# IEEE 802.3 Maintenance

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Atlanta, GA

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# Agenda

- Maintenance Request Status
- IEEE 802.3ax Link Aggregation
  - IEEE P802.1AX
- IEEE 802.3ay Maintenance #9 (Revision)
  - IEEE P802.3REV
  - Mandatory Editorial Coordination (MEC)
- IEEE Std 1802.3-2001 reaffirmation
- IEEE 802.3 maintenance reflector
- IEEE 802.3 maintenance web site

# Maintenance Request Status

- 35 Open Maintenance requests
- 1 New requests since July
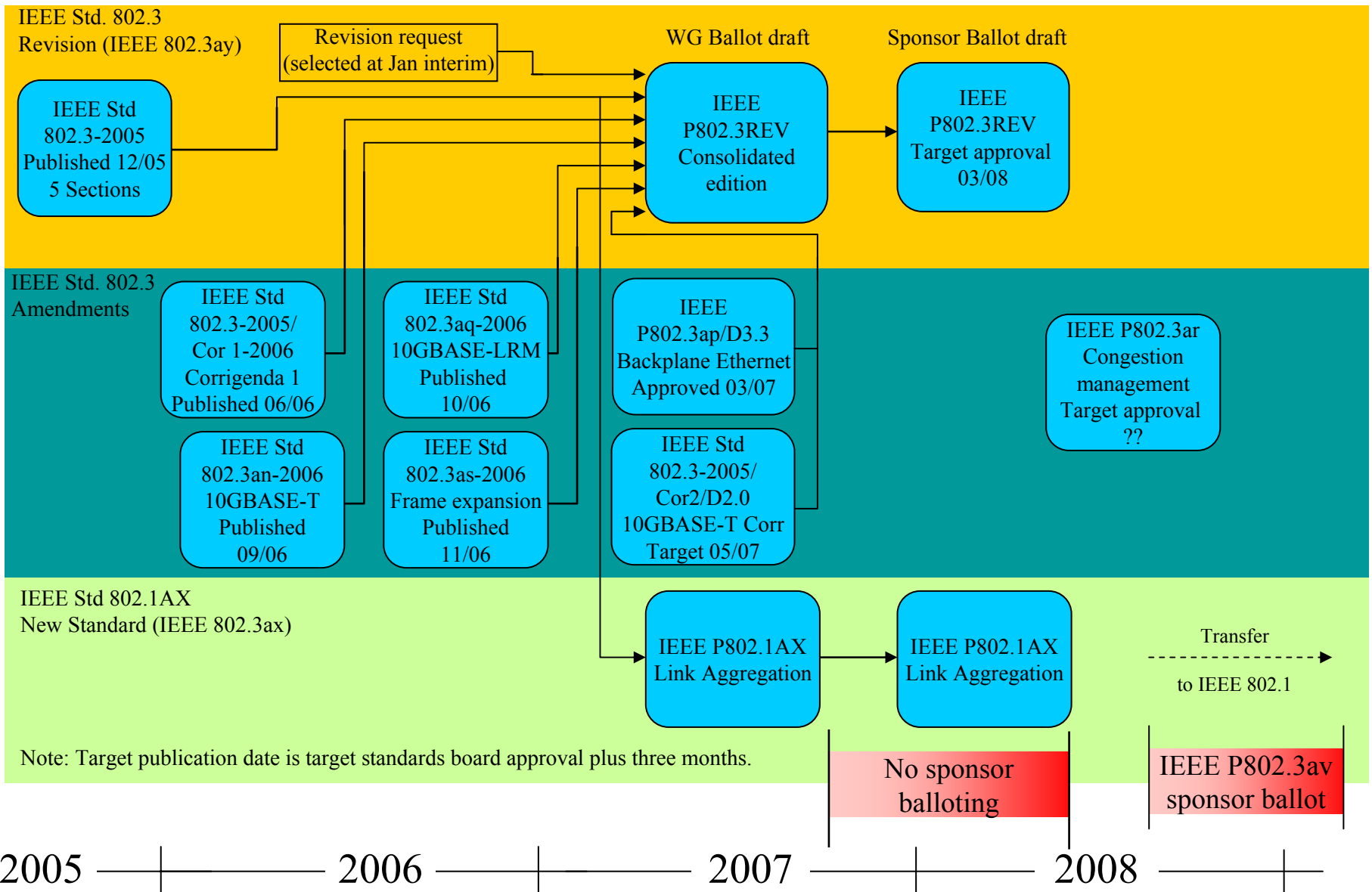  - Receive local fault bit (4.8.10)
- Current status of open requests:

| | |
|---|---|
| Balloting | 20 |
| Ready for ballot | 10 |
| Awaiting clarification | 0 |
| To be categorised | 5 |

