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IEEE 802 Plenary Session Last updated, 7 July 2015

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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

OSI Reference Model







## Individual Method

- IEEE has two types of standards groups
  - Individual method or Entity method
- IEEE 802's projects use the Individual method
- Voter's are individuals, not entities (e.g. companies)

## 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.
- 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 Vertical Applications TAG



## **IEEE 802 Organization**

CHAIR Paul Nikolich

#### **EXECUTIVE COMMITTEE (EC)**

**Working Group/TAG Chairs** 



## EEE General structure of the week

	Sun	Mon	Tue	Wed	Thu	Fri
A M	Some task force/ group meetings	<ul> <li>Opening EC</li> <li>802 new comer</li> <li>orientation</li> <li>WG opening</li> <li>plenaries (most)</li> </ul>	Task force/group meetings		Task force/ group meetings	Other WG plenaries
P M	Wireless new member orient	<ul> <li>Remaining WG</li> <li>opening plenaries</li> <li>Task force/group</li> <li>meetings</li> </ul>			Some WG plenaries TF/TG meetings	Closing EC
E v e		Tutorials	TF/TG mtgs	Social		

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 802 standards 802 development life cycle – part 1



## IEEE 802 criteria for standards development (CSD)

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

# IEEE 802 standards development life cycle – part 2





## EEE 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.

#### **EEE** 802 Voting and membership

- Voters have responsibility to vote on letter ballots
- Three levels of review/voting occur in IEEE 802 standards development:
  - Task force or task group review or ballot
    - Requirements vary consult Working group.
  - Working group ballot
    - Requirements on next page
  - Sponsor ballot
    - Open to all interested parties
      - Via IEEE SA-membership

# 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
   <u>http://standards.ieee.org/guides/bylaws/sect5.html</u>
- What is affiliation?
  - You are "affiliated" with any individual or entity that has been, or will be, financially or materially supporting your participation in a particular IEEE standards activity.
  - E.g, an individual or organization supporting your participation and/or an employer
- Disclosure of affiliation is required.
  - Every member and participant shall disclose his or her affiliation.
  - Not excused from compliance with this policy by 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: https://standards.ieee.org/about/sasb/patcom /materials.html



### Getting more information

### Resources

- IEEE 802 home page:
  - http://www.ieee802.org
- IEEE 802 chairs, etc.
  - <u>http://www.ieee802.org/wgchairs.shtml</u>
- 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