IEEE 802.3 Maintenance

July 19th, 2007
San Francisco, CA

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Activities this week

- Met Wednesday
  - Reviewed maintenance request status
  - IEEE 802.3ay Maintenance #9 (Revision)
    - IEEE P802.3REV
  - IEEE 802.3ax Link Aggregation
    - IEEE P802.1AX
  - IEEE Std 1802.3-2001 reaffirmation

Thanks to all those who attended

Maintenance Request Status

- Maintenance request 1107 withdrawn
  - Status was ‘Received’
  - Had not been progressed
- 33 Open Maintenance requests
- Current status of open requests -

Balloting	20
Ready for ballot	10
Awaiting clarification	0
To be categorised	3

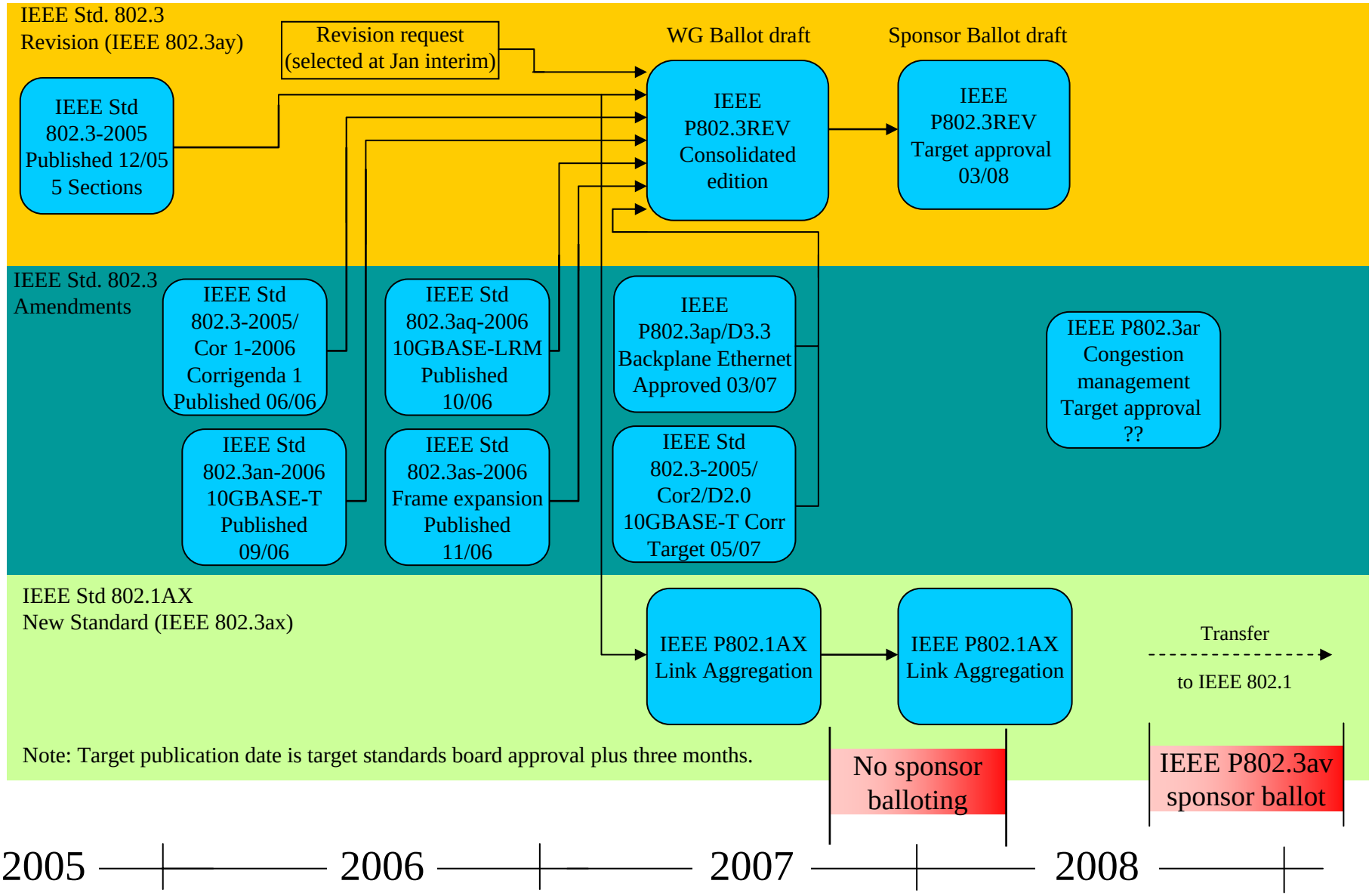
Notes:

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

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

IEEE 802.3ax (IEEE P802.1AX)

- Met Wednesday
  - Thanks to those that attended
- Reviewed IEEE 802.3ax/D1.1 (IEEE P802.1AX)
- Responded to 21 comments

E (Editorial)	19
ER (Editorial required)	0
T (Technical)	2
TR (Technical required)	0

- No big ticket items
- Substantive change
  - Missing normative reference
  - Recirculation required

IEEE 802.3ay (IEEE P802.3REV)

- Met Wednesday
  - Thanks to those that attended
- Reviewed IEEE 802.3ay/D1.1 (IEEE P802.3) revision
- Responded to 99 comments

