Agenda and General Information

IEEE 802.3
YANG Data Model(s) Study Group Meeting

Yan Zhuang, Huawei Technologies

Study Group Chair

San Diego, CA, US, July 25th-28th, 2016

Agenda

- Appointment of Recording Secretary
- Welcome and Introductions
- Approve Agenda
- Approve Minutes from May SG meeting
  - http://www.ieee802.org/3/YANG/public/may16/unconfirmed_minutes_yang_0516_v2.pdf
- Goals for this meeting
- Reflector and Web
- Ground Rules
- IEEE
  - Structure, Bylaws and Rules
  - Call for Patents
  - IEEE Standards Process
- Liaisons and Communications
- Meeting Schedule and Presentations
- Motions and Closing Business
- Future Meetings

Study Group Decorum

- Photography or recording by permission only (December 2014 IEEE-SA Standards Board Ops Manual 5.3.3.2)
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (December 2014 IEEE-SA Standards Board Ops Manual 5.3.3.3)
- Cell phone ringers off
- Wear your badges at all times in meeting areas
  - Help the hotel security staff improve the general security of the meeting rooms
  - **PCs HAVE BEEN STOLEN** at previous meetings
  - **DO NOT** assume that meeting areas are secure
- Please observe proper decorum in meetings

Goals for the meeting

- Review and resolve comments and update/refine adopted objectives, CSD responses and PAR

- Request approval on documentation (Objectives, CSD, PAR) in 802.3 WG closing plenary

- Review and response to the liaison Letter from ITU-T-SG-15

Reflector and Web

- To subscribe to the IEEE 802.3 YANG data model(s) study group reflector, send an email to:

  ListServ@ieee.org

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

  subscribe STDS-802-3-YANG <yourfirstname> <yourlastname>

  end

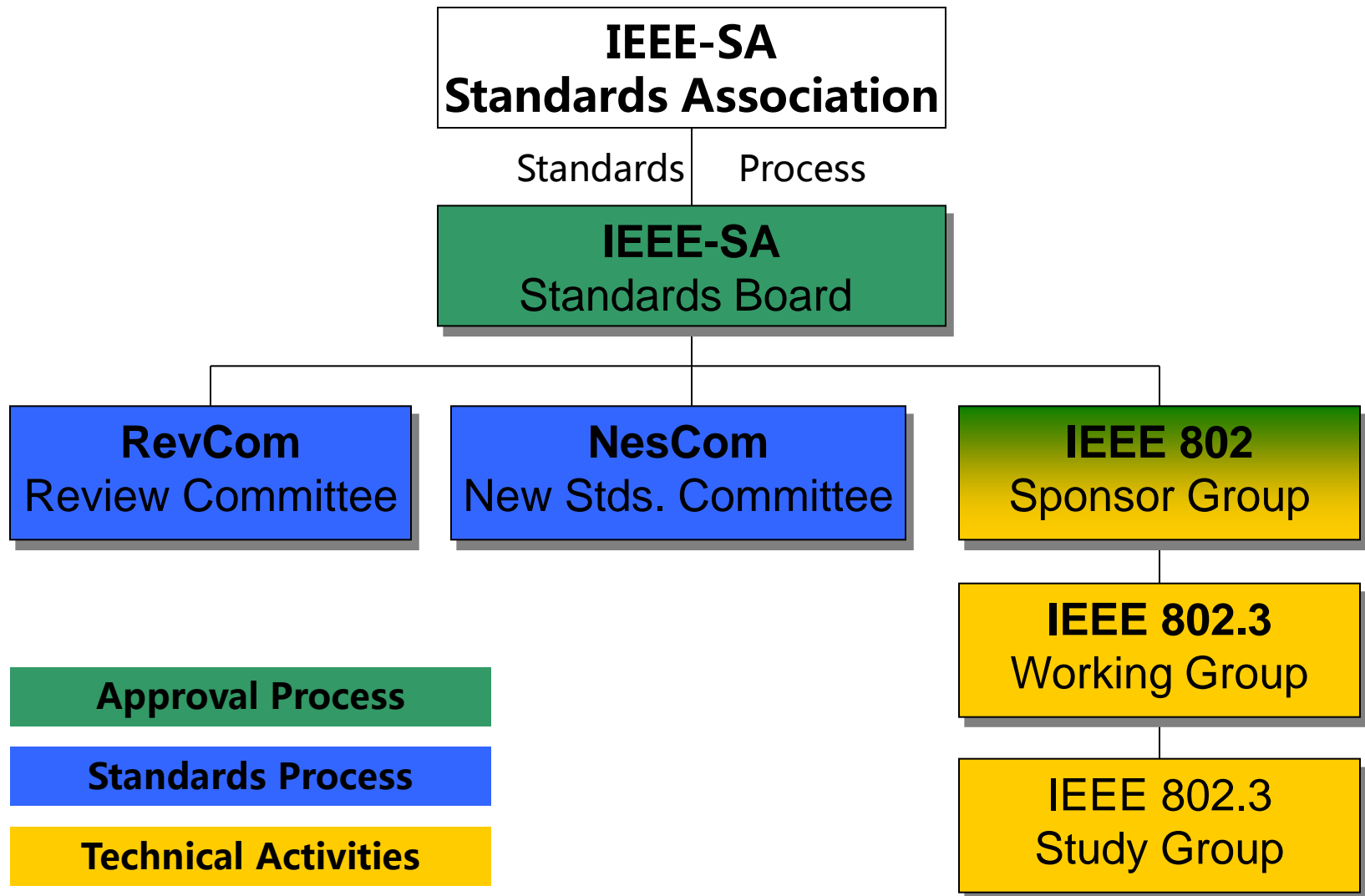- Send <<*Study Group name*>> reflector messages to:

  STDS-802-3-YANG@LISTSERV.IEEE.ORG

- Study Group web page URL:

  http://www.ieee802.org/3/YANG/

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

IEEE-SA
Standards Association

Standards | Process

IEEE-SA
Standards Board

RevCom
Review Committee

NesCom
New Stds. Committee

IEEE 802
Sponsor Group

IEEE 802.3
Working Group

IEEE 802.3
Study Group

Approval Process

Standards Process

Technical Activities

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**
  http://standards.ieee.org/about/sasb/audcom/pnp/LMSC.pdf

- **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
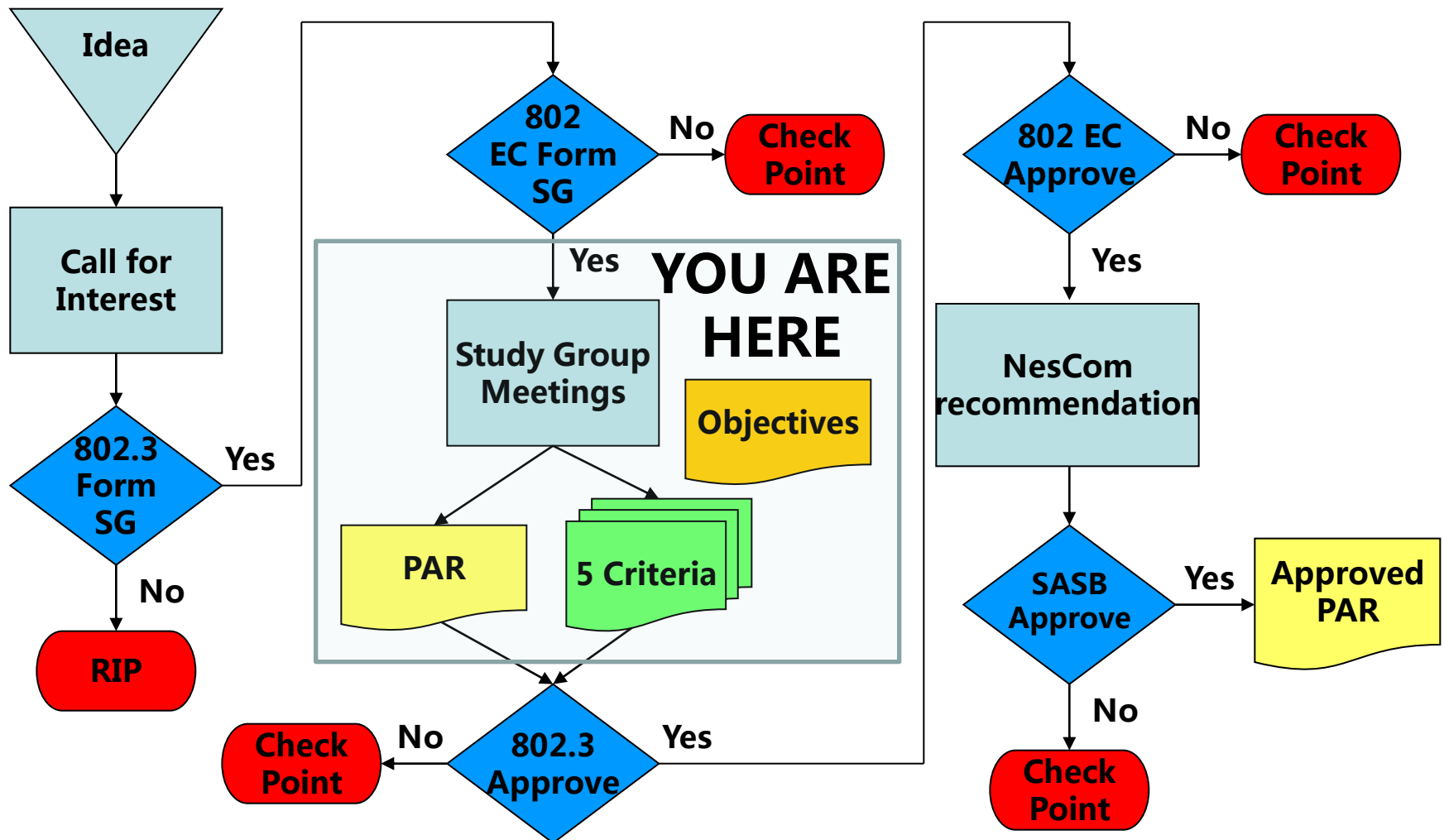
Guidelines for IEEE-SA Meetings

