

# IEEE 802.3ax Link Aggregation IEEE 802.3ay Revision

## Agenda and General Information

March 14th, 2007  
Orlando, FL  
David Law  
3Com

# Agenda

- Appoint Recording Secretary
- Introductions
- Approve Agenda
- Administration
- Review task
  - Review IEEE 802.3ax Maintenance #9 (Revision) draft PAR
  - Review IEEE 802.1AX Link Aggregation draft PAR
    - ITU Liaison

Move to accept the agenda

M: Lepak S: Barrass

Y: N:

# Instructions for the WG Chair

- **At Each Meeting, the Working Group Chair shall:**
- **Show slides #1 and #2 of this presentation**
- **Advise the WG membership that:**
  - The IEEE's patent policy is consistent with the ANSI patent policy and is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
  - Early disclosure of patents which may be essential for the use of standards under development is encouraged;
  - Disclosures made of such patents may not be exhaustive of all patents that may be essential for the use of standards under development, and that neither the IEEE, the WG, nor the WG Chairman ensure the accuracy or completeness of any disclosure or whether any disclosure is of a patent that, in fact, may be essential for the use of standards under development.
- **Instruct the WG Secretary to record in the minutes of the relevant WG meeting:**
  - That the foregoing advice was provided and the two slides were shown;
  - That an opportunity was provided for WG members to identify or disclose patents that the WG member believes may be essential for the use of that standard;
  - Any responses that were given, specifically the patents and patent applications that were identified (if any) and by whom.

# 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. The patent holder or applicant should provide this assurance as soon as reasonably feasible in the standards development process. This assurance shall be provided no later than the approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be 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 is irrevocable once submitted and accepted and shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal.

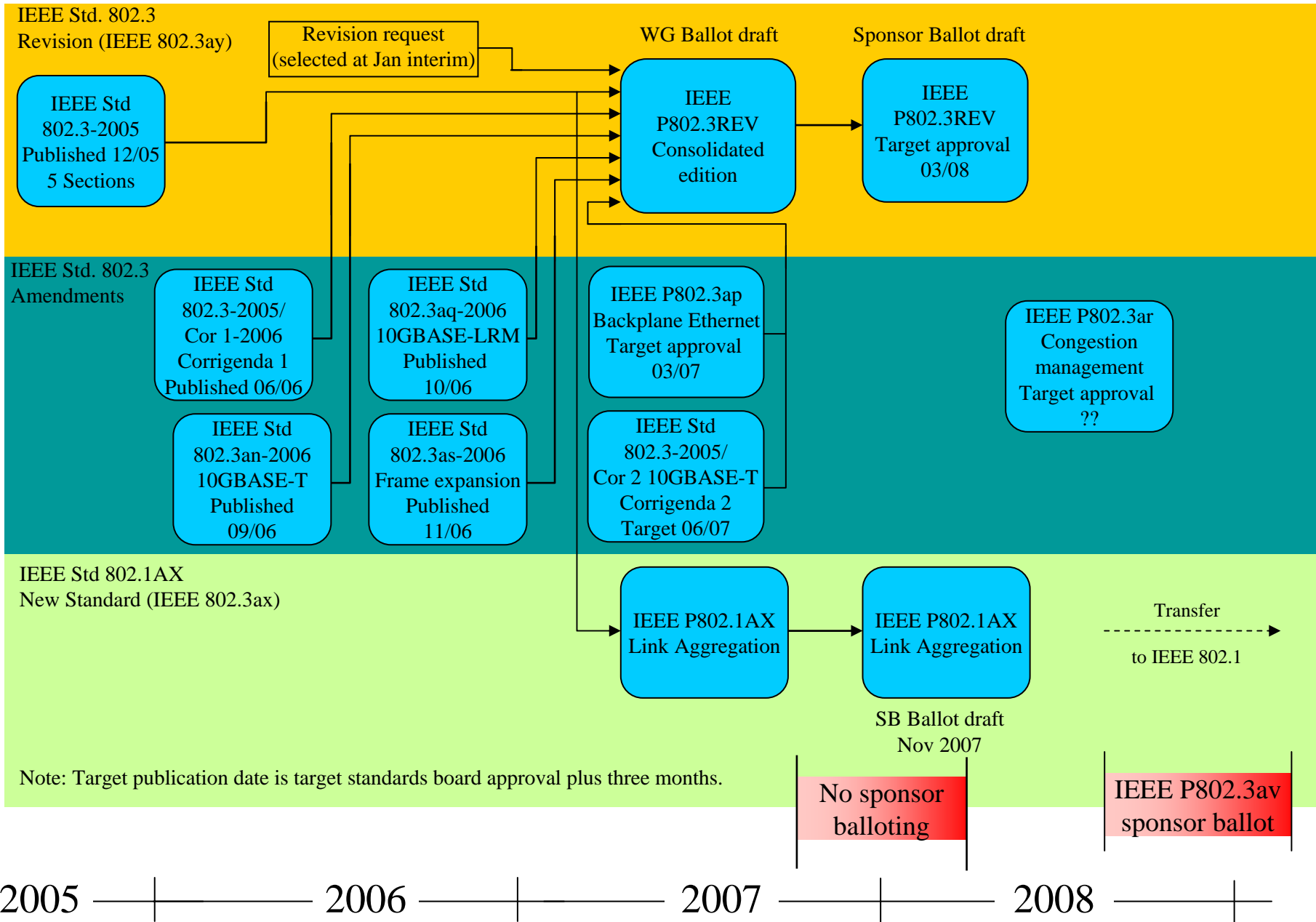
# Inappropriate Topics for IEEE WG Meetings