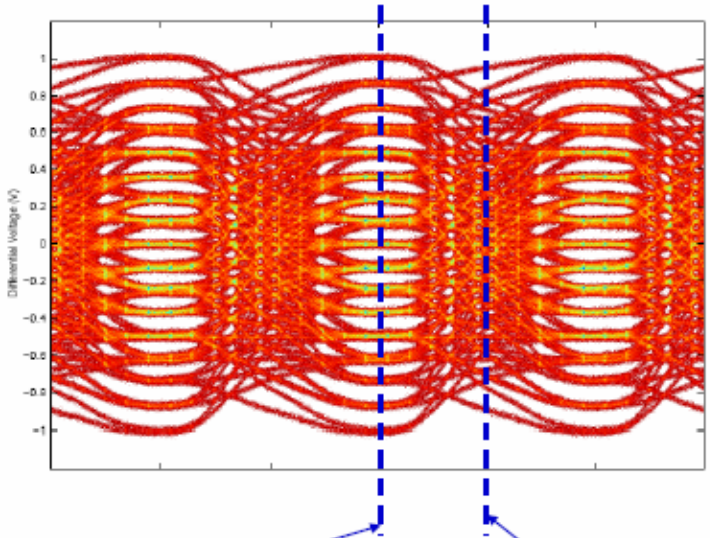
E (Editorial)	58
ER (Editorial required)	8
T (Technical)	25
TR (Technical required)	8

- Big ticket items
  - Backplane Ethernet merge errors
  - 1000BASE-T transmit distortion

1000BASE-T transmitter distortion

- 40.6.1.2.4 Transmitter distortion
  - When in test mode 4 and observing the differential signal output at the MDI using transmitter test fixture 3, for each pair, with no intervening cable, the peak distortion as defined below shall be less than 10 mV.
- Added in last draft
  - A PHY is considered to pass this test if the peak distortion is below 10mV for at least 30% of the UI.
- Change noted in cover letter

- Transmit Eye Diagram*



*From Cisco's UNH report pg 15

The receiver must sample during the open eye interval

Comment #7

- Comment

  Allowing the distortion to be measured over ANY 30% of the UI would permit false passes, specifically, by allowing passes when the 30% is away from the eye opening. Based on http://www.ieee802.org/3/axay/public/may_07/sefidvash_1_0507.pdf , the desired measurement needs to be within the eye opening (see slide 7 of the above: "Appropriate place to apply test is after the rise/fall time where the waveform has settled to it's final value")

- Suggested remedy

  Add "centered on the eye opening" to the end of the sentence: "A PHY is considered to pass this test if the peak distortion is below 10mV for at least 30% of the UI." so it reads:

  "A PHY is considered to pass this test if the peak distortion is below 10mV for at least 30% of the UI centered on the eye opening."

- Response

  ACCEPT IN PRINCIPLE.

  A comment in the meeting stated that 30% is too restrictive and this value should be increased to 60%.

  The new text will read: "A PHY is considered to pass this test if the peak distortion is below 10mV for at least 60% of the UI within the eye opening."

IEEE Std 802.3 revision timeline

Timeline

Revision request selection	17th	Jan	2007
PARs approval	22nd	Mar	2007
D1.0 Working Group ballot	23rd	Mar	2007
D1.1 Working Group ballot recirculation	29th	Jun	2007
Sposor balloting group formation	19th	Jul	2007
D1.2 Working Group ballot recirculation		Aug	2007
D1.2 Comment resolution	10th	Sep	2007
D2.0 Sponsor ballot		Sep	2007
D2.0 Comment resolution	14th	Nov	2007
D2.1 Sponsor ballot recircualtion		Dec	2007
D2.1 Comment resolution		Jan	2008
RevCom submittal#		Jan	2008
Standards board approval#		Mar	2008

Externally determined dates
* Recirculation if required

Task Force motion

- Request that IEEE 802.3 accepts the resolution to all comments received in the Working Group recirculation ballots of IEEE 802.3ax/D1.1 and IEEE 802.3ay/D1.1, and authorizes the editors to generate IEEE 802.3ax/D1.2 and IEEE 802.3ay/D1.2.
- Request that IEEE 802.3 authorizes the Maintenance Task Force to conduct recirculation ballots and meetings as necessary to resolve comments received during IEEE 802.3ax and IEEE 802.3ay balloting.
- Request that the IEEE 802.3 Working Group Chair request IEEE 802 EC grant conditional approval per IEEE 802 P&P Procedure 20 for IEEE 802.3ax (IEEE P802.3AX) Link Aggregation and IEEE 802.3ay (IEEE P802.3) revision to proceed to Sponsor Ballot.

Approved without opposition by voice

Motion

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M: David Law on behalf of Task Force

PASSED/FAILED Date: 19th July 2007

Y: N: A: Time:

Joining the sponsor ballot group

To ensure that you are notified about balloting group formation for IEEE 802.3 draft standards you are advised to signed up for the IEEE 802.3 activity area (replacing and equivalent to invitation pool) on myProject. To do this:

- Make sure you have an IEEE Web Account.
- Log on to myProject, and join the IEEE 802.3 'Ethernet Working Group' activity area. After logging in, use the 'Select Activity Profile' link to access your activity profile. IEEE 802.3 can be found under 'IEEE Computer Society', 'Local and Metropolitan Area Networks'.

After you have completed this, whenever a balloting group is formed for a proposed IEEE 802.3 standard you will be asked if you wish to be in that particular balloting group.

To vote at Sponsor Ballot level on an 802.3 project, you must:

- Either [a] be a member of the IEEE Standards Association or [b] pay an equilivent per ballot fee.
- Log on to myProject and join the project balloting group while the invitation is open. (You must join the ballot group for every project on which you want to vote.)

When you have joined the balloting group, you will receive notice when the ballot opens.

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 802.3aw (IEEE P802.3-2005/Cor 2)10GBASE-T Corrigendum

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

- 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