

PoEPlus Big Ticket Items, Progress...

Buckmeier, Brian – Bellfuse

Carlson, Steve – High Speed Design

Cullinan, Diarmuid – Molex

Darshan, Yair – Microsemi

Diab, Wael – Broadcom

DiMinico, Chris – MC Communications

Dove, Dan – ProCurve Networking by HP

Flatman, Alan – LAN Technologies

Jetzt, John – Avaya

Landry, Matt – Silicon Labs

Law, David – 3COM

McCormack, Mike – TI

Schindler, Fred – Cisco

Stanford, Clay – Linear Technology

Other supporters welcome

Agenda

Review progress-to-date

Where the Task Force is in the process

Review a list of “Big Ticket Items”

Is there anything we need to
add/remove/change

List accepted by group

Recommendations –

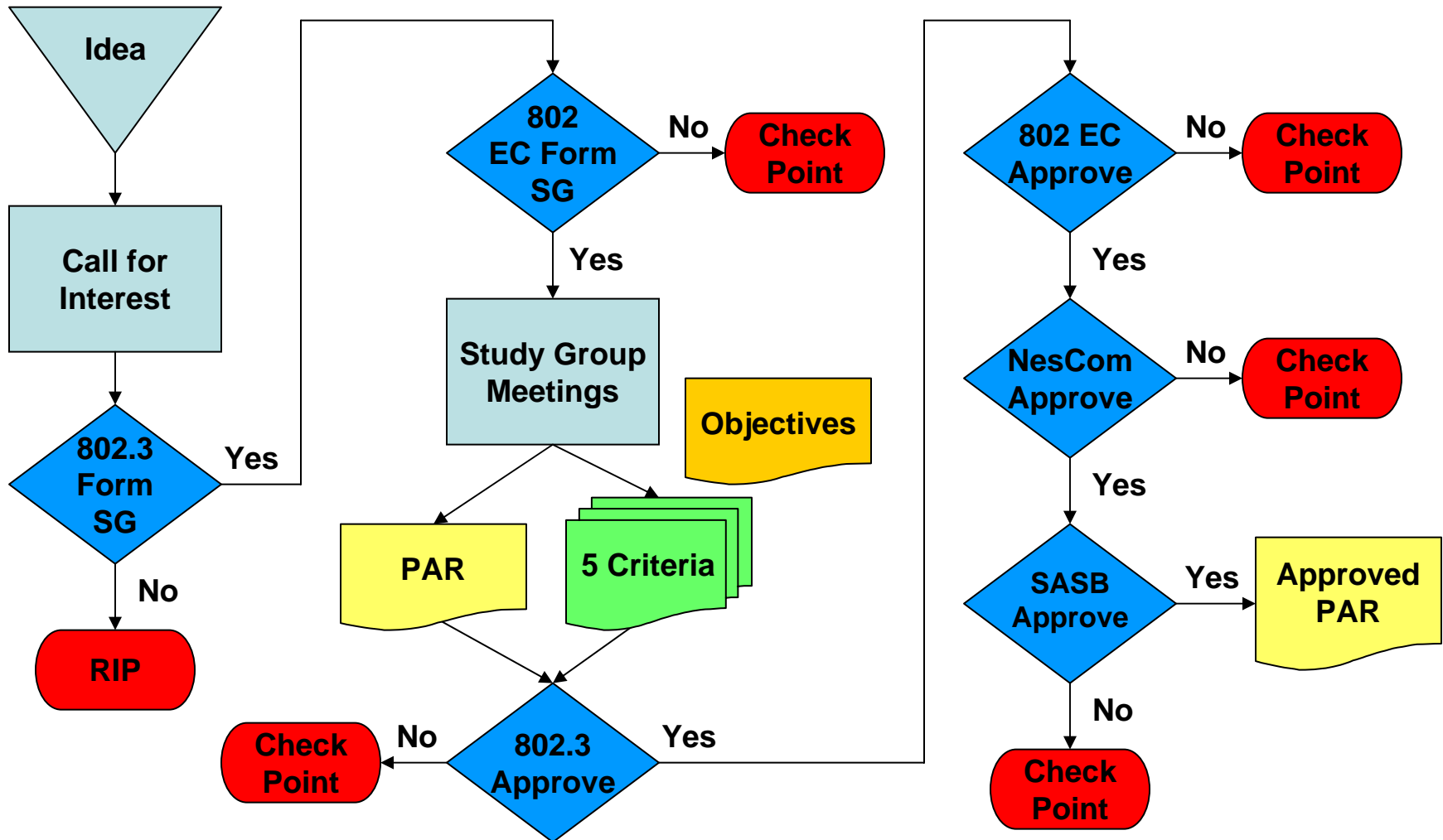
Moving forward more efficiently

Progress To-Date

- So far
 - CFI Nov 2004
 - **PAR approved Sep 2005**
 - After almost 3 years of work we only have D0.2 ☹
- Constraints
 - 14 Objectives
 - **PAR runs out Dec 2009**
- What does this mean
 - Process wise we have to get a move on
 - **Similar projects** have required 1 – 1.5 years for WG/EC ballot
 - **802.3af** took ~ 3 years from first draft to ratification
 - Practically, we don't want to lose steam in the market place
 - Bottom line: We are behind schedule!
- Other considerations
 - Take into account **timetables** of other SDOs (Standards Development Orgs)
 - Take into account **procedural timetables** such as Plenaries/Std's Brd
- Lets take a look at schedules, deliverables pictorially

Overview of IEEE 802.3 Standards Process (1/5)

