

Welcome to IEEE 802 Newcomer Orientation

www.ieee802.org

IEEE 802 Plenary Session Last updated, February 20, 2014



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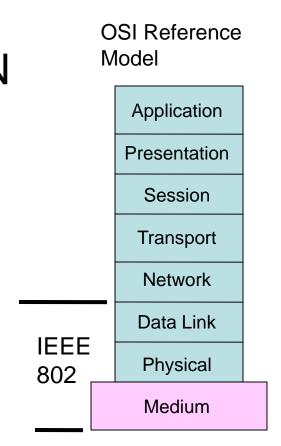


Introduction to IEEE 802



Who we are

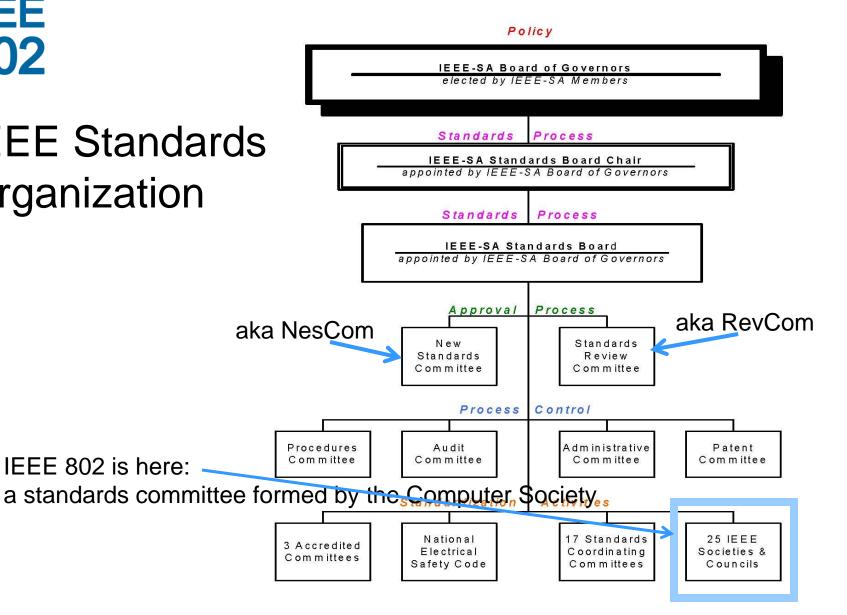
- IEEE Project 802 LAN/MAN Standards Committee (aka IEEE 802 or LMSC)
 - Develop LAN and MAN standards
 - Mainly for link and physical layers of the network stack
 - In operation since March 1980





IEEE Standards Organization

IEEE 802 is here:





Some terms

- PAR project authorization request the document that authorizes work on a project.
- WG Working group responsible for developing standards in an area
- TAG Technical Advisory Group experts on a topic area that crosses working groups – may develop a recommended practice.
- Task group or task force a part of a working group which focuses on a particular project.

EEE All those dots....decoder ring

- 802.1 Bridging and Architecture generally the top of the link layer
- ➤ 802.3 Ethernet
- > 802.11 Wireless LAN (WLAN)
- > 802.15 Wireless Personal Area Network (WPAN)
- 802.16 Broadband Wireless Access (BWA)
- 802.18 Radio Regulatory TAG
- ➤ 802.19 Coexistence
- ➤ 802.21 Media Independent Handover
- 802.22 Wireless Regional Area Networks (WRAN)
- > 802.24 Smart Grid TAG



IEEE 802 Organization

EXECUTIVE COMMITTEE (EC)

CHAIR Paul Nikolich

Working Group/TAG Chairs

802.1 BRIDGING/ARCH Glenn Parsons

802.15

WPAN

Bob Heile

802.19

Coexistence

Steve

Shellhammer

802.3 Ethernet David Law

802.16

BWA

Roger Marks

802.21

Media indep.

handover

Subir Das

802.11 WLAN Adrian Stephens

802.18 TAG

Radio Regulatory

Mike Lynch

802.22

WRAN

Apurva Mody

Max Riegel

Hibernating WG Chairs

(non voting)

802.17
Resilent Packet
Ring
John Lemon

802.20 MBWA Radhakrishna **Appointed Officers**

1st VICE CHAIR Pat Thaler

2nd VICE CHAIR James P.K. Gilb

EXECUTIVE SECJon Rosdahl

RECORDING SEC John D'Ambrosia

TREASURER Clint Chaplin

802.24 OmniRAN Study Group

DISBANDED

James P.K. Gilb

802.2 LLC 802.5 Token Ring 802.7 Broadband TAG ISLAN 802.12 Demand Priority 802.4 Token Bus 802.6 DQDB 802.8 Fiber Optic TAG 802.10 Security 802.14 CATV

