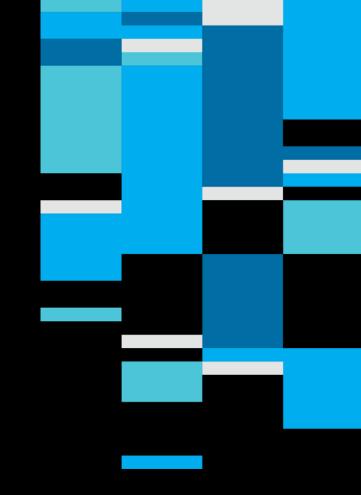


THE IEEE STANDARDS ASSOCIATION (SA) and IEEE 802 -AN INTRODUCTION

RAISING THE WORLD'S STANDARDS

July 2020

Glenn Parsons Chair, IEEE 802.1W orking Group







ADVANCING TECHNOLOGY FOR HUMANITY

ABOUTIEEE

- 420,000+ Members
- 160+ Countries
- 46 Technical Societies and Councils
- 1900+ Annual Conferences
- Global Humanitarian Efforts





RAISING THE WORLD'S STANDARDS

ABOUT IEEE SA

Developing market relevant open standards and solutions:

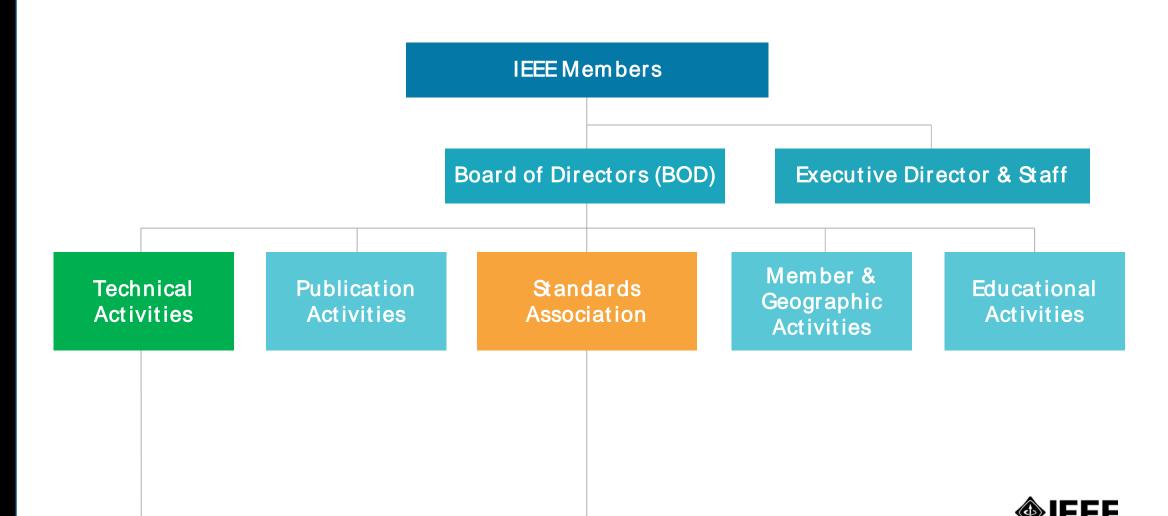
- Advancing global technologies and technology platforms
- Promoting innovation
- Protecting public safety, health & wellbeing
- Contributing to a sustainable future





ABOUT

IEEE STANDARDS ASSOCIATION AN OU INSIDE OF IEEE





ABOUT

Technical Activities Board (TAB)

Communications
Society

Power & Energy Society

Aerospace and Electronic Systems Society

Instrumentation & Measurement Society

Computer Society

Industry Applications
Society

Electromagnetic Compatibility Society

Vehicular Technology Society

Standards Activities Board (SAB)

LAN/MAN Standards Committee (LMSC)

Higher Layer LAN Protocols (802.1)

Ethernet (802.3)

WLAN (802.11)

WPAN (802.15)

Radio Regulatory (802.18) Wireless Coexistence (802.19) Vertical Applications (802.24)





ABOUT

IEEE SA Board of Governors (BOG)

Market Incubation & Industry Engagement **Financial** Marketing & Public & Sector Strategies **Business Acceleration** Sustainability SMDC Policy SMDC SMDC SMDC Platform Standards & Product & Service Technical Innovation & Infrastructure Standards Innovation SMDC Engagement SMDC Innovations SMDC Optimization SMDC