- **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, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.

        - Technical considerations remain 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… do formally object.**

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit http://standards.ieee.org/about/sasb/patcom/index.html

See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and "Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy" for more details.
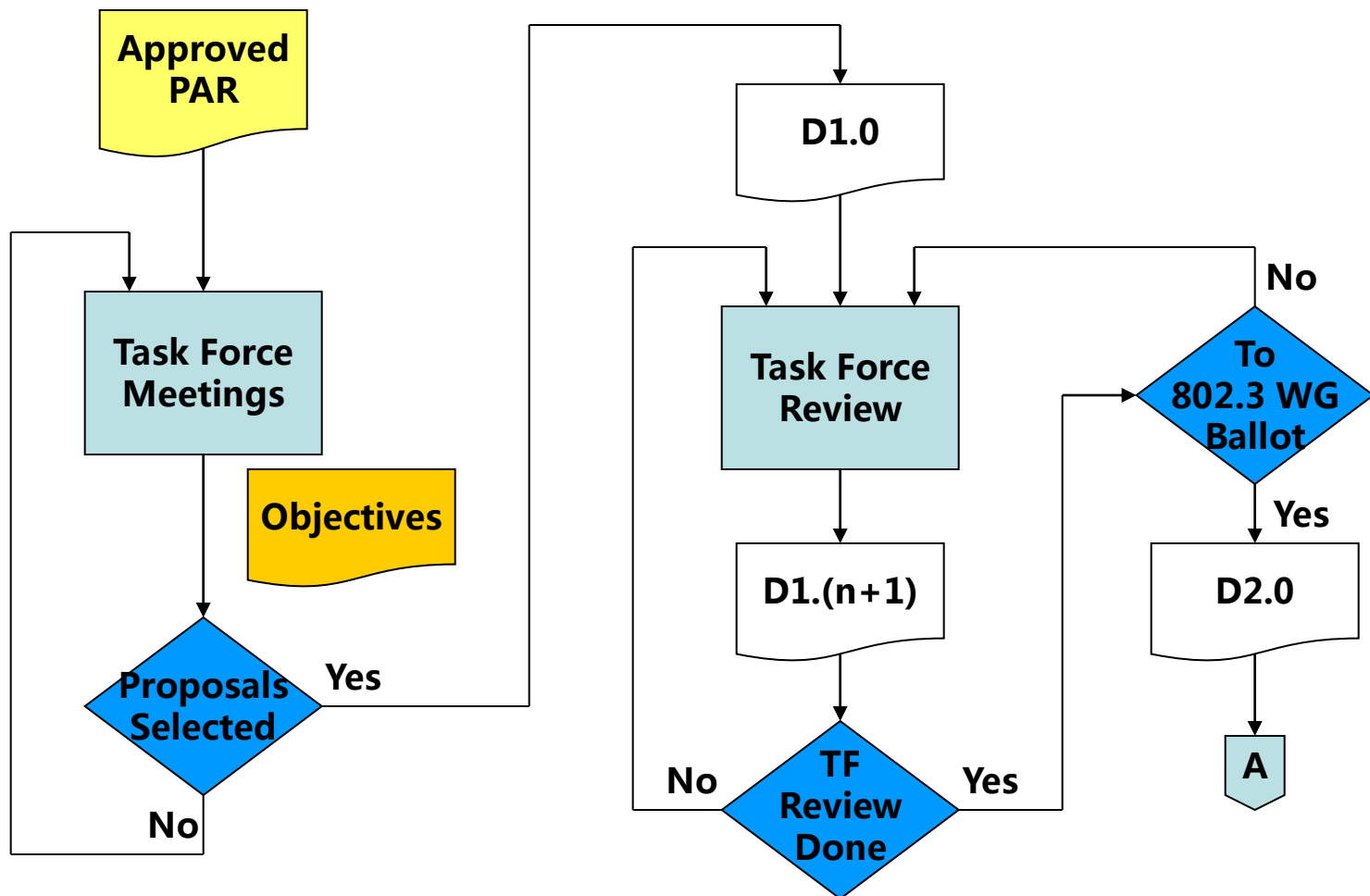
**This slide set is available
at https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.ppt**

