

IEEE P802.3an Task Force (10GBASE-T)

Agenda and General Information

Atlanta, GA

March 15-17, 2005

Brad Booth, Task Force Chair

Please Put Cell Phones on Stun!!



Agenda

- **Welcome**
- **Recording Secretary: G. Eisler**
- **Introductions**
- **Approval of the Minutes**
- **Plans for the Week**
- **Reflector and Web**
- **Ground Rules**
- **IEEE**
 - **Structure**
 - **Bylaws and Rules**
 - **Call for Patents**
 - **IEEE Standards Process**
- **Future Meetings**
- **Reports**
- **Comment Resolution & Presentations**
- **Summary**

10GBASE-T Crew

- **Chair**
 - Brad Booth
- **Editor-in-chief**
 - Sanjay Kasturia
- **Editors:**
 - Eric Lynskey: Auto-negotiation (Clause 28, 55.6)
 - Mike McConnell: MDIO (Clause 45)
 - Jose Tellado: PCS
 - Sandeep Gupta: PMA
 - Terry Cobb: MDI (55.8)
 - Chris Diminico: Channel (55.7)

January Minutes Approval

- **Motion to approve the minutes of the January 2005 Interim meeting (minutes_1_0105.pdf).**
- **M: P. Thaler**
- **S: A. Flatman**
- **Procedural (>50%)**
- **TF: Y: by voice N: A:**
- **PASS**

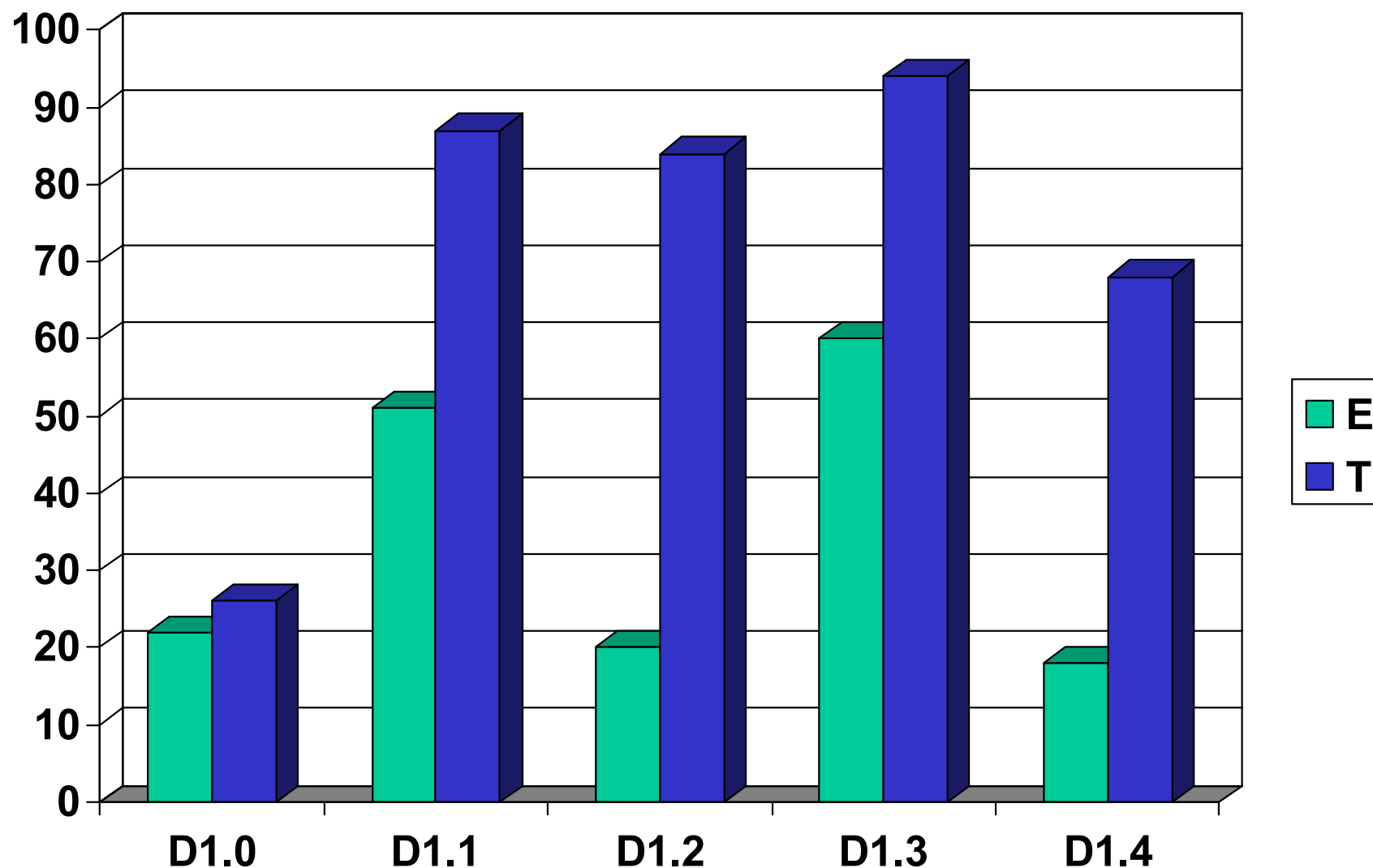
February Minutes Approval

- **Motion to approve the minutes of the February 2005 Interim meeting (minutes_1_0205.pdf).**
- **M: S. Muller**
- **S: P. Thaler**
- **Procedural (>50%)**
- **TF: Y: 32 N: 2 A: 12**
- **PASS**