Corporate Advisory Group (CAG)

Standards Board (SASB)

Administrati ve Committee (AdCom)

Audit Committee (AudCom) Industry
Connections
Committee
(IC Com)

New Standards Committee (NesCom)

Patent Committee (PatCom) Procedures Committee (ProCom) Standards
Review
Committee
(RevCom)





IEEE SA BY THE NUMBERS

STANDARDS & PROJECTS

CORPORATE MEMBERS

1500+ 340+ 7500+

INDIVIDUAL MEMBERS

34,000+ 180+ **GLOBAL PARTICIPANTS**

GLOBAL AGREEMENTS





STANDARDIZATION OUTCOMES

COMPETITION

Influencing the competitiveness of industries & companies



CONFIDENCE

Demonstrating quality to customers by meeting expectations & requirements

INNOVATION

Providing an essential platform on which new technologies & processes can build



IEEE SA

STANDARDS ASSOCIATION



GROW TH

Facilitating trade & economic growth

PERFORMANCE

Fine-tuning performance and improving efficiency



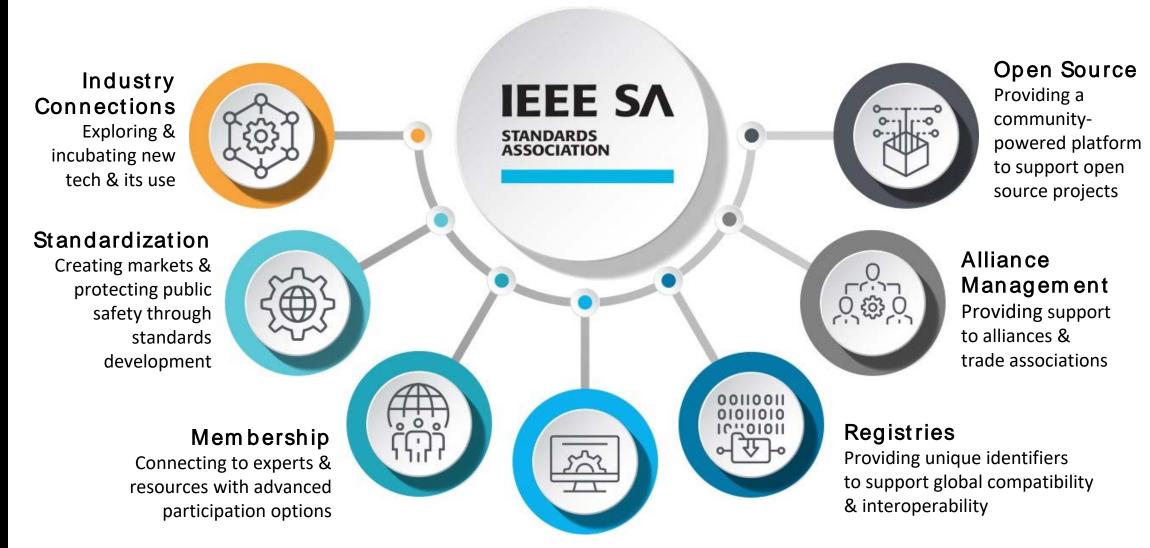
SUSTAINABILITY

Making technology safer, interoperable and sustainable for the future





PORTFOLIO OF PROGRAMS & SERVICES



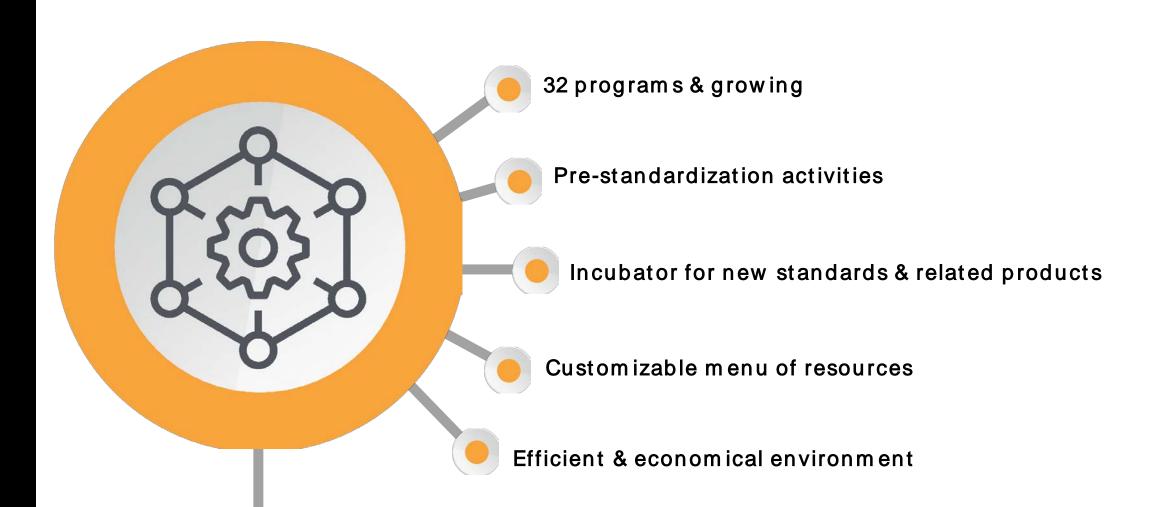
Conformity Assessment

Providing confidence & assurance & accelerating market adoption





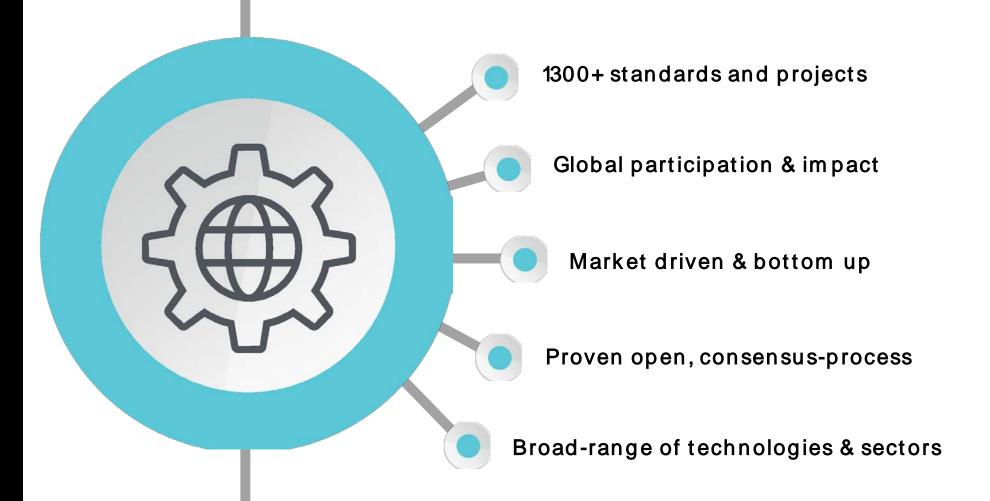