**March 2015
IEEE-SA Standards Board Patent Committee**

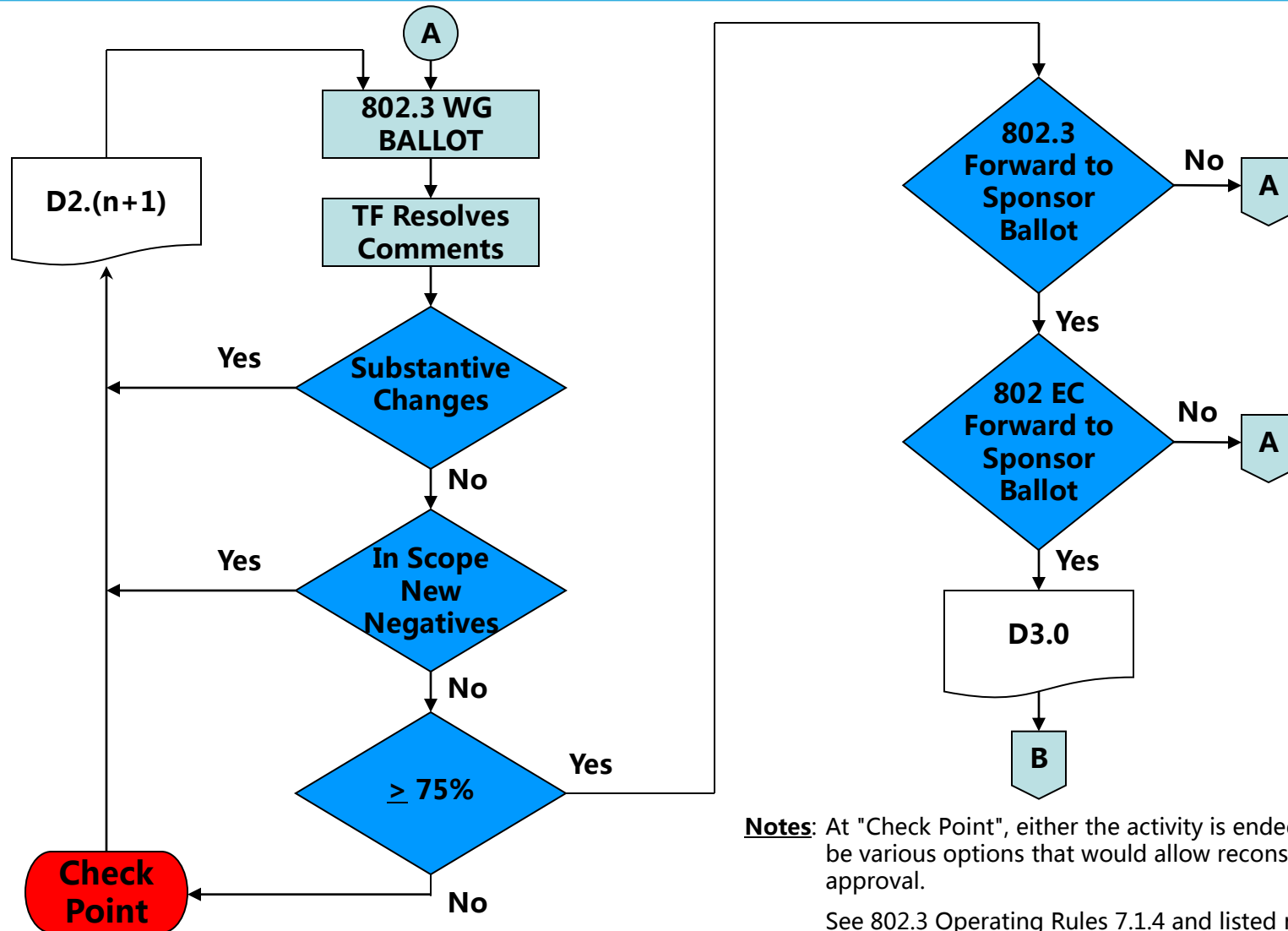# Overview of IEEE 802.3 Standards Process (1/5)- Study Group Phase