ECSG TV Whitespace ECSG Emergency Services 802.23 Emergency Services 802.9

Appointed Officers (non voting)

MEETING MGR MEMBER EMERITUS Buzz Rigsbee

MEMBER EMERITUS Geoff Thompson

EEE General structure of the week

	Sun	Mon	Tue	Wed	Thu	Fri
A M	Some task forces / task group meetings	 Opening EC 802-newcomer orientation 802.11-newcomer Some WG Opening plenaries 	Task force and task group meetings		Task force and task group	WG plenary
P M		-Remaining WG opening plenaries -Task force and task group mtgs			WG plenary or task force or group	Closing EC
E v e		tutorials	TF/TG mtgs	social	WG plenary	

Check WG agendas for details – there is some variation between groups



Introduction to IEEE standards process



Principles of the process

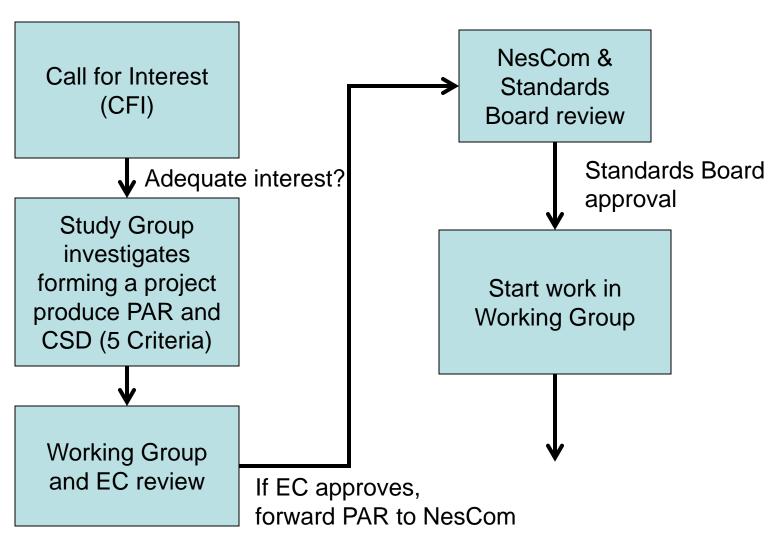
- Due process procedures are publicly available and followed consistently
- Consensus requiring agreement of a majority or supermajority – for technical decisions here ≥75%
- Openness ensuring materially interested and affected parties can participate
- Balance representation from all interested parties without overwhelming influence from any one party
- Right of appeal process to ensure due process



More terms

- CFI Call for interest a brief meeting to outline a topic and determine if there is interest in investigating possible project
- Study Group a group formed to investigate a project and produce a PAR
- Criteria for Standards Development (CSD) – In IEEE 802 the basis for determining whether to forward a PAR.
- Five Criteria a subset of the CSD

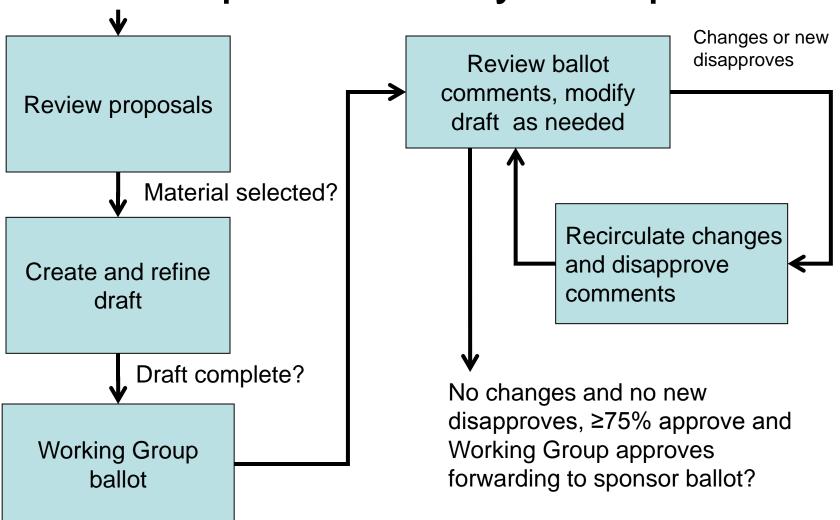
IEEE IEEE 802 standards 802 development life cycle – part 1