INDUSTRY CONNECTIONS







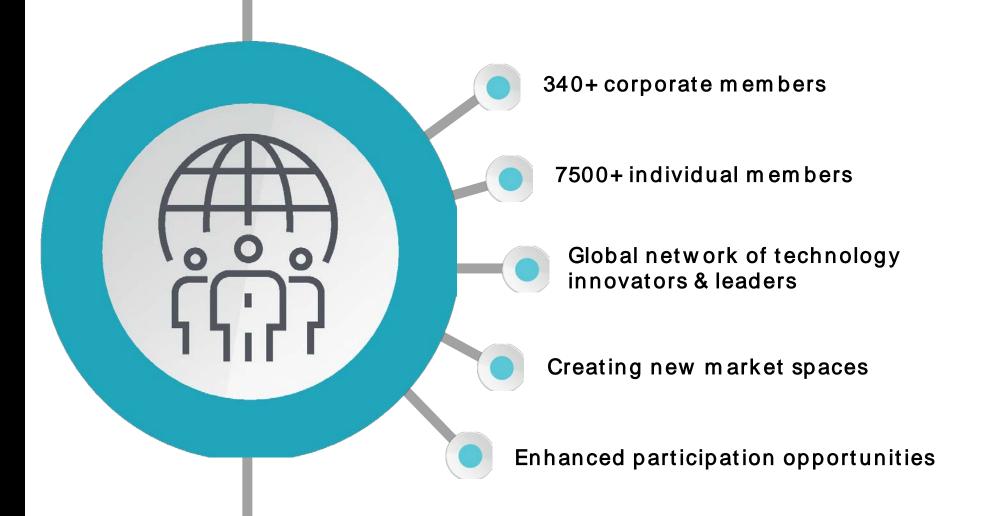
STANDARDIZATION







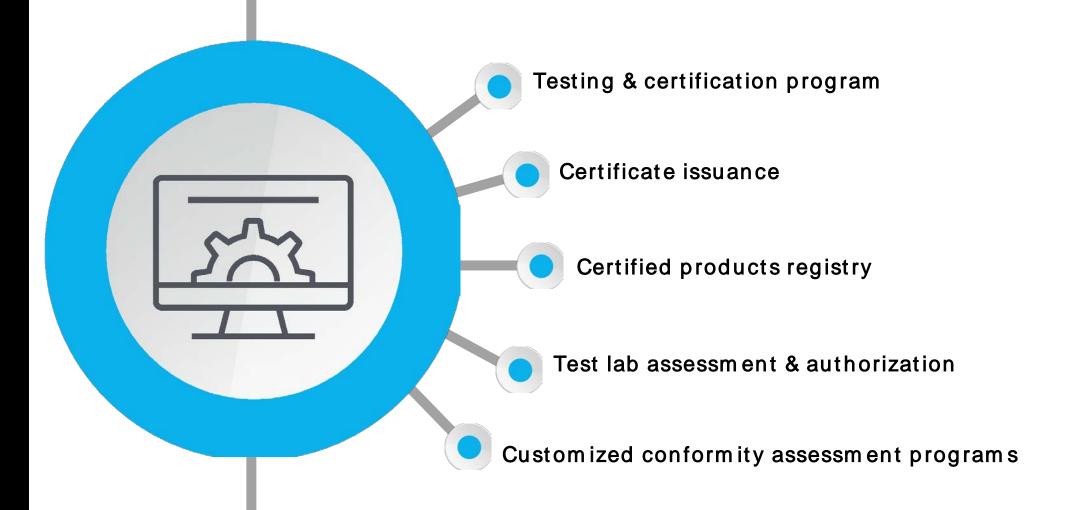
MEMBERSHIP







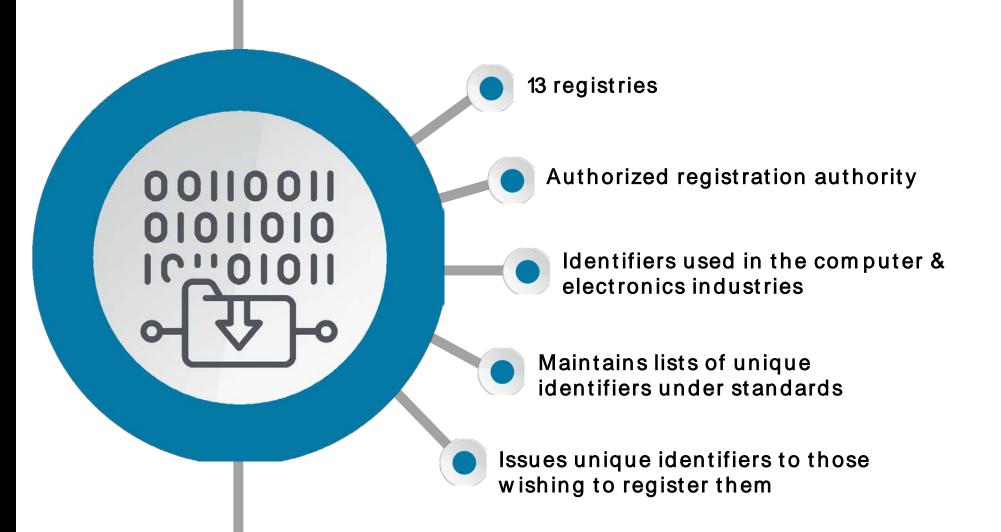
CONFORMITY ASSESSMENT







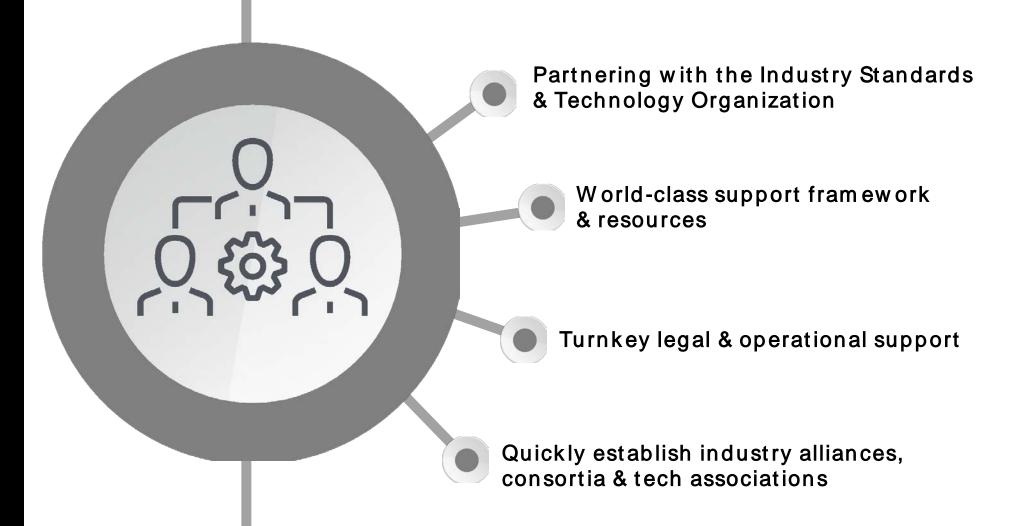
REGISTRIES







ALLIANCE MANAGEMENT

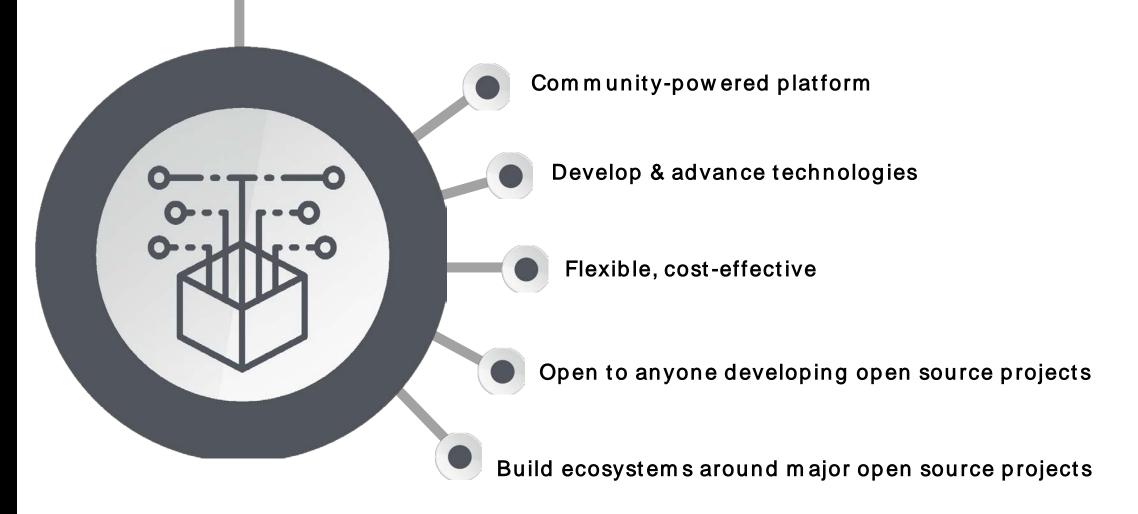






OPEN SOURCE











GLOBAL COLLABORATION

Collaborating and coordinating with national, regional and international standards bodies

Global collaboration helps to ensure the coordination of standardization works and the harmonization of standards

Existing global standards jointly developed by IEEE provide solutions to industry needs, avoid unnecessary duplication and can be leveraged for technology transfer, interoperability and global marketability—supporting import/export





COLLABORATION VEHICLES

National adoption of IEEE standards

- Countries can adopt current IEEE standards
- Translation of adopted standards also an option

Memorandum of Understanding

MOUs with organizations for standards-related cooperative activities, including:

- Joint workshops and events
- Joint standards development
- Capacity-building
- Technical-level cooperation