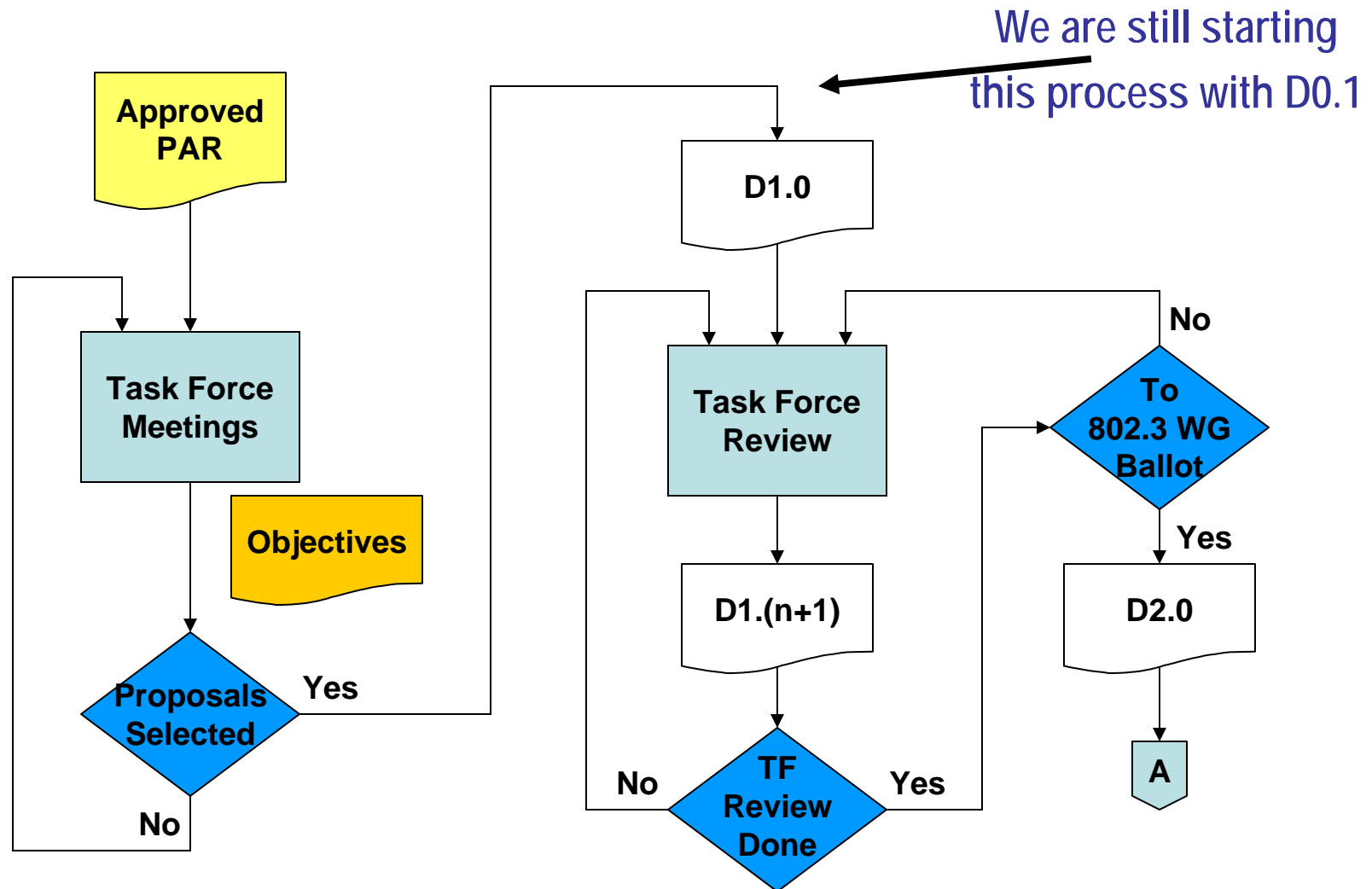
Study Group Phase



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