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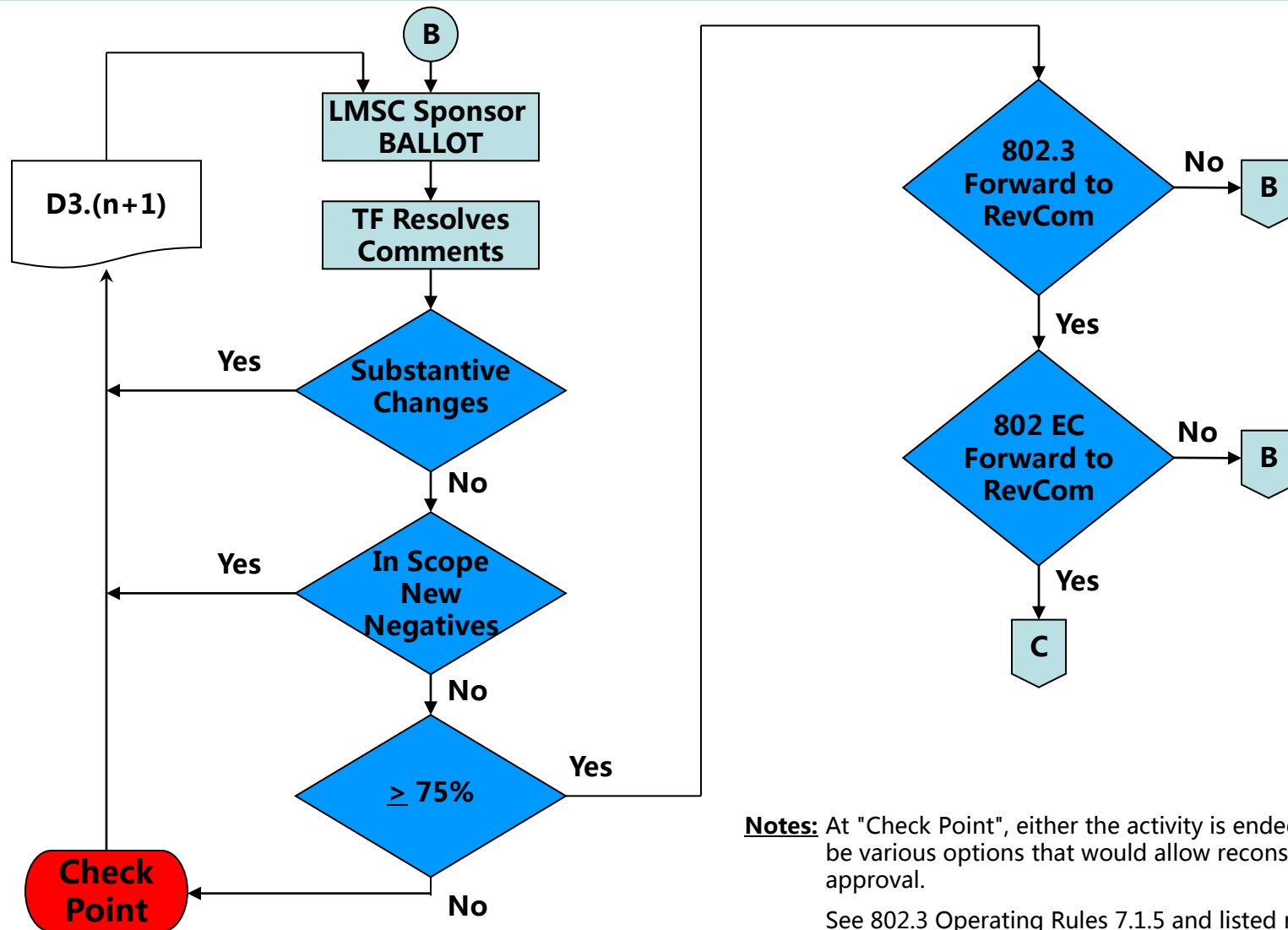
Overview of IEEE 802.3 Standards Process (3/5) – Working Group Ballot Phase