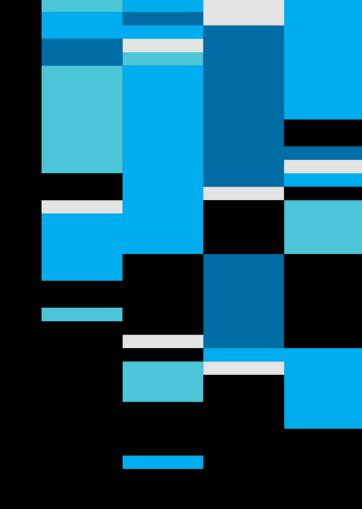






IEEE STANDARDS DEVELOPMENT PROCESS

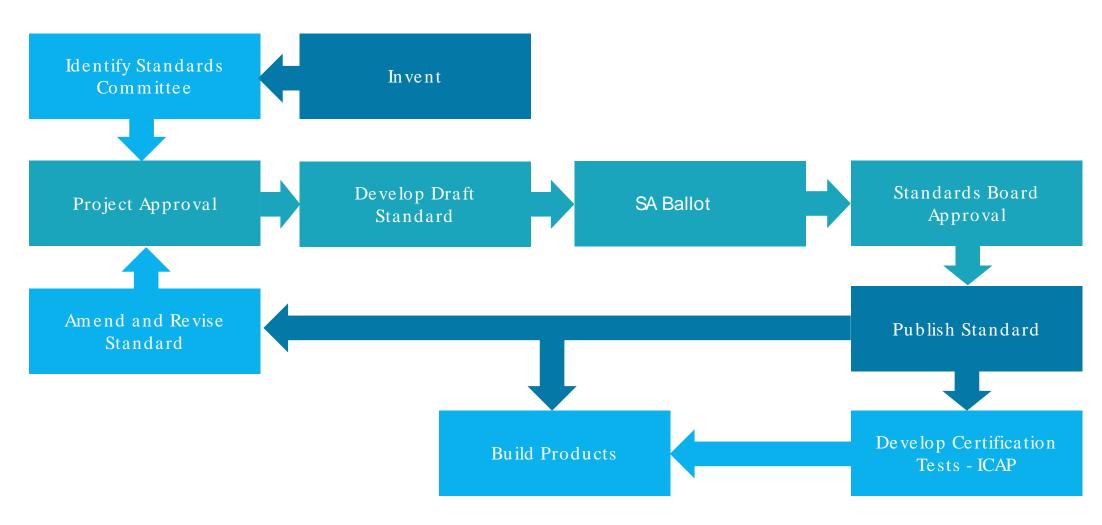
OVERVIEW







IEEE STANDARDS DEVELOPMENT PROCESS







IEEE STANDARDS BOARD

Establishes/maintains a consensus standards development process to assure:

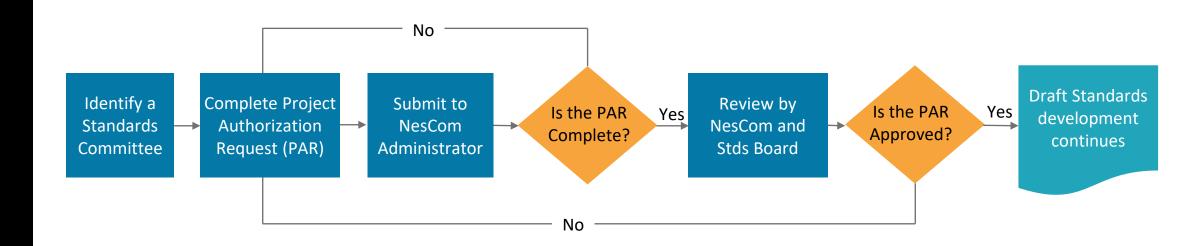
- Openness
- Fairness
- Balance of interests among materially affected parties
- Right to appeal
- Timely dissemination of standards and technical information