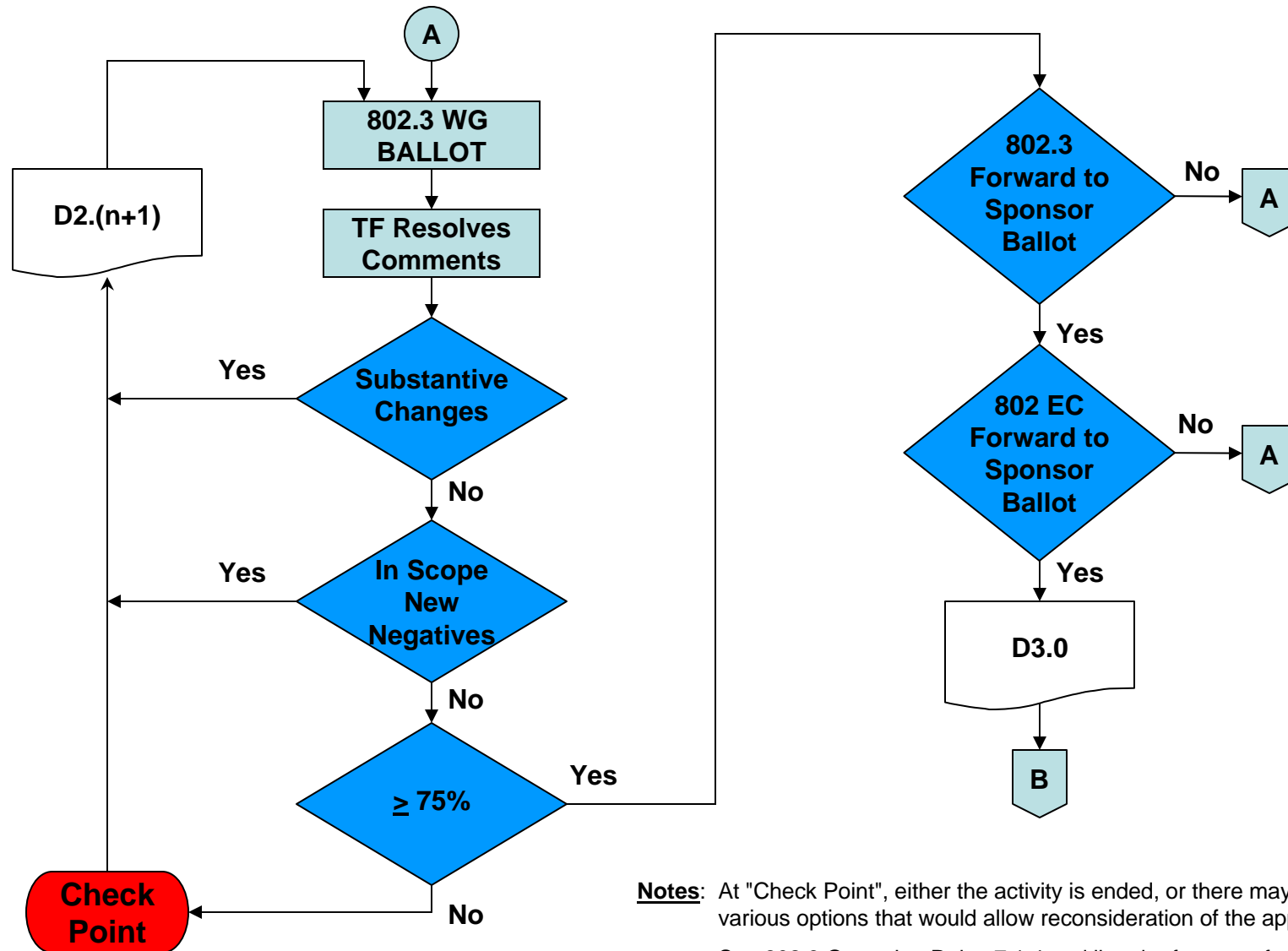
Overview of IEEE 802.3 Standards Process (2/5)