A

802.3 WG BALLOT

D2.(n+1)

TF Resolves Comments

Substantive Changes — **Yes**

No

In Scope New Negatives — **Yes**

No

≥ 75% — **Yes**

No

Check Point

802.3 Forward to Sponsor Ballot — **No** → **A**

Yes

802 EC Forward to Sponsor Ballot — **No** → **A**

Yes

D3.0

B

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

See 802.3 Operating Rules 7.1.4 and listed references for complete description

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

B

LMSC Sponsor BALLOT

TF Resolves Comments

D3.(n+1)

Substantive Changes — Yes

No

In Scope New Negatives — Yes

No

> 75% — Yes

No

Check Point

802.3 Forward to RevCom — No → **B**

Yes

802 EC Forward to RevCom — No → **B**

Yes

C

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

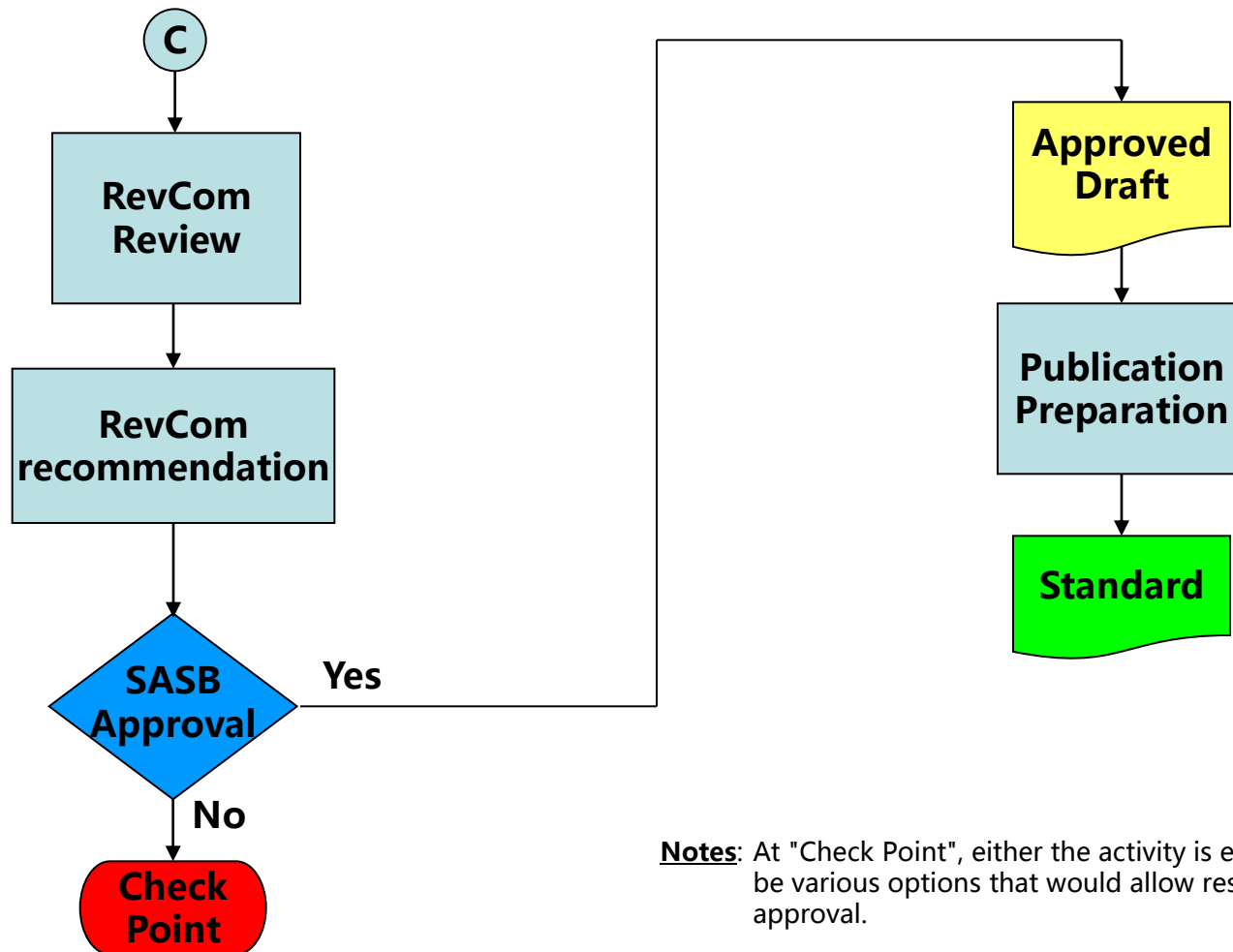See 802.3 Operating Rules 7.1.5 and listed references for complete description