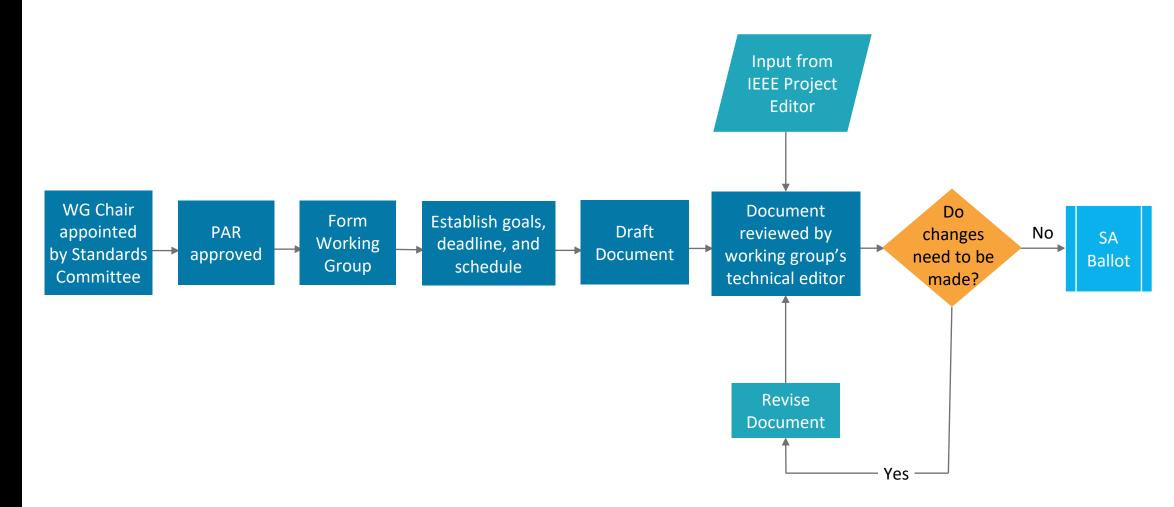
STANDARDS PROJECT APPROVAL PROCESS







DEVELOPING THE DRAFT STANDARD







BALLOTING

Task Group Ballot

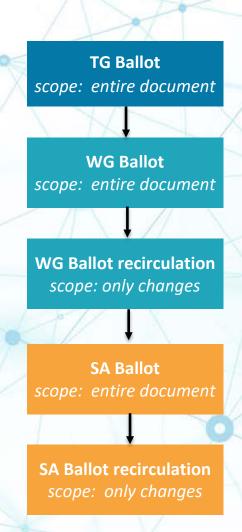
- Balloting period is a 14-day minimum
- Ballot pool is open to anyone
- No return rate or approval rate required

Working Group Ballot

- Balloting period is a 30-day minimum
- Ballot pool is limited to WG members

IEEE SA Ballot

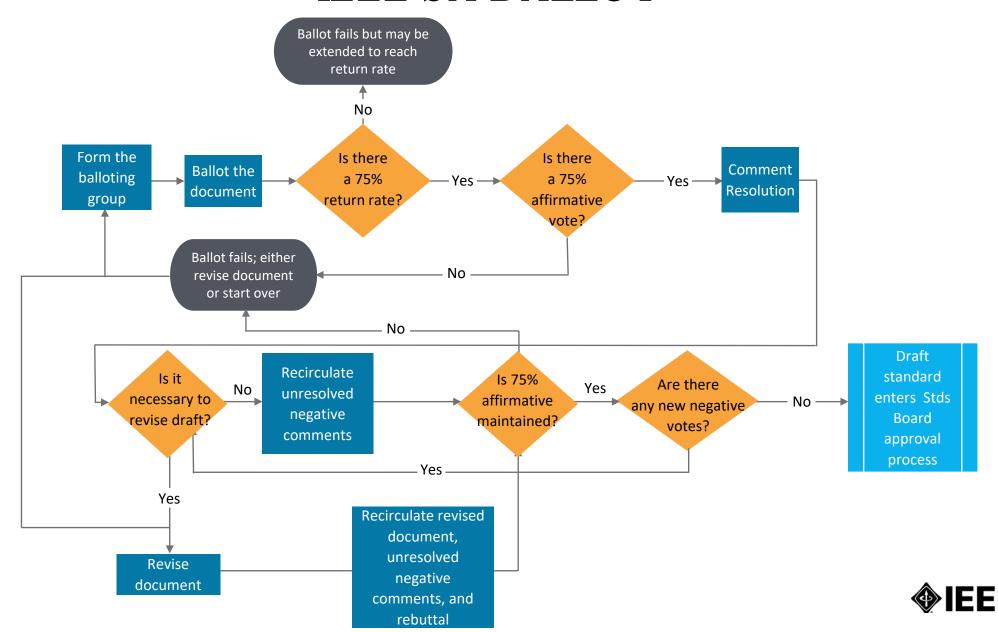
- Balloting period is a 30-day minimum
- Balloting group is set by invitation and must be balanced
- IEEE SA membership or payment of a fee is required in order to participate in a ballot