Task Force Comment Phase



Overview of IEEE 802.3 Standards Process (3/5)

Working Group Ballot Phase

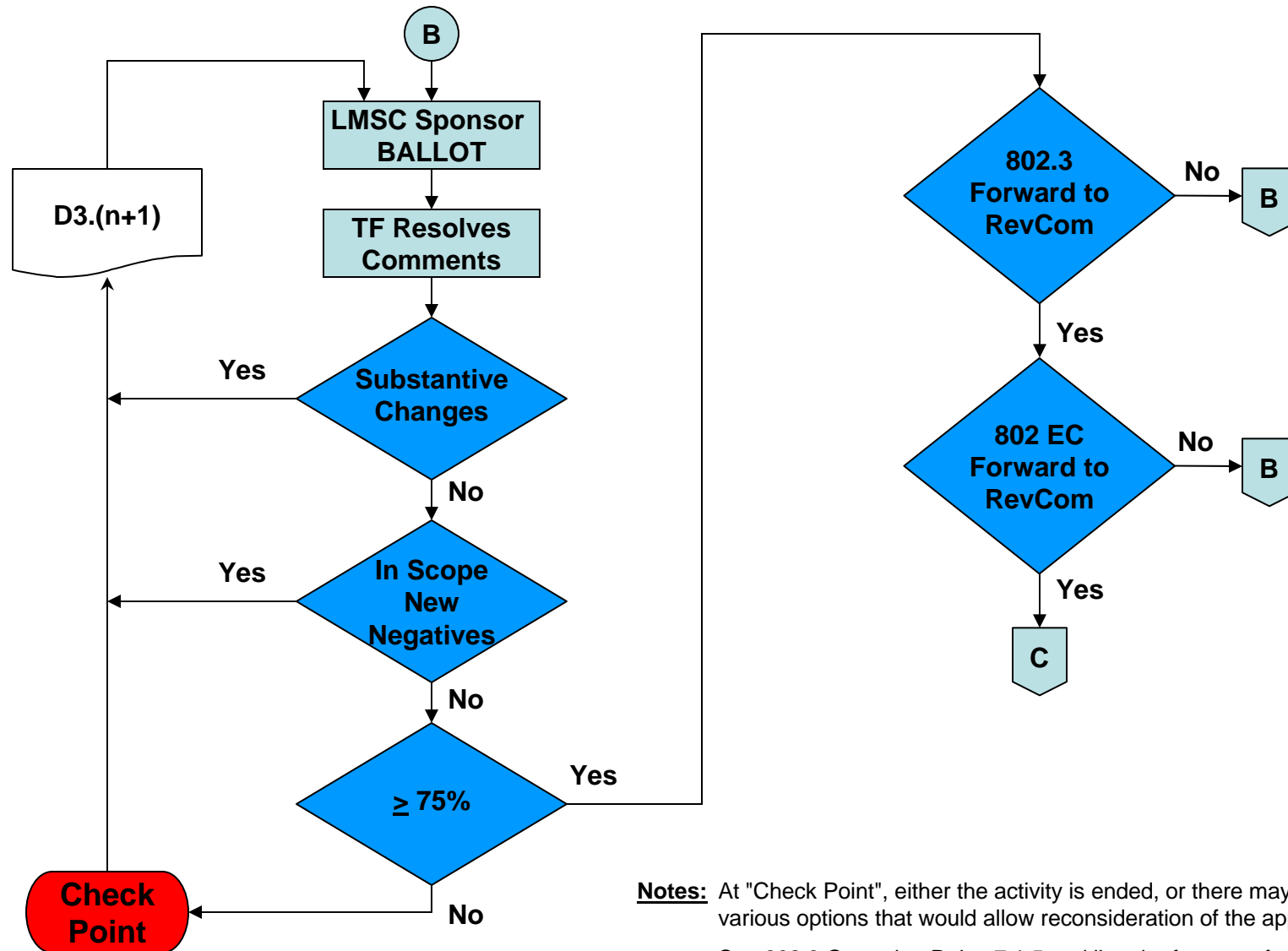


Notes: At "Check Point", either the activity is ended, or there may be various options that would allow reconsideration of the approval.