Notes:
All 'Balloting' requests included in IEEE 802.3ax draft
All 'Ready for Ballot' assigned to IEEE P802.3at

# IEEE Std 802.3 revision

# IEEE Std 802.3 revision plan

**IEEE Std. 802.3 Revision (IEEE 802.3ay)**

Revision request (selected at Jan interim)

WG Ballot draft

Sponsor Ballot draft

IEEE Std 802.3-2005 Published 12/05 5 Sections

IEEE P802.3REV Consolidated edition

IEEE P802.3REV Target approval 03/08

**IEEE Std. 802.3 Amendments**

IEEE Std 802.3-2005/ Cor 1-2006 Corrigenda 1 Published 06/06

IEEE Std 802.3aq-2006 10GBASE-LRM Published 10/06

IEEE P802.3ap/D3.3 Backplane Ethernet Approved 03/07

IEEE P802.3ar Congestion management Target approval ??

IEEE Std 802.3an-2006 10GBASE-T Published 09/06

IEEE Std 802.3as-2006 Frame expansion Published 11/06

IEEE Std 802.3-2005/ Cor2/D2.0 10GBASE-T Corr Target 05/07

**IEEE Std 802.1AX New Standard (IEEE 802.3ax)**

IEEE P802.1AX Link Aggregation

IEEE P802.1AX Link Aggregation

Transfer

to IEEE 802.1

Note: Target publication date is target standards board approval plus three months.

No sponsor balloting

IEEE P802.3av sponsor ballot

2005 —— | —— 2006 —— | —— 2007 —— | —— 2008 —— | ——

# IEEE Std 802.3 revision timeline

Timeline

| | | | |
|---|---|---|---|
| Revision request selection | 17th | Jan | 2007 |
| Draft D0.9 drafts precirculated | 5th | Mar | 2007 |
| PARs approval# | 22nd | Mar | 2007 |
| D1.0 Working Group ballot | 23rd | Mar | 2007 |
| D1.0 Comment resolution | 28th | May | 2007 |
| D1.1 Working Group ballot recirculation | 29th | Jun | 2007 |
| D1.1 Comment resolution | 18th | Jul | 2007 |
| D1.2 Working Group ballot recirculation | 23rd | Aug | 2007 |
| D1.2 Comment resolution | 10th | Sep | 2007 |
| D1.3 Working Group ballot recirculation | 1st | Oct | 2007 |
| D1.3 Comment resolution | 17th | Oct | 2007 |
| D2.0 Sponsor Ballot | 2nd | Nov | 2007 |
| D2.0 Sponsor ballot close | 7th | Dec | 2007 |
| D2.0 Comment resolution | | Jan | 2008 |
| D2.1 Sponsor ballot recirculation | | Feb | 2008 |
| D2.1 Comment resolution | | Mar | 2008 |
| RevCom submittal approval (conditional if required) | | Mar | 2008 |
| D2.2 Sponsor ballot recirculation* | | Mar | 2008 |
| D2.2 Comment resolution* | | Apr | 2008 |
| RevCom submittal# | 2nd | May | 2008 |
| Standards board approval# | 12th | Jun | 2008 |

# Externally determined dates
* Recirculation if required

# IEEE 802.3ax (IEEE P802.1AX)
# Link Aggregation Task Force

# IEEE 802.3ax (IEEE P802.1AX) Working Group ballot results

- 2nd (D1.2) Working Group recirculation ballot
  – Ballot opened 23rd August 2007, closed 7th September 2007

| Comments received: 8 | # | % | | Status |
|---|---|---|---|---|
| | | Actual | Required | |
| Abstain | 20 | 17 | < 30 | PASS |
| Disapprove with comment | 2 | - | - | - |
| Disapprove without comment | 0 | - | - | - |
| Approve | 94 | 98 | ≥ 75 | PASS |
| Ballots returned | 116 | 68 | ≥ 50 | PASS |
| Voters | 170 | - | - | - |