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

Notes: At "Check Point", either the activity is ended, or there may be various options that would allow resubmission for approval.

The Study Group

- Normal function is to draft a complete PAR and Five Criteria
- Provide a plenary week tutorial to the LMSC.
- Gain approval at the IEEE 802.3 WG, IEEE 802 EC, IEEE-SA NesCom and IEEE-SA Standards Board.
- SG only exists for 6 months
    - Extensions can be requested
    - Voted on by IEEE 802.3
    - Ratified by IEEE 802 EC
- Development of Objectives helps set the goals for the Task Force
- Consensus required to move forward

- Not a goal – choosing a solution.

Request for Formation of Study Group
(as per March 2016 Plenary Motion)

Motion #30

Move that the IEEE 802.3 WG form a study group to develop a PAR and CSD for: "IEEE 802.3 YANG data model(s)"

M: Y. Zhuang S: M. Hajduczenia

> 50%

Y: 71, N: 0, A: 4

Passed 17-March 2016, 5:39 pm

Crash course on Study Group Goals

- For an excellent overviews of the Study Group activities please refer to:
- Overview of the Process – Wael Diab

  http://www.ieee802.org/3/400GSG/public/13_05/diab_400_01_0513.pdf
- Review of the 5 Criteria – Howard Frazier

  http://www.ieee802.org/3/400GSG/public/13_05/frazier_400_01_0513.pdf
- Guidelines for Project Objectives – Howard Frazier

  http://www.ieee802.org/3/400GSG/public/13_05/frazier_400_02_0513.pdf

- The following slides are taken from these excellent presentations above, AND these "crash course" slides references are taken from Mark Norwell's 25G Agenda slides, http://www.ieee802.org/3/25GSG/public/Sept14/agenda_25GE_01_0914a.pdf

From Overview of the Process – Diab

http://www.ieee802.org/3/400GSG/public/13_05/diab_400_01_0513.pdf

What does the Study Group produce?

- 5 Criteria
    - Broad Market Potential, Compatibility, Distinct Identity, Technical Feasibility, Economic Feasibility
- PAR
    - Your "contract" with the IEEE-SA and "authorization" to develop a standard
    - Broadly focuses on what the standard is that group will work on including scope, purpose, broad timeline (not a project plan)
    - Good idea to look at examples of prior projects
- Objectives
    - Your "contract" with 802.3
    - At a high level it is what the group will work on (and what it will not)
    - Somewhat more specific than the scope in the PAR

From Overview of the Process – Diab

Final Thoughts…

- Goal is to get to a Task Force
- To do that, focus on…
  - Producing the objectives
  - Producing the PAR
  - Producing the 5 criteria
  - Work on building consensus…
  - Leave the rest of it to the Task Force phase…
    - Plenty of time to work on solutions
    - Plenty of time to debate the text of the solutions