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

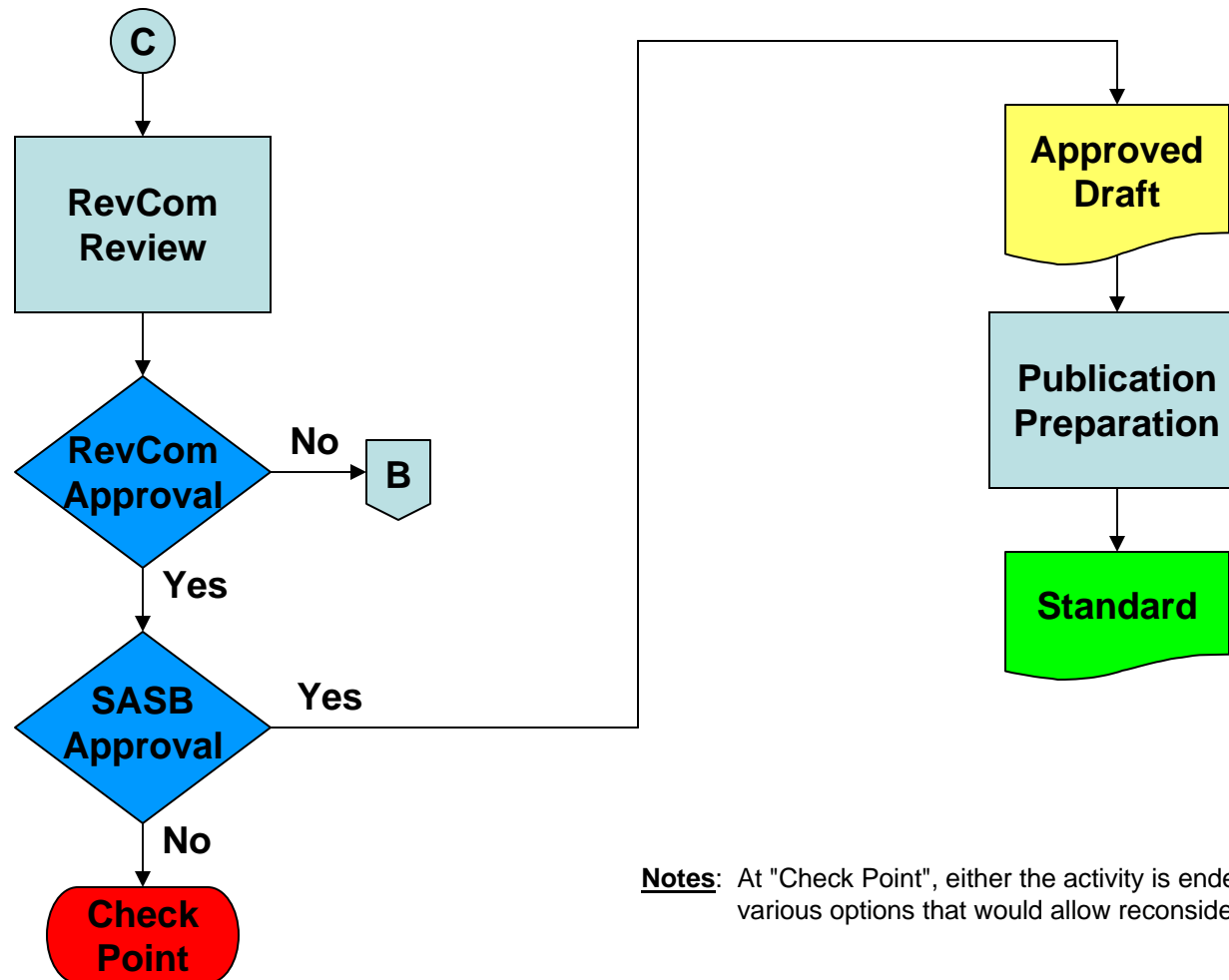


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See 802.3 Operating Rules 7.1.5 and listed references for complete description