- Don't discuss the validity/essentiality of patents/patent claims
- Don't discuss the cost of specific patent use
- 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](mailto: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>**

# IEEE Std 802.3 revision plan



# IEEE Std 802.3 revision Timeline

- Timeline

Revision request selection	17 <sup>th</sup>	Jan	2007
NesCom submittal <sup>#</sup>	27 <sup>th</sup>	Jan	2007
Draft D0.9 drafts precirculated	5 <sup>th</sup>	Mar	2007
802.3 PAR approval	15 <sup>th</sup>	Mar	2007
802.3 WG ballot preapprove	15 <sup>th</sup>	Mar	2007
EC PAR approval	16 <sup>th</sup>	Mar	2007
PAR approval <sup>#</sup>	22 <sup>nd</sup>	Mar	2007
Working Group Ballot	23 <sup>rd</sup>	Mar	2007
Sponsor Ballot		Sep	2007
RevCom submittal <sup>#</sup>		Jan	2008
Standards board approval <sup>#</sup>		Mar	2008

<sup>#</sup> Externally determined dates

# Review of PAR Comments

- IEEE P802.1AX (IEEE 802.3ax)
  - No comments from other Working Groups
  - No comments from IEEE 802.3 participants
- IEEE P802.3REV (IEEE 802.3ay)
  - No comments from other Working Groups
  - 3 comments from IEEE 802.3 participants



# IEEE P802.3ay PAR comments

Piers Dawe #1:

As discussed; you might like to consider if this sentence:

Speed specific Media Independent Interfaces (MIIs) provide an architectural and optional implementation interface to selected physical layer (PHY) interfaces.

should be modified so that you are not connecting an interface to an interface.

Also there's the old annoyance that "physical layer" and PHY differ by the RS.

e.g. change last word and swap two around:

Speed specific Media Independent Interfaces (MIIs) provide an architectural and optional implementation interface to selected physical layer entities (PHY).

**ACCEPT**

# IEEE P802.3ay PAR comments

Howard Frazier:

I agree with Piers' point about this sentence:

Speed specific Media Independent Interfaces (MIIs) provide an architectural and optional implementation interface to selected physical layer (PHY) interfaces.

The last instance of the word "interfaces", at the end of the sentence, should be either replaced with "entities", or "physical layer" should be pluralized as "physical layers".

Also, Glen, Wael and I are concerned that the scope does not embrace EFM. Perhaps this could be addressed by the following change to the last sentence:

Other specified capabilities include: PHYs, control protocols and management protocols for access and metropolitan area network applications, and the provision of power over selected twisted pair PHY types.

# IEEE P802.3ay PAR comments

Piers Dawe #2:

As to covering EFM, if we were bold, instead of having the first sentence:

This standard defines Ethernet local area networks.

we could say:

This standard defines Ethernet local area, access and metropolitan area networks.

I never understood what "control protocols and management protocols" meant. I'm not convinced we do any such, or if we do, whether their use is restricted to access and metropolitan area network applications. We provide a transport mechanism for control and management protocols with the OAM clause; is there more?

Also note "metropolitian" should be "metropolitan".

**ACCEPT**

Change to 'This standard defines Ethernet local area, access and metropolitan area networks.'

# Review of Drafts

- IEEE P802.1AX (IEEE 802.3ax)
  - No comments
- IEEE P802.3REV (IEEE 802.3ay)
  - Move Annex 43B to be Annex 57B
    - This impacts the IEEE P802.1AX draft
  - Include the IEEE P802.3-2005/Cor 2 text
  - Remove place holder for Clause 55
    - Was in the Clause 54 file