

IEEE 802.3ax Link Aggregation  
IEEE 802.3ay Revision

Agenda and General Information

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# Agenda

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

Move to accept the agenda

M: Grow    S: Carlson

Y: 6        N:0

# 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.

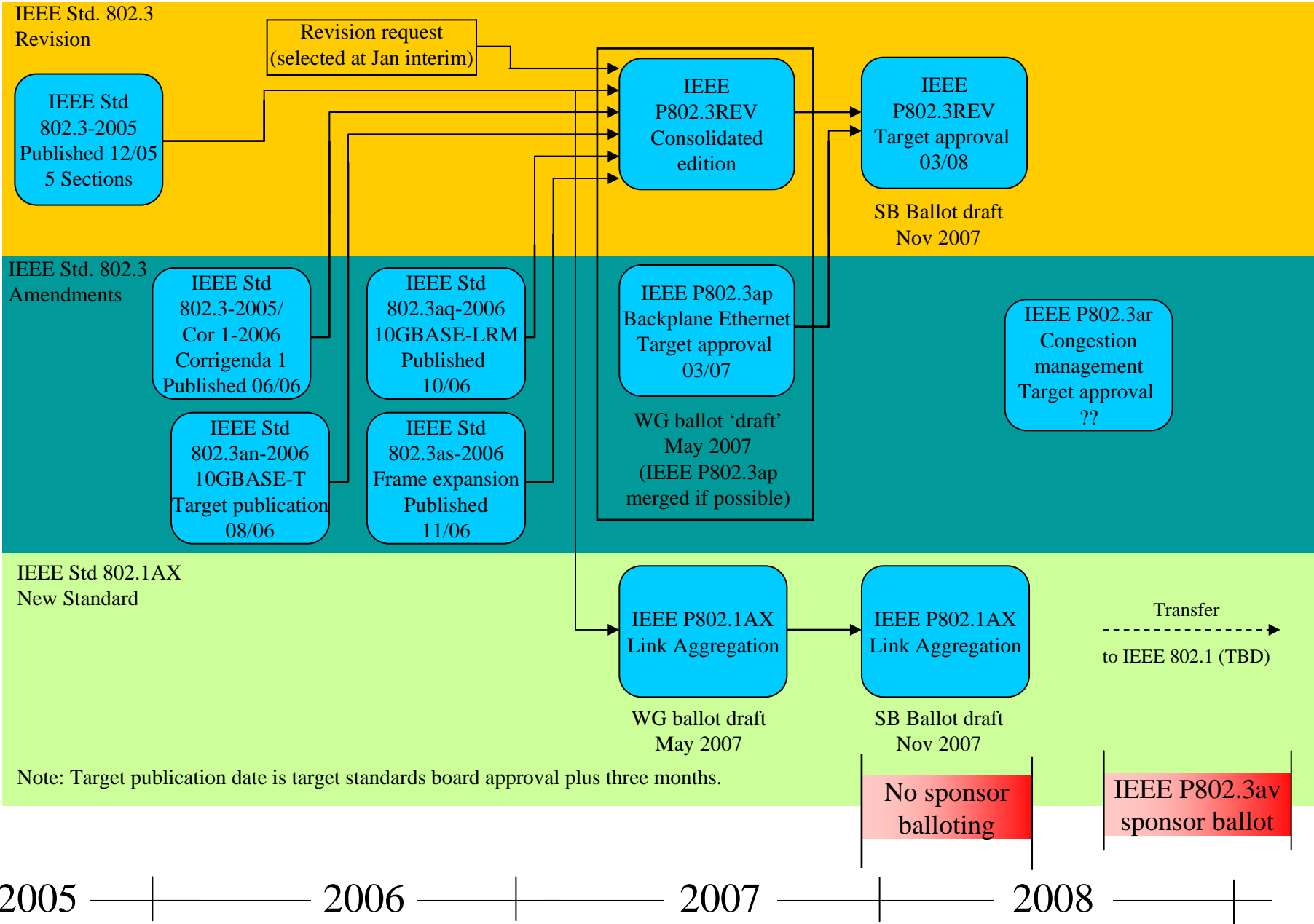
**If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at [patcom@ieee.org](mailto:patcom@ieee.org) or visit <http://standards.ieee.org/board/pat/index.html>**

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

# Review of task

- Motion passed 16<sup>th</sup> Nov 2006
  - Request that IEEE 802.3 authorise the IEEE 802.3 Working Group chair to work with the IEEE 802.3 Maintenance Task Force to generate and pre-submit a Revision PAR for IEEE Std 802.3 and a New Standard PAR for IEEE P 802.3.1 Link Aggregation based on the plan 'IEEE Std 802.3 revision plan proposal – 16th November 2006'
  - Charter the IEEE 802.3 