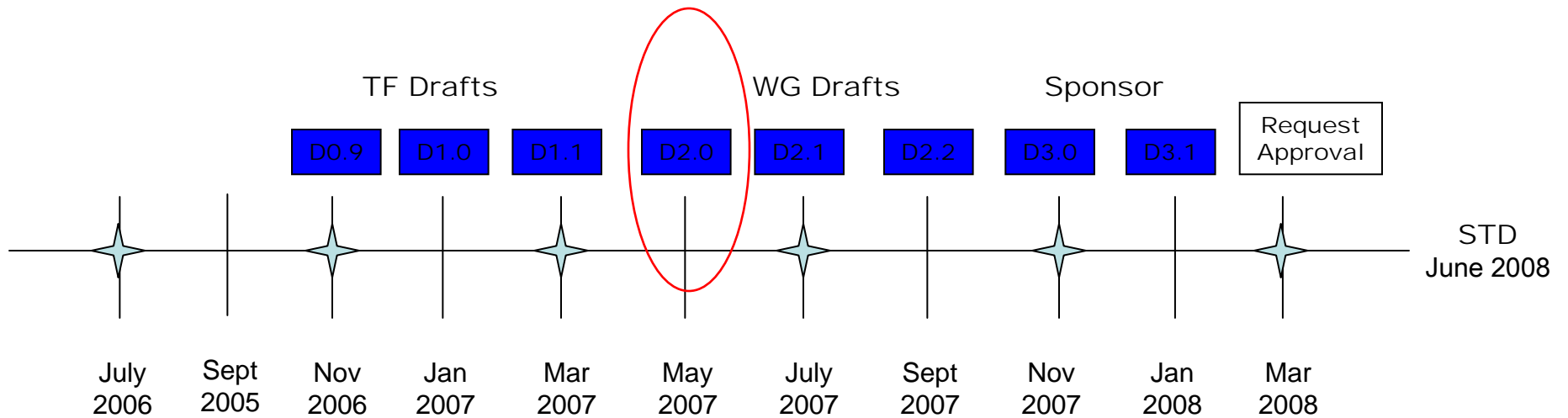
Overview of IEEE 802.3 Standards Process (5/5)

Final Approvals and Standard Release



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

Timeline



Adopted by the Task Force
Vote: 41/2/0.

ALREADY >2 MTGS (~1 YR+) DELAYED!