# Seoul interim meeting report

- Met Monday 10th September
  - Thanks to those that attended
- Reviewed IEEE 802.3ax/D1.2 (IEEE P802.1AX)
- Responded to 8 comments

| E (Editorial) | 8 |
|---|---|
| ER (Editorial required) | 0 |
| T (Technical) | 0 |
| TR (Technical required) | 0 |

- Change to normative reference
  - Substantive change
- Issued recirculation ballot on D1.3

# IEEE 802.3ax (IEEE P802.1AX) Link Aggregation Working Group recirculation ballot results

- 3rd (D1.3) Working Group recirculation ballot
  - Ballot opened 1st October 2007, closed 16th October 2007

| Comments received: 2 | 2nd (D1.2) recirculation | | | 3rd (D1.3) Recirculation | | | Req % |
|---|---|---|---|---|---|---|---|
| | # | % | Status | # | % | Status | |
| Abstain | 20 | 17 | PASS | 19 | 16 | PASS | < 30 |
| Disapprove with comment | 2 | - | - | 1 | - | - | - |
| Disapprove without comment | 0 | - | - | 0 | - | - | - |
| Approve | 94 | 98 | PASS | 98 | 99 | PASS | ≥ 75 |
| Ballots returned | 116 | 68 | PASS | 118 | 69 | PASS | ≥ 50 |
| Voters | 170 | - | - | 170 | - | - | - |

# Richfield interim meeting report

- Met Wednesday 17th October
  - Thanks to those that attended
- Reviewed IEEE 802.3ax/D1.3 (IEEE P802.1AX)
- Responded to 2 comments

| | |
|---|---|
| E (Editorial) | 2 |
| ER (Editorial required) | 0 |
| T (Technical) | 0 |
| TR (Technical required) | 0 |

- No substantive changes
- Proceeded to Sponsor ballot (D2.0)
  - Based on conditional approval from July

# IEEE 802.3ay, (IEEE P802.3Rev) Maintenance #9 (Revision) Task Force

# IEEE 802.3ay (IEEE P802.3) revision Working Group ballot results

- 2nd (D1.2) Working Group recirculation ballot
  - Ballot opened 23rd August 2007, closed 7th September 2007

| Comments received: 123 | # | % | | Status |
|---|---|---|---|---|
| | | Actual | Required | |
| Abstain | 10 | 9 | < 30 | PASS |
| Disapprove with comment | 5 | - | - | - |
| Disapprove without comment | 0 | - | - | - |
| Approve | 99 | 95 | ≥ 75 | PASS |
| Ballots returned | 114 | 67 | ≥ 50 | PASS |
| Voters | 170 | - | - | - |

# Seoul interim meeting report

- Met Monday 10th September
  - Thanks to those that attended
- Reviewed IEEE 802.3ay/D1.2 (IEEE P802.3)
- Responded to 123 comments

| E (Editorial) | 86 |
|---|---|
| ER (Editorial required) | 7 |
| T (Technical) | 27 |
| TR (Technical required) | 3 |

- Major change - Organization specific slow protocol
  - ITU liaison request for a slow protocol type in July
    - Response was to add oorganization specific slow protocol (OSS)
  - Added text based on this response
- Issued recirculation ballot on D1.3

# IEEE 802.3ay (IEEE P802.3) revision Working Group recirculation ballot results

- 3rd (D1.3) Working Group recirculation ballot
  - Ballot opened 1st October 2007, closed 16th October 2007

| Comments received: 23 | 2nd (D1.2) recirculation | | | 3rd (D1.3) Recirculation | | | Req % |
|---|---|---|---|---|---|---|---|
| | # | % | Status | # | % | Status | |
| Abstain | 10 | 9 | PASS | 9 | 8 | PASS | < 30 |
| Disapprove with comment | 5 | - | - | 5 | - | - | - |
| Disapprove without comment | 0 | - | - | 0 | - | - | - |
| Approve | 99 | 95 | PASS | 102 | 95 | PASS | ≥ 75 |
| Ballots returned | 114 | 67 | PASS | 116 | 68 | PASS | ≥ 50 |
| Voters | 170 | - | - | 170 | - | - | - |

# Richfield interim meeting report

- Met Wednesday 17th October
  - Thanks to those that attended
- Reviewed IEEE 802.3ay/D1.3 (IEEE P802.3)
- Responded to 23 comments

| | |
|---|---|
| E (Editorial) | 14 |
| ER (Editorial required) | 0 |
| T (Technical) | 8 |
| TR (Technical required) | 1 |

- No substantive changes
- Proceeded to Sponsor ballot (D2.0)
  - Based on conditional approval from July

# IEEE 802.3ay MEC

- Mandatory Editorial Coordination (MEC)
  - Occurs prior to start of Sponsor Ballot
- Thee sections
  - Section I – Fix before ballot
  - Section II – Fix before final recirculation
  - Section III – Recommendations
- Section II

  These issues have to be resolved and viewed by balloters. The items will be checked for completion by the Project Editor during the Sponsor ballot, then checked by the Review Committee (RevCom) of the IEEE-SA Standards Board (IEEE-SASB), and will impact approval unless rectified.

