions_3cy_0622.pdf for final motions and straw polls.

Non-payment of plenary registration fees

Every attendee at any IEEE 802 virtual plenary meeting must register and pay a fee to participate.

If the individual is in arrears:

[1] The individual is not permitted to register for any future IEEE 802 Plenary or IEEE 802 Subgroup Interim (if registration is required).

[2] As a result of [1], the individual is not permitted to attend any portion of a technical meeting that is part of an IEEE 802 plenary session. They are also not permitted to attend any portion of a technical meeting that is part of an IEEE 802 Subgroup Interim required registration.

Le Centre Sheraton Montreal

1201 René-Lévesque Blvd W, Montreal, Quebec H3B 2L7 Canada

- Session Registration is Available Now
- IEEE 802.3 Monday, July 11 through Thursday, July 14
- In-Person and Virtual participation will be available for this session.
- Registration Fees and Deadlines
- Standard \$US700.00 until June 24, 2022
- Late/Onsite \$US900.00 after June 24, 2022

- Registration Fees Terms
- Registration Fees are required for all individuals who participate in session(s).
- The Registration Fee is the same for In-Person and Virtual participation*.
- The Registration Fee is Non-Transferable
- Registration Fees are payable by credit card only
- *If you are required to change your registration type after registration please contact the Meeting Planner, Face to Face Events at 802info@facetoface-events.com
- Cancellation Fees and Deadlines
- Full Refund: Until May 20, 2022
- \$US150.00 Cancellation Fee: After May 20, 2022 until June 24, 2022
- No Refund: After June 24, 2022
- Session Registration Website
- https://cvent.me/Z1zqo0

- Hotel Room Reservations Booking Information
- •
- Le Centre Sheraton Montreal
- 1201 René-Lévesque Blvd W,
- Montreal, Quebec H3B 2L7
- Canada
- RATES (Subject to Availability)
- Standard Rate: \$275.00 Canadian per night until 5:00 PM ET Friday Jun 10, 2022
- •
- **Group Rate is subject to availability** and covers all guest sleeping room costs, including internet access and service fees, but is exclusive of applicable sales/room tax, currently 3.5% (lodging tax), 5% (GST) and 9.975% (PST).
- LINK FOR RESERVATIONS
- IEEE 802 Guest Room Block Reservations
- https://www.marriott.com/event-reservations/reservation-link.mi?id=1634749149346&key=GRP&app=resvlink

- *BOOKING NOTE: If you have specific room requirements like a King Size Bed, Two Beds, A Rollaway, ADA Room etc. please include the details in the comments box when making your reservation.
- BOOKING POLICY
- Cut Off Date
- Standard: 5:00 PM Eastern Time Friday June 17, 2022
- Cancellation Policy & Early Departure Fee
- Cancellation: No Fee if Canceled 72 Hours in Advance of Arrival Date
- Early Departure Fee: An early departure fee equal to 50% of the daily Group Rate will apply if a Meeting attendee checks out prior to the confirmed checkout date.

Traveling To/From Canada Information

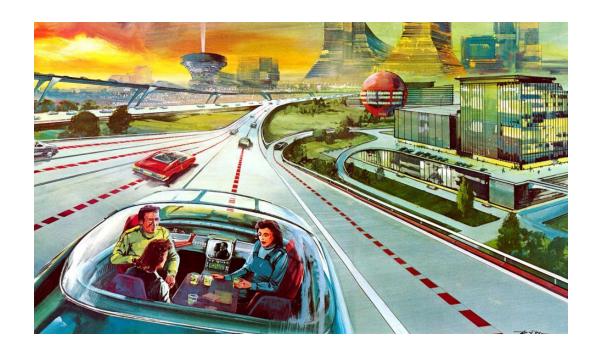
- Please take the steps to determine if you require travel documentation to attend a particular IEEE 802 Session. The **requirements change from time to time**. Because of this, we strongly urge all attendees to review the entry requirements for traveling to each IEEE 802 session location and determine for themselves, or in collaboration with their employer, what if any travel documentation is required.
- Local rules, restrictions and guidelines are expected to change rapidly as the COVID-19 situation evolves. IEEE's recommendation with respect to travel is to refer to your country's consulate or state department for the most up to date information related to travel.
- https://travel.state.gov/content/travel/en/traveladvisories/covid-19-travel-information.html As of 12 June, pre-entry testing is no longer required to enter the USA
- Canada Citizenship and Immigration provides introductory information about entry requirements on the following pages:
- Find out if you need a visa to travel to Canada
- Electronic Travel Authorization (eTA) Canada.ca

- COVID-19 Testing Arrival In Canada Information
- According to the Canada Border Services Agency Travelers entering Canada by land, air or water, regardless of citizenship, must follow requirements to keep everyone safe.
- Canadians must meet and follow all of the same entry requirements.
- Starting April 1, 2022, pre-entry tests are no longer required for fully vaccinated travelers entering Canada by land, air or water.
- ArriveCAN App
- You must still use ArriveCAN app to share your vaccination status within 72 hours before your arrival to Canada.
- Detailed information can be found at: <u>COVID-19</u>: <u>Get help for ArriveCAN Canada.ca</u>
- Meeting Planner Contact Information
- Face to Face Events
- Phone # +1 (949) 514-8004
- Email: 802info@facetoface-events.com
- If you have any questions about your participation, registration or hotel reservations for the July 2022 IEEE 802 Plenary Session please contact IEEE 802 Meeting Planner, Face to Face Events.

Future Meetings

Next meeting July 11, 2022 hybrid Montreal
Hybrid – Monday 1-5PM EDT
Call information on the Call and Meeting Calendar
http://www.ieee802.org/3/calendar.html

Questions?



Thank you!