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Moving forward more efficiently

Proposed List Coming into 0507 Meeting

“Big Ticket” Items for 802.3at

- Based on objectives and supporting material
- Baselines
 - Classification, Power, Current
 - Dynamic Voltage and Current
 - Others??
- Continued work on L2 mechanism
 - Work with 802.1
 - TLVs in 802.3
 - State machines in 802.3
- Types supported by .3at
 - Agreement on the definition of types supported
 - Document structure
- Liaison with other SDOs
- Cabling
 - Heating data
 - Connectors
 - Safety

“Big Ticket” Items for 802.3at

- Magnetics
 - Current limits and feasibility
 - Imbalance
 - Specification
- Gigabit Midspans
- 10GBASE-T operation: Midspan & Endspan Investigation
- Document structure
 - Maintenance vs. .3af enhancements vs. New Material
- Management
- Editorial Items such as
 - PICs
 - State machines

Did we miss anything?

Accepted List After Discussion in 0507 Meeting

Introduction

- Key
 - Color Key
 - Grey=Completed
 - Black=Ongoing
 - Red=Needs attention
 - Names
 - Indicate task leader
 - Task leaders responsible for organizing ad-hoc meetings
 - Task leaders responsible for reporting back to Task Force
 - Task leaders responsible for announcing ad-hocs
- Document to be reviewed and updated on an ongoing basis

“Big Ticket” Items for 802.3at

- **Baselines**
 - L1 Classification – Clay
 - L2 Classification – Fred/Wael
 - Power/Current
 - Dynamic Voltage and Current – Fred Schindler
 - Gigabit Midspans – Yair Darshan
- **Additional L1 Classification work**
 - State Diagrams
 - PD – Clay Stanford
 - PSE – Clay Stanford
- **Continued work on L2 Classification mechanism**
 - Check on 802.1 status – Mike McCormack
 - TLVs in 802.3 – Ramesh Sastry
 - State machines in 802.3 – Ramesh Sastry

“Big Ticket” Items for 802.3at

- Liaison with other SDOs – Wael Diab
(SDO = Standard Development Organization)
- **Cabling – waiting on above**
 - Heating data
 - Connectors
 - Safety
- Gigabit Midspans – Yair Darshan
 - Channel Model
- Types supported by .3at
 - Agreement on the definition of types supported
 - Document structure
- Editorial Items
 - PICs – Gerry Nadeau
 - State diagram review – Bob Grow

“Big Ticket” Items for 802.3at

- Management outside of Layer 2 – David Law
- Magnetics – Mike McCormack
 - Current limits and feasibility (technical and economic)
 - Sensitivity analysis
 - Imbalance
 - Specification
 - Can we remove 350 uH requirement – Mike McCormack
(Requires change to .3 outside of current 802.3at scope)
- Document structure – Matt Landry
 - Maintenance vs. .3af enhancements vs. New Material

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Recommendations

- Three key areas to address
 - Do work in *between* meetings
 - Get into draft review mode
 - During meetings
- Work in between meetings
 - Conference calls/ad-hocs to address outstanding comments/key work areas
 - Bring in consensus presentations to address Big Ticket Items
 - Prepare suggested text for editor to incorporate based on baselines adopted
 - Examples of success: L1 Class and Vport ad-hocs
- Get into draft review mode
 - Formally track comments
 - Tool/draft 30 days ahead of meeting. Allows for better prep coming in
 - Gives a sense of progress/time management during the meeting
 - Practice, practice, practice for WG ballot
 - Examples of successes: D0.1
 - Examples of areas to look at: D0.9

Recommendations

- **During meetings**

- Use time to make decisions, review comments
- Take better advantage of the time the TF meets as a whole
- Setup ad hocs to move key areas forward
- Examples of successes: Classification Baseline & Ad-hoc Reports, Liaison Ad-Hoc, Maintenance items in January

- **Editor ad hoc as an example**

- Used to discuss how to show Legacy material vs. Maintenance changes vs. 802.3af enhancements vs. New Material
- Meet as an ad hoc to allow .3at to focus on technical discussion
- Approve/modify recommendations on structure with .3at

- **Other areas**

- Consider timeline of other SDOs in our preparation
- Regular update of meeting minutes and motion aggregator
- Regular update of project timeline
- Review Big Ticket Item list at every plenary and interim meeting