IEEE SA BALLOT





RESPONSE AND RESULTS OF BALLOTING

Response

- Balloters can ballot to approve, disapprove, or abstain
- Comments can be technical or editorial
- Need 75% return (ballot can be extended)

Results

- Need 75% approval
- Attempt to resolve negative ballots
- All comments received must be addressed

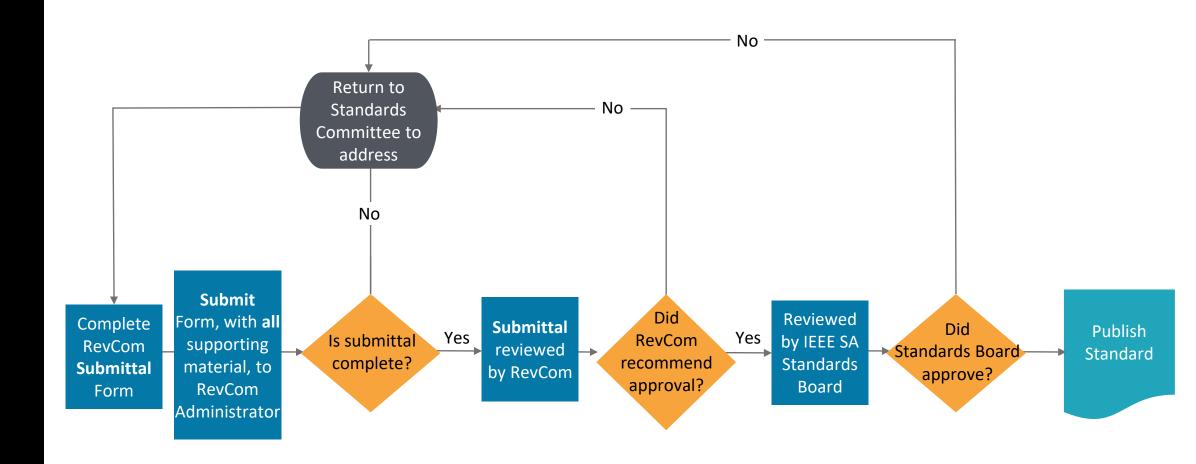
Recirculate revised draft and comments

- 10-day minimum
- Balloters have an opportunity to review the revised draft and responses to comments
- Balloters can change their vote





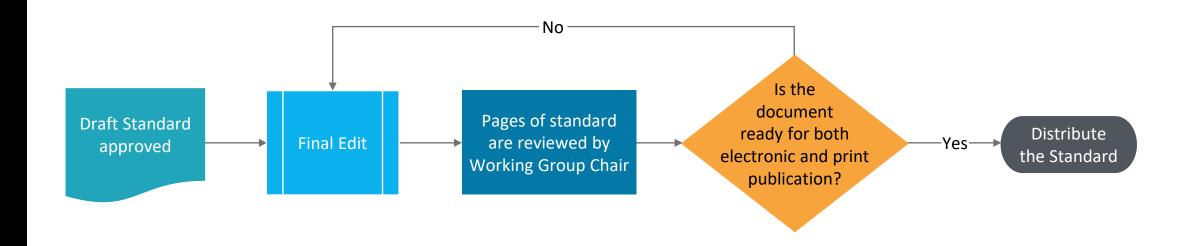
APPROVING THE DRAFT STANDARD







POST-APPROVAL AND PUBLICATION







MAINTENANCE

Standards have a 10-year lifecycle

 Standards must have a revision approved by the SASB prior to the close of year 10 in order to remain active

Any standard without an approved revision will become inactive after year 10

A revision action can result in:

- Changes to the standard
- Changes to only the references or bibliography
- No changes





MORE INFORMATION

Standards Development Online:

- http://standards.ieee.org/resources/development/index.html
- https://development.standards.ieee.org/pub/liaisons

LAN/MAN Standards Committee:

- http://ieee802.org/
- http://ieee802.org/devdocs.shtml





THANK YOU

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