Version 1.0   IEEE 802.3 400G SG – May 2013   Page 26

From Guidelines for Project Objectives – Frazier

http://www.ieee802.org/3/400GSG/public/13_05/frazier_400_02_0513.pdf

History and traditions

- Project objectives are brief statements, usually written in bullet form, that summarize the technical objectives for a standards project in IEEE 802.3
- They represent a distilled set of high-level technical requirements
- They are created by the study group, approved by the parent working group, and are fulfilled by the task force
  - The task force may modify them, with the approval of the working group
- They typically address areas such as operating speed (bit rate), media, reach, BER, compatibility, impairments, coexistence
- Note that some other working groups address such areas in their Project Authorization Request, but we tend not to do this
- Every project undertaken in the IEEE 802.3 working group since (at least) 1992 has been guided by a set of objectives

From Guidelines for Project Objectives – Frazier

http://www.ieee802.org/3/400GSG/public/13_05/frazier_400_02_0513.pdf

Guidelines for writing and adopting

- Consensus building is key
  - Don't even think about offering up a motion to adopt an objective until you know you have significant support for it, otherwise, things will get ugly
- Offer objectives one at a time, using a motion like this:

  Example - for illustrative purposes only!
  - Move that the Study Group adopt the following objective:
    - Provide a BER of 10^{-12} or better at the MAC/PLS service interface
- All votes on objectives are technical, requiring $\geq 75\%$ approval
- Sometimes, we trying adopting just the form of an objective, before we can reach agreement on the specific values
  - These are called "Mad-libs" objectives

  Example - for illustrative purposes only!
  - Move that the Study Group adopt the following objective:
    - Provide a BER of 10^{-n} or better at the MAC/PLS service interface
  - This is not the preferred approach!

From Guidelines for 5 Criteria (CSD) – Frazier

http://www.ieee802.org/3/400GSG/public/13_05/frazier_400_01_0513.pdf

Audience

- The 5 criteria are drafted and approved by a study group

- They are reviewed and approved (individually) by the working group

- They are subject to review and approval by each and every other working group in IEEE 802®

- They are reviewed and approved by the IEEE 802 executive committee

From Guidelines for 5 Criteria (CSD) – Frazier

http://www.ieee802.org/3/400GSG/public/13_05/frazier_400_01_0513.pdf

Purpose

- The 5 criteria are used to evaluate proposed projects

- They are used to filter out projects that are not appropriate for standardization in IEEE 802

- They are unique to IEEE 802

- They are one of the reasons why IEEE 802 standards are relatively successful

- They help perpetuate the "IEEE 802 culture"

Attendance

- Tutorial Material on attendance tool
  - http://ieee802.org/3/minutes/attendance_procedures.pdf

- Access details
  - URL: http://imat.ieee.org/

Draft Presentation Agenda

No	Title	Authors	Affiliation
1	Agenda & General Information	Yan Zhuang	Huawei
2	Ad hoc Report	Peter Jones	Cisco
3	LS on generation of YANG modules from Transport Technology UML information models	ITU-T-SG-15	ITU-T
4	Review of comments on project documentation	Yan Zhuang	Huawei

Note –Times listed are subject to change.

Draft Meeting Schedule

- Two session slots
  - Monday 13:00-17:00   Hillcrest B, 3rd Seaport Tower
  - Wednesday 13:00-17:00   Cortez Hill C, 3rd Seaport Tower
- Monday afternoon
  - Welcome, Agenda & General Info
  - Arch Ad Hoc Report
  - Liaison review and response
  - IEEE 802 comments (partial) received (deadline is 5 pm Tuesday).
  - Objectives review, discussions on PAR, CSD, Objectives
  - Other items?
- Wednesday afternoon
  - IEEE 802 Comments to PAR & CSD response
    Revision to PAR, CSD, Objectives as appropriate and responses
  - PAR, CSD discussions and motion to request 802.3 approval
  - Objectives - discussions and motion to request 802.3 approval
  - Other topics?

Note –Times listed are subject to change.

Future Meetings

- Ad-hoc meeting plans
  - Bi-weekly 1 hr meeting calls, all topics (will cycle).
- See: http://www.ieee802.org/meeting/index.html
- September 2016 Interim ← 1st TF meeting if 802.3cf PAR is approved
  - Week of September 12th, 2016 - Ft. Worth, Texas, USA
- November 2016 Plenary
  - Week of November 7th,2016 - San Antonio, USA
- January 2017 Interim
  - Week of January 9th,2017 – North American, TBD
- March 2017 Plenary
  - Week of March 13th, 2017 - Vancouver, Canada

- Anyone interested in hosting a interim meeting contact me or the IEEE 802.3 Executive Secretary Steve Carlson.

Thank You!