# Section II comment

Please review the use of informative labeling within the document. From Clause 10 of the Style Manual:

*The draft standard shall contain normative text in the main clauses of the document, including footnotes to tables (see 15.5), and in normative annexes. Informative text shall be placed in notes (to text, tables, and figures), in footnotes within text, and in informative annexes. Interspersed normative and informative text is not allowed. Identification of normative or informative text shall be reviewed during the ballot of a document. Therefore, it is important that the working group consult an IEEE Standards project editor early with any questions.*

I know this has been discussed before, but since we are in a revision year, it might be a good idea to revisit this issue. I would look at the subclause headings such as 58.5 or 58.6. This type of "(informative)" labeling occurs in Clause 38, Clause 39, Clause 52, Clause 58, Clause 59, Clause 60, and Clause 68.

# Some examples - XAUI

47.3.5 Interconnect characteristics

The XAUI is primarily intended as a point-to-point interface of up to approximately 50 cm between integrated circuits using controlled impedance traces on low-cost printed circuit boards (PCBs). Informative loss and jitter budgets are presented in Table 47–4 to demonstrate the feasibility of standard FR4 epoxy PCBs. The performance of an actual XAUI interconnect is highly dependent on the implementation. The ..

# Section II comment - References

You might also want to take this revision opportunity to update your reference clause. Currently, you still use many of the years associated with the standard, despite the fact that we added the new reference clause wording "For undated references, the latest edition of the referenced document (including any amendments or corrigenda) applies." If we want readers to automatically update to the most recent version, we might want to go through and remove some of the years. This change would have to be made prior to balloting, which is why it appears in Section II; however, it is not required to proceed with balloting if you choose to leave it as is.

- Any volunteers ?
  - Review current dated reference to see if date can be removed

# IEEE Std 1802.3-2001 Reaffirmation

# IEEE 802.3 Maintenance reflector

# IEEE 1802.3-2001 Reaffirmation

- Voted in July 2006 to proceed with reaffirmation
- Initial sponsor ballot
  - Comments received stated standard out of date
  - Comment resolution agreed that standard should be withdrawn
    - But advice from staff is was need to complete balloting
- Voted in November 2006 to continue

  Motion : IEEE 802.3 recommends that IEEE Std 1802.3-2001 should be withdrawn and that this recommendation should be provided to the balloters. The recirculation cover letter and comment database should reflect this recommendation.

- Sponsor recirculation ballot
  - Reaffirmation remained approved
  - Agreed in July to proceed to approval then request withdrawal
- Proceeded to RevCom approval
  - Reaffirmation approved Board 27th September
- Withdrawal request
  - Approved by IEEE 802 EC
    - Letter submitted to Standards Board
  - Will be considered at December Standards Board meeting

# 'Maintenance' reflector

- Propose new IEEE 802.3 Maintenance reflector
  stds-802-3-maint@ieee.org

- Reflector used for
  - Maintenance issues
  - Maintenance projects
    - IEEE 802.3ax and IEEE 802.3ay task force reflector
    - Participation through membership of reflector
  - Op-in subscriptions
  - Address stds-802-3-maint

  - Can be used contact email address

# Plans for week

- ## Plans for week
  - ### Meet Wednesday afternoon
    - #### Please note 1:30PM start
  - ### Review MEC and consider actions

# Maintenance Web Information

- IEEE 802.3 Maintenance web site:

  http://www.ieee802.org/3/maint/index.html

IEEE 802.3 Maintenance request form is available at:

  http://www.ieee802.org/3 /private/maint/revision_request.html

  Username: ****

  Password: ******

  Password is case sensitive

- IEEE 802.3ax (IEEE P802.1AX) Link Aggregation

- IEEE 802.3ay (IEEE P802.3) Maintenance #9 (Revision)

  http://www.ieee802.org/3/axay/index.html