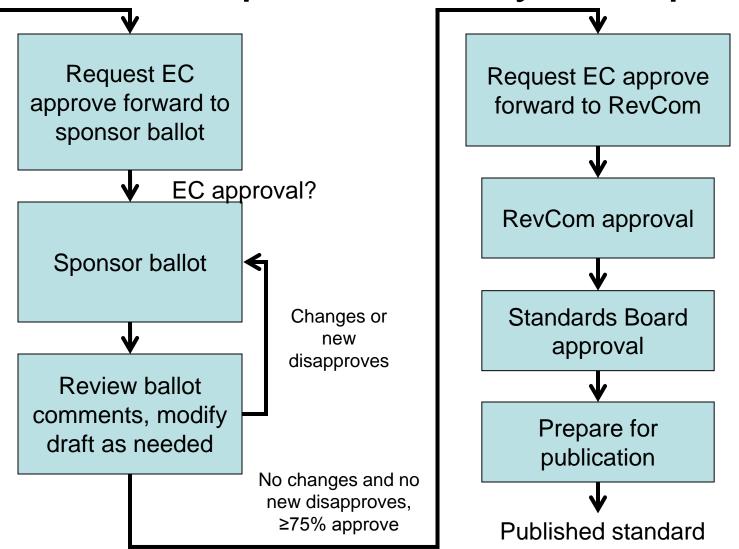
IEEE 802 criteria for standards 802 development (CSD)

- Project Process
 - Managed objects
 - Coexistence (for a wireless project)
- Five Criteria
 - Broad Market Potential
 - Compatibility
 - Distinct Identity
 - Technical Feasibility
 - Economic Feasibility

IEEE IEEE 802 standards 802 development life cycle – part 2



IEEE IEEE 802 standards 802 development life cycle – part 3



Standards life cycle – part 4

And then there is maintaining the standard

- Keep the standard current by producing amendments and corrigenda (corrections)
- Renew the life of the standard with revision
- When the standard is out of date, withdraw it.

802 Voting and membership

- Voters have responsibility to vote on letter ballots
- Three levels of voting occur in IEEE 802 standards development:
 - Sponsor ballot
 - Open to all interested parties
 - Via IEEE SA-membership or paying a per ballot fee
 - Participation requires an IEEE Web Account
 - Working group
 - Requirements on next page
 - Task force or task group
 - Requirements vary consult Working group.



Acquiring Working Group voting membership

- Participating at a meeting = at least 75% presence.
- For a new Working Group, persons participating in the initial meeting become members.
- For an existing Working Group, after attending 2 of last 4 plenary sessions or 1 plenary and 1 interim, membership starts at the next plenary attended.
 - May require submitting a letter of intent.



Retaining Working Group voting membership

- Participate in 2 of the last 4 plenary sessions.
 - An interim may substitute for one of the 2 plenary sessions.
- Return working Group letter ballots
 - Membership may be lost for failing to respond or responding abstain for reason other than "lack of technical expertise" to 2 of the last 3 ballots.



Affiliation

- •IEEE-SA Standards Board By-Laws, Section 5.2.1.5
 - -(http://standards.ieee.org/guides/bylaws/sect5.html)
- Disclosure of Affiliation
 - "Every member and participant in a working group, Sponsor ballot, or other standards development activity shall disclose his or her affiliation."
- What is "Affiliation"
 - •"An individual is deemed "affiliated" with any individual or entity that has been, or will be, financially or materially supporting that individual's participation in a particular IEEE standards activity. This includes, but is not limited to, his or her employer and any individual or entity that has or will have, either directly or indirectly, requested, paid for, or otherwise sponsored his or her participation."
- Affiliation and participation
 - "Failure to disclose every such affiliation may result in complete or partial loss of rights to participate in IEEE-SA activities. An individual is not excused from compliance with this policy by reason of any claim of a conflicting obligation (whether contractual or otherwise) that prohibits disclosure of affiliation."



Ground rules

- > Respect ... give it, get it
- NO product pitches
- NO corporate pitches
- NO prices
- NO restrictive notices presentations must be openly available
- Silence your cell phone ringers



IEEE Patent policy see the slide set at:

http://standards.ieee.org/board/pat/pat-slideset.ppt



Getting more information



Resources

- IEEE 802 home page:
 - http://www.ieee802.org
- IEEE 802 chairs, etc.
 - http://www.ieee802.org/wgchairs.shtml
- Links to IEEE and IEEE 802 procedural documents:
 - http://www.ieee802.org/devdocs.shtml
- Links to IEEE 802 WG and TAG pages:
 - http://www.ieee802.org/dots.shtml
- Links to these slides and IEEE 802 orientation
 - http://ieee802.org/orientation.shtml