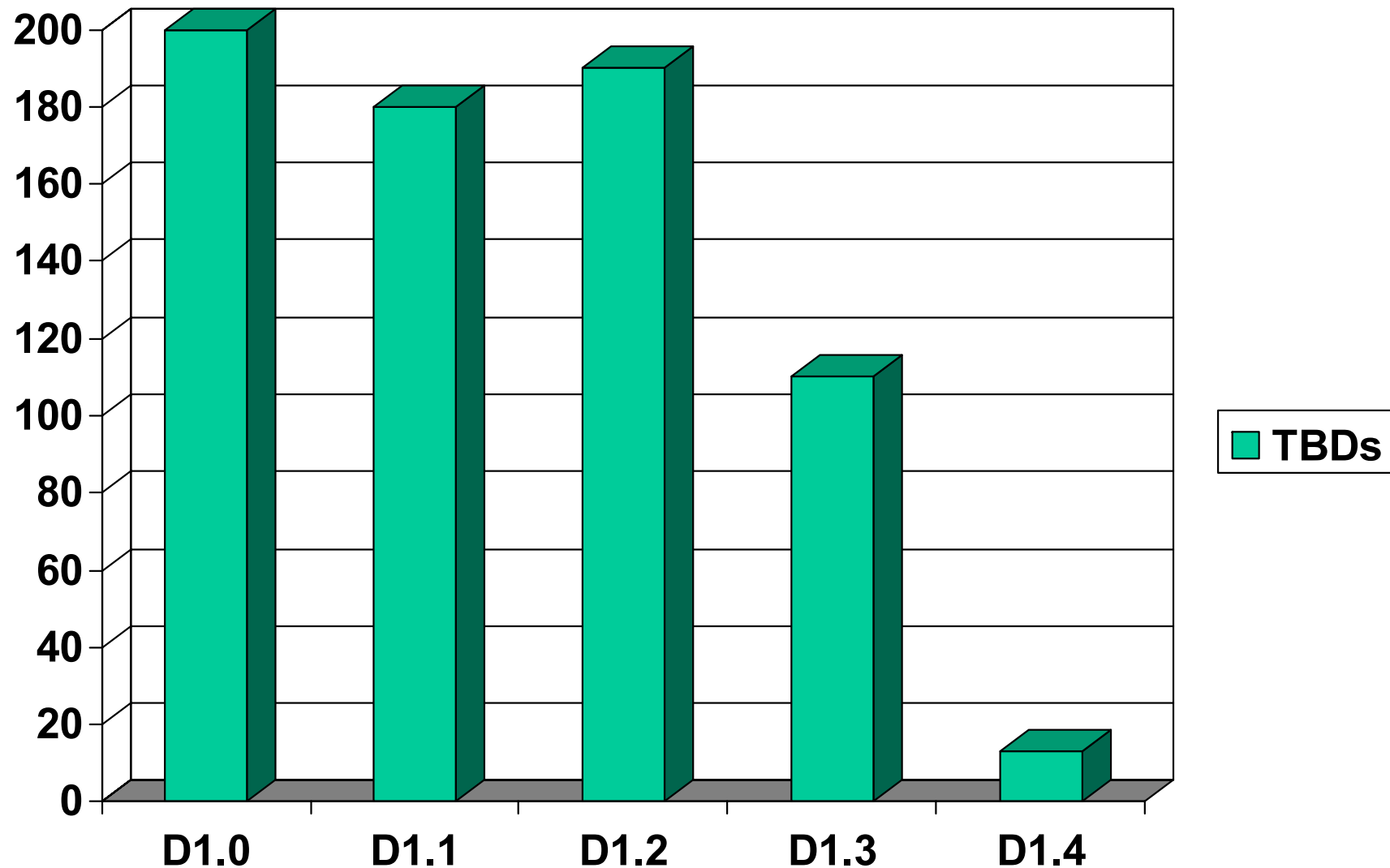
Plans for the Week

- **Close out remaining 13 TBDs**
 - 8 related to the power backoff table
 - 3 related to delay parameters
 - 2 related to margin in timer values
- **Respond to all comments submitted on D1.4**
- **Review (and respond if required) to liaison letters**
 - 1 TIA liaison letter
 - 3 ISO/IEC liaison letters
- **Decision to go to WG ballot**
 - Generate D2.0 compare draft
 - Request going to WG ballot

Comments Totals



TBD Reduction



Reflector and Web

- To subscribe to any of the 10GBASE-T reflectors send an email to:

listserv@ieee.org

with the following in the body of the message:

[subscribe stds-802-3-10GBT <your name>](#)
[end](#)

for example:

[subscribe stds-802-3-10GBT Brad Booth](#)
[end](#)

- P802.3an Task Force web page URL:
<http://www.ieee802.org/3/an/>

Private Area

- **URL:**
 - www.ieee802.org/3/an/private/
- **Access**
 - Userid: 802.3an
 - Password: *****
- **Write it down!!**

Ground Rules

- **802.3 Rules apply**
 - 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-SA Standards Board Bylaws on Patents in Standards

6. Patents

IEEE standards may include the known use of essential patents and patent applications provided the IEEE receives assurance from the patent holder or applicant with respect to patents whose infringement is, or in the case of patent applications, potential future infringement the applicant asserts will be, unavoidable in a compliant implementation of either mandatory or optional portions of the standard [essential patents]. This assurance shall be provided without coercion and prior to approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be a letter that is in the form of either:

- a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement either mandatory or optional portions of the proposed IEEE standard against any person or entity complying with the standard; or
- b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.

This assurance shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal and is irrevocable during that period.

Approved by IEEE-SA Standards Board – March 2003 (Revised December 2004)

Inappropriate Topics for IEEE WG Meetings

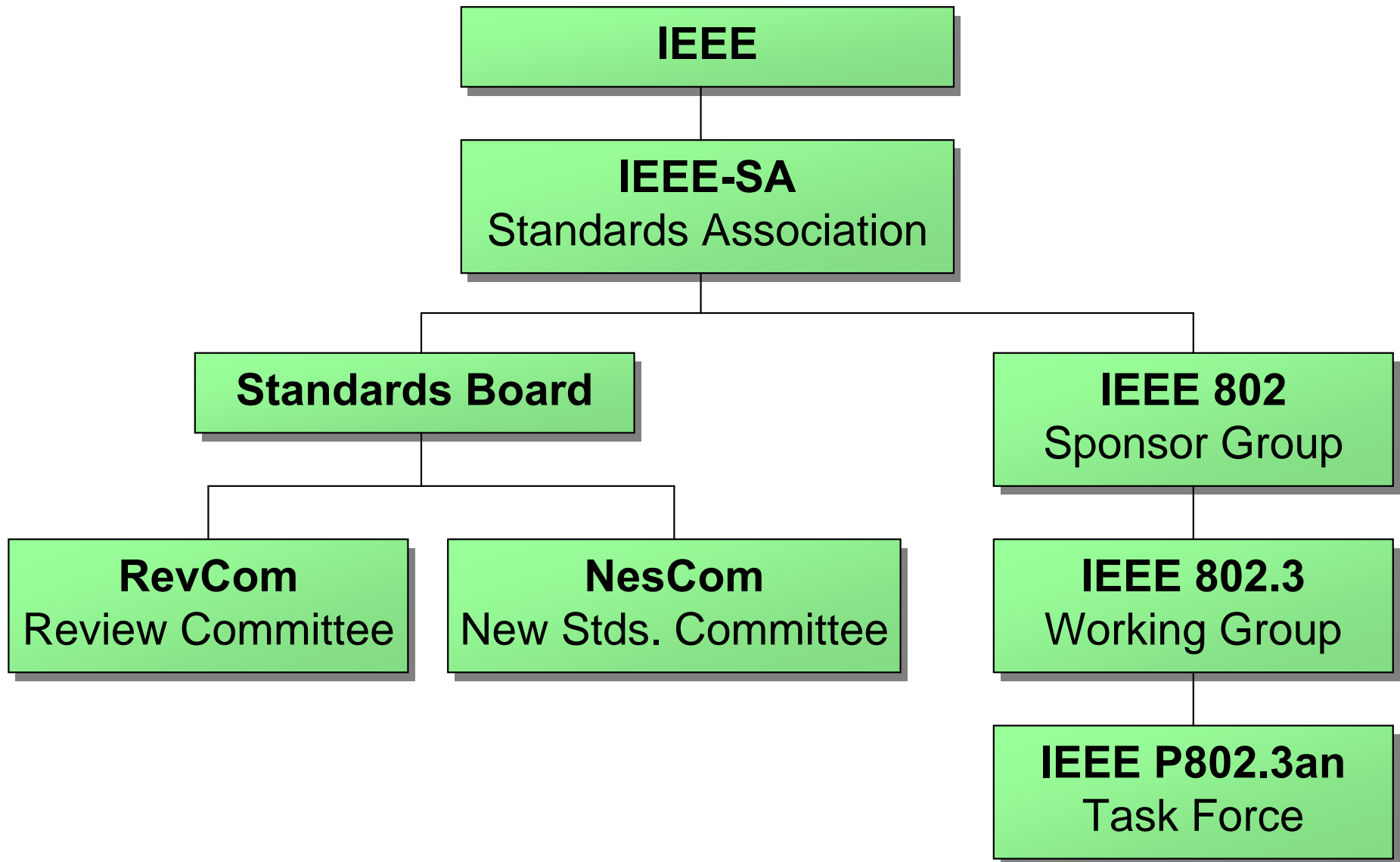
- **Don't discuss licensing terms or conditions**
- **Don't discuss product pricing, territorial restrictions, or market share**
- **Don't discuss ongoing litigation or threatened litigation**
- **Don't be silent if inappropriate topics are discussed... do formally object.**

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

This slide set is available at
<http://standards.ieee.org/board/pat/pat-slideset.ppt>

Approved by IEEE-SA Standards Board – March 2003 (Revised December 2004)

IEEE Structure



Bylaws and Rules

- **Bylaws of the IEEE Standards Association (IEEE-SA):**

<http://standards.ieee.org/sa/sa-bylaws.pdf>

- **Bylaws of the IEEE-SA Standards Board:**

<http://standards.ieee.org/guides/bylaws/sb-bylaws.pdf>

- **IEEE LAN/MAN Standards Committee (LMSC) Operating Rules:**

<http://www.ieee802.org/rules.pdf>

- **IEEE 802.3 Working Group Operating Rules:**

<http://www.ieee802.org/3/rules/>

IEEE 802.3 Requirements for WG Ballot

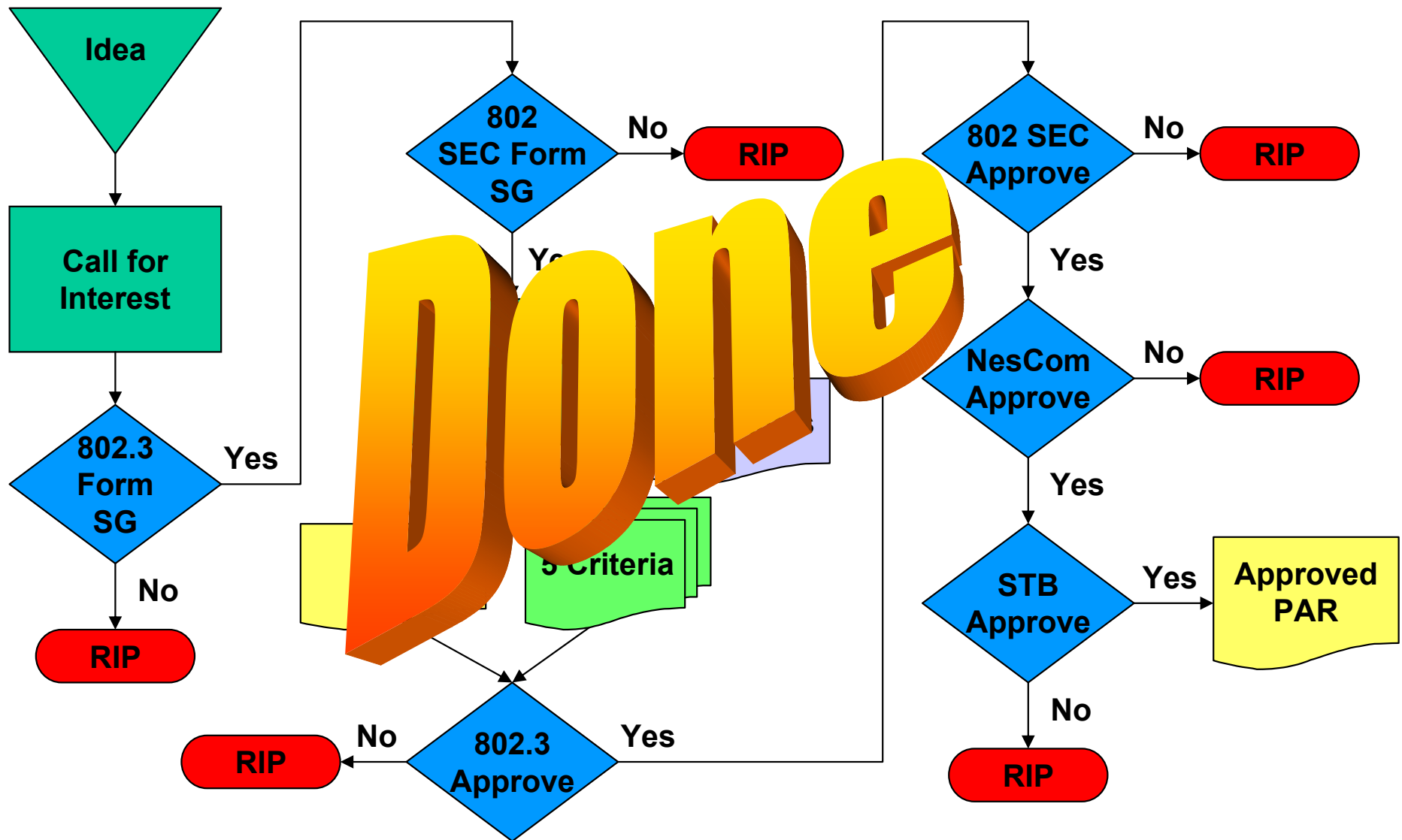
“2.8.2 Draft Standard Balloting Requirements

Before a draft is submitted to WG letter ballot it shall in addition have met the following requirements:

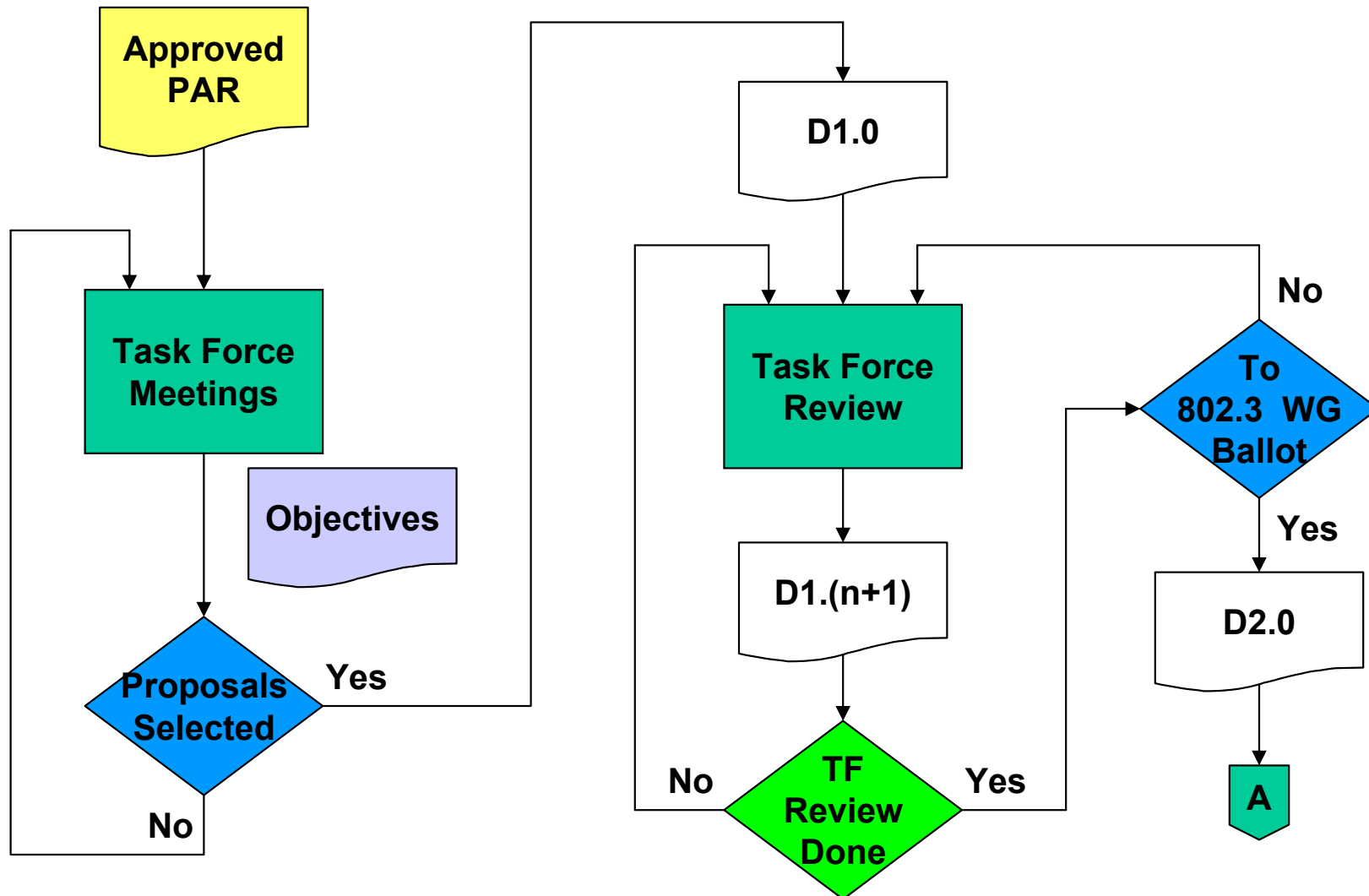
- a) It must be complete with no open technical issues.
- b) It must be made available for pre-view by the membership by the Monday prior to the plenary week. **If any changes are made to the draft after the draft was made available for pre-view the textual changes shall be presented for review during the closing plenary immediately prior to the vote for approval to go to WG ballot.**
- c) It must be formatted according to the IEEE style selected by the WG Chair. This style will be selected to minimize the editorial work required for publication of the draft.
- d) It must be approved for submittal to WG ballot at the 802.3 WG closing plenary.”

IEEE 802.3aq TASK FORCE, ATLANTA, GEORGIA 15 – 17 MARCH 2005

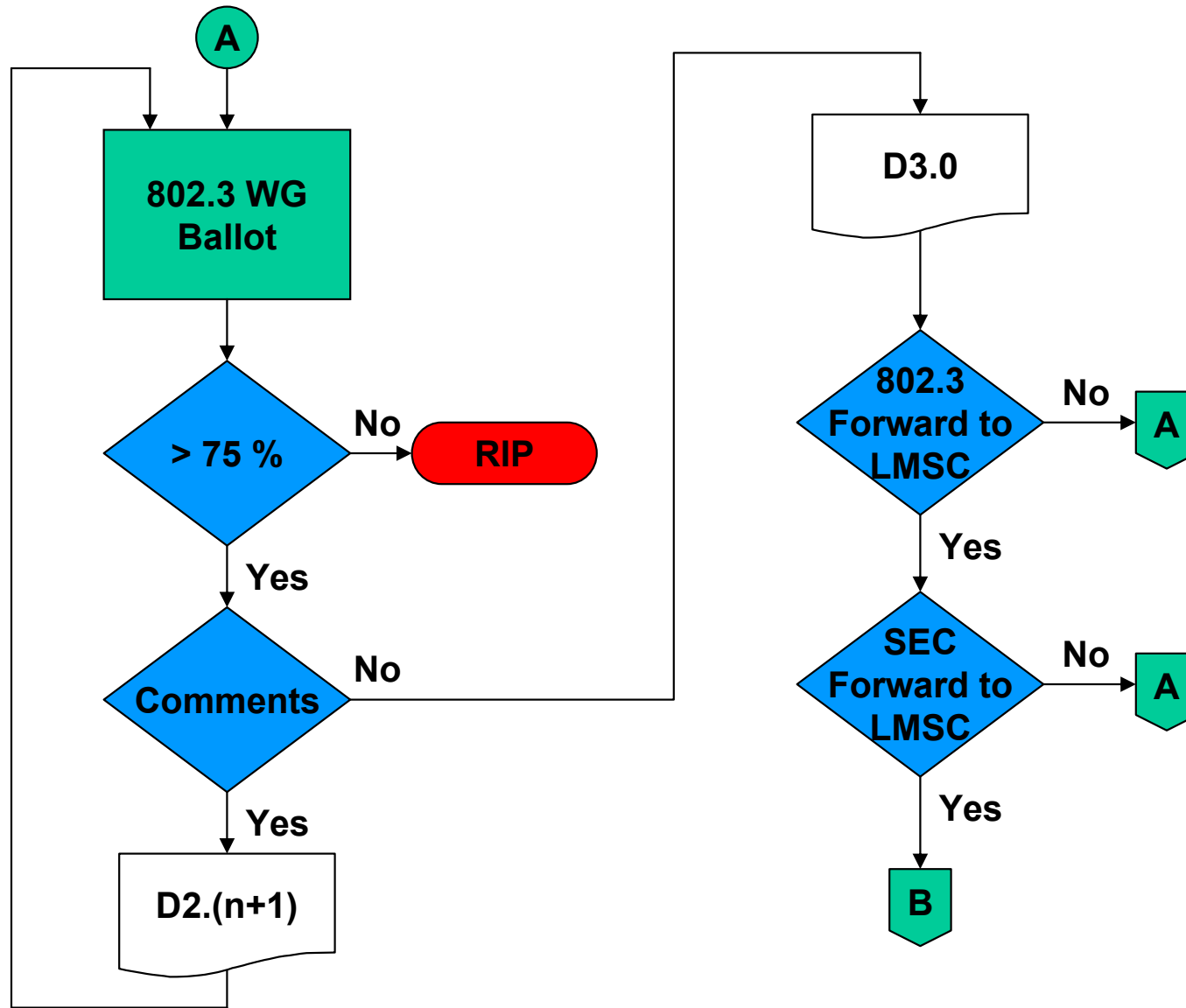
IEEE Standards Process



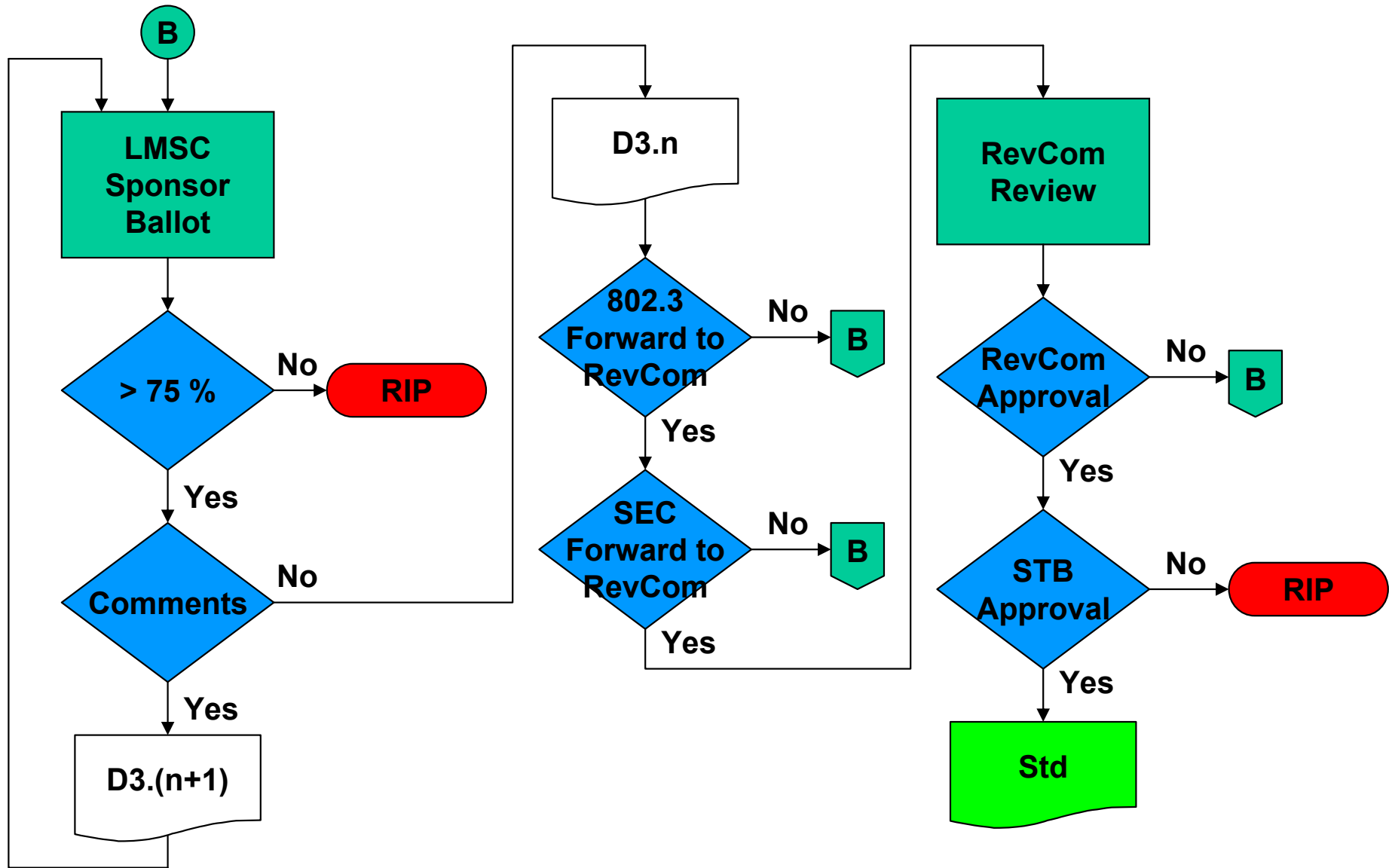
IEEE Standards Process (cont.)



IEEE Standards Process (cont.)



IEEE Standards Process (cont.)



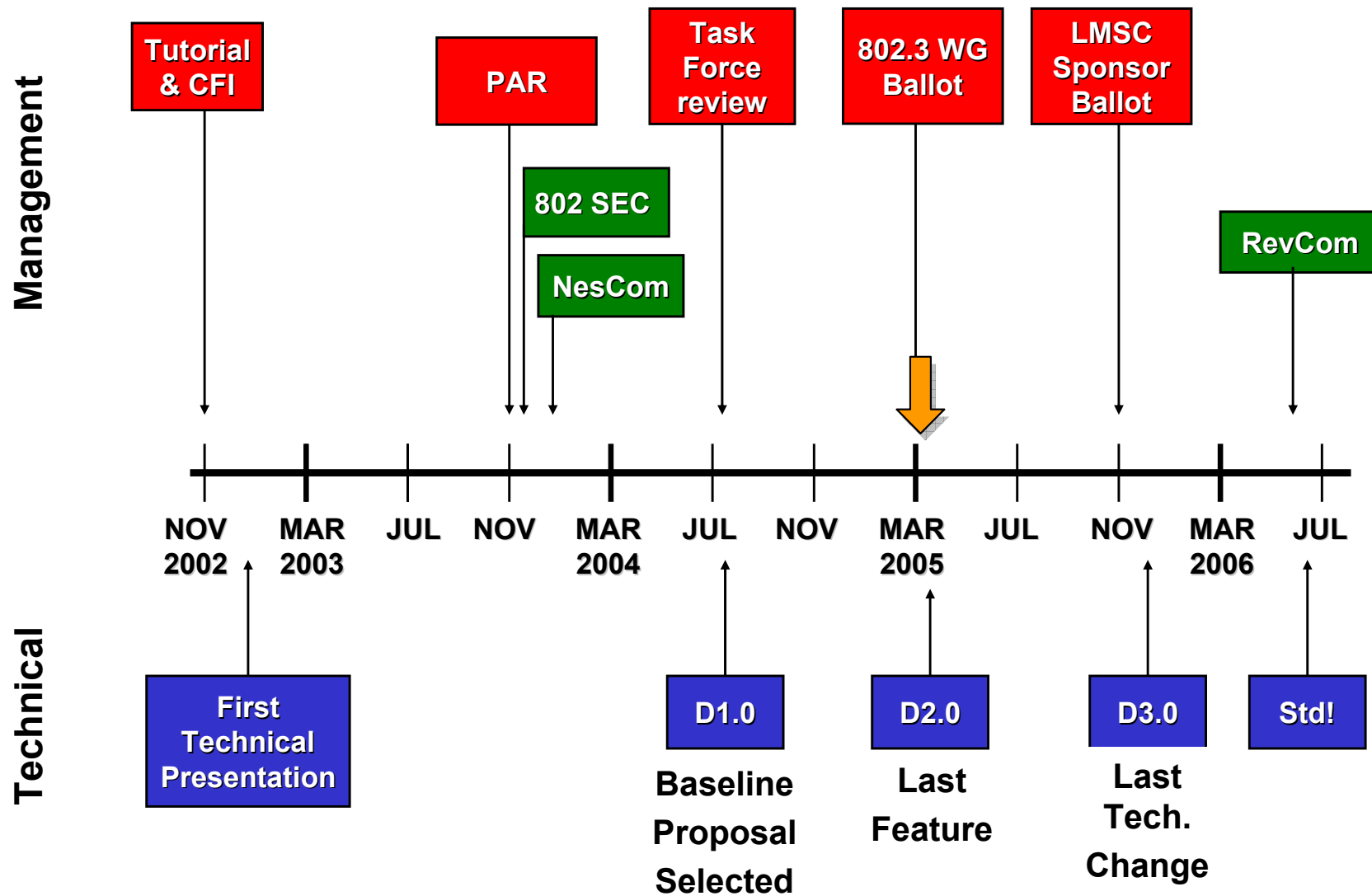
P802.3an Objectives

- **Preserve the 802.3/Ethernet frame format at the MAC Client service interface**
- **Preserve min. and max. frame size of current 802.3 Std.**
- **Support full duplex operation only**
- **Support star-wired local area networks using point-to-point links and structured cabling topologies**
- **Support a speed of 10.000 Gb/s at the MAC/PLS service interface**
- **Select copper media from ISO/IEC 11801:2002, with any appropriate augmentation to be developed through work of 802.3 in conjunction with SC25/WG3**
- **Support Clause 28 auto-negotiation**
- **Support coexistence with 802.3af**
- **To not support 802.3ah (EFM) OAM unidirectional operation**
- **Meet CISPR/FCC Class A**

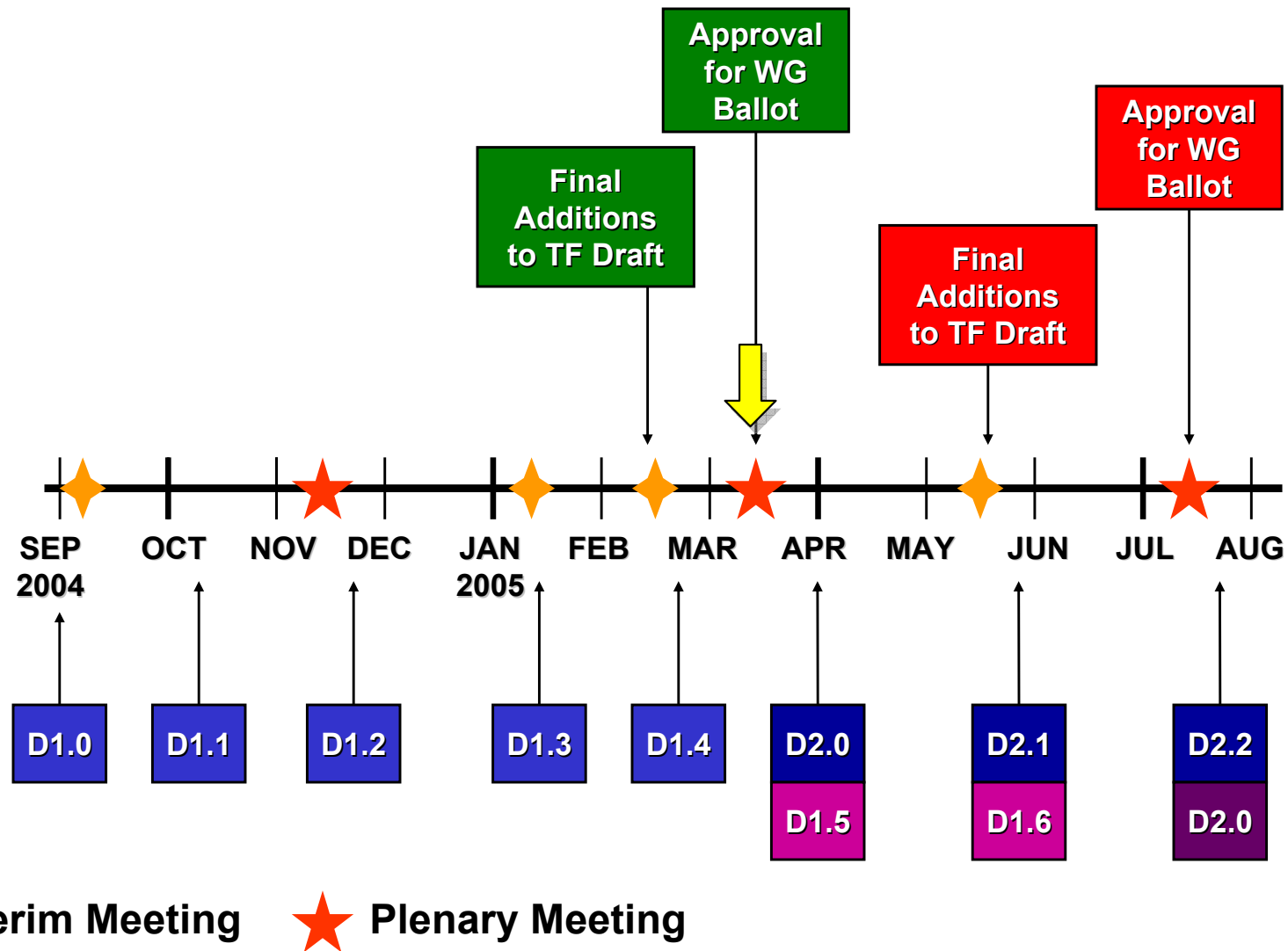
P802.3an Objectives (cont.)

- **Support operation over 4-conductor structured 4-pair, twisted-pair copper cabling for all supported distances and Classes**
- **Define a single 10 Gb/s PHY that would support links of:**
 - **At least 100 m on four-pair Class F balanced copper cabling**
 - **At least 55 m to 100 m on four-pair Class E balanced copper cabling**
- **Support a BER of 10^{-12} on all supported distances and Classes**

P802.3an Timeline



P802.3an Timeline Magnified



Future Meetings

- **May 2005 Interim:**
 - **Date:** Week of May 16th
 - **Location:** Austin, TX
 - **Hotel:** Crowne Plaza
- **July 2005 Plenary:**
 - **Date:** Week of the 18th
 - **Location:** San Francisco, CA
 - **Hotel:** Hyatt Regency Embarcadero
- **September 2005 Interim:**
 - **Date:** TBD
 - **Location:** Madrid, Spain (current offer)
 - **Hotel:** TBD

Reports

- **Liaison from ISO/IEC JTC 1 / SG 25 / WG 3**
 - Three liaison letters since last Plenary
- **Liaison from TIA TR42**
 - One liaison letter since last Plenary
- **Editor's report**
 - How did we do on D1.4?

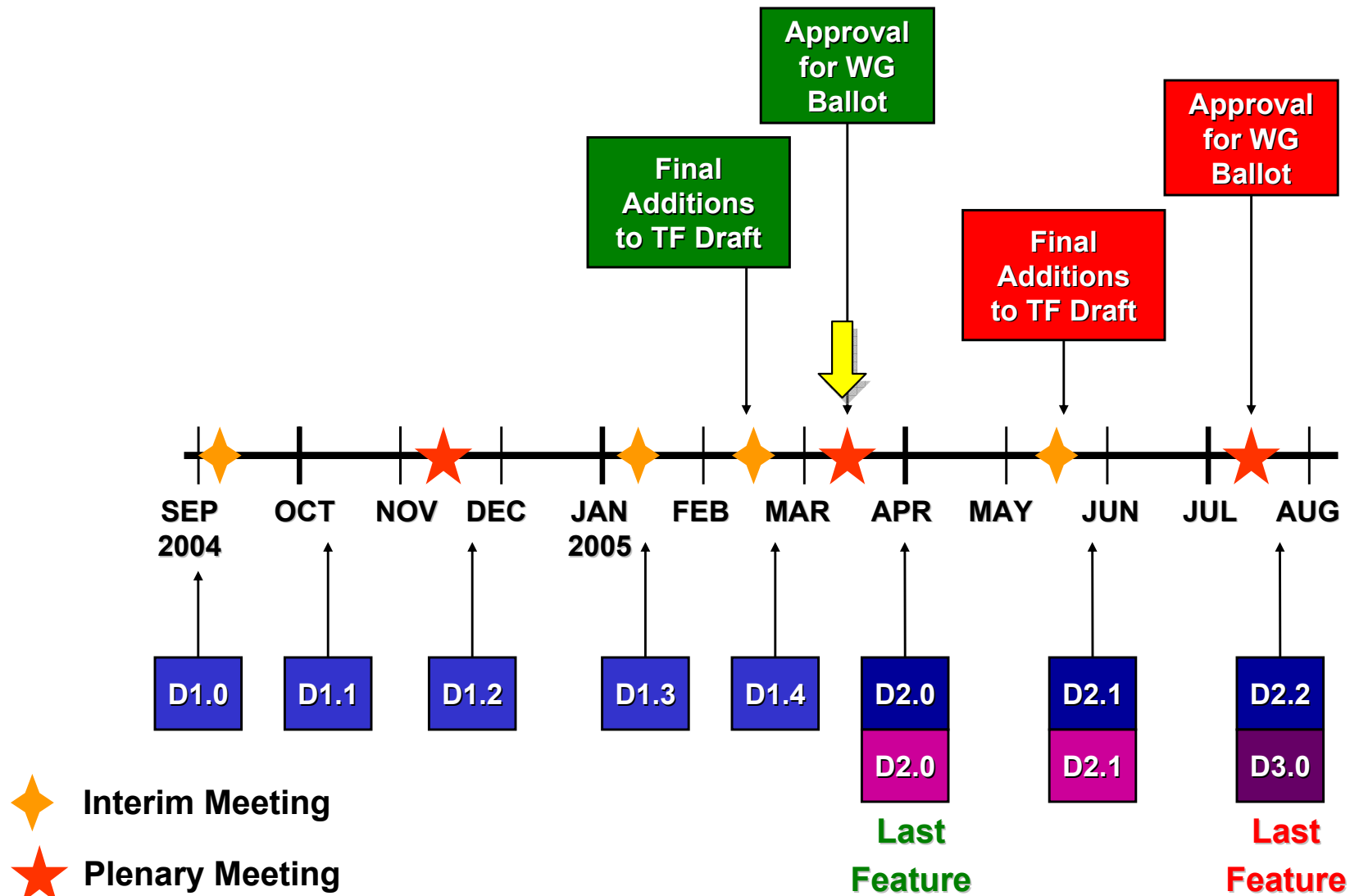
Comment Resolution & Presentations

Motions & Straw Polls

Editorial Comments Motion

- **Move that the Task Force grant editorial license to the P802.3an editors to respond to unresolved editorial comments as they see fit.**
- **M: J. Tellado**
- **S: A. Flatman**
- **Technical ($\geq 75\%$)**
- **TF: Y: by voice N: A:**
- **PASS**

P802.3an Timeline Magnified



Straw Poll

- **Does any Task Force member plan to add a new technical feature in the next 4 months?**
 - Y:
 - N:
- **Will technical changes be made to the draft for at least the 12 months?**
 - Y:
 - N:

Straw Poll

- **With no new technical features to be added and only technical changes to be made, should the TF go to WG ballot**
 - Y:
 - N:

D2.0 Motion

- **Move that Draft 1.4 plus the resolution of comments to Draft 1.4 be used as the basis for the generation of Draft 2.0.**
- **M: B. Woodruff**
- **S: J. Tellado**
- **Technical ($\geq 75\%$)**
- **TF: Y: 37 N: 0 A: 7**
- **802.3: Y: 31 N: 0 A: 4**
- **PASS**

WG Ballot Motion

- **Move that the TF request that 802.3 circulate IEEE P802.3an Draft 2.0 for 802.3 Working Group ballot and comment, and conduct recirculations as necessary.**
- **M: G. Eisler**
- **S: J. Tellado**
- **Technical ($\geq 75\%$)**
- **TF: Y: 31 N: 11 A: 3**
- **802.3: Y: 28 N: 9 A: 1**
- **FAIL**

Straw Poll

- **TF request that 802.3 circulate IEEE P802.3an Draft 2.0 for 802.3 Working Group ballot and comment, and conduct recirculations as necessary.**
- **By company: Y: 22 N: 5 A: 2**

TIA Liaison Letter Motion

- Move that the Task Force approve the tia_1_0305 liaison letter.
- M: G. Zimmerman
- S: A. Flatman
- Technical ($\geq 75\%$)
- TF: Y: by voice N: A:
- PASS

ISO/IEC Liaison Letter Motion

- Move that the Task Force approve the iso_1_0305 liaison letter.
- M: G. Eisler
- S: C. Diminico
- Technical ($\geq 75\%$)
- TF: Y: by voice N: A:
- PASS

Liaison Letters

- **Move that TF request that 802.3 approve and forward the two liaison letters, with appropriate edits by the Chair (or his appointed agent), to TIA TR-42 and ISO/IEC 11801 JTC 1/SC 25/WG 3.**
 - **TIA TR42: tia_1_0305**
 - **ISO/IEC: iso_1_0305**
- **M: G. Zimmerman**
- **S: P. Kish**
- **Technical ($\geq 75\%$)**
- **TF: Y: by voice N: A:**
- **PASS**

Adjourn

- Move to adjourn.
- M: J. Jover
- S: A. Flatman
- Procedural (>50%)
- TF: Y: by voice N: A:
- PASS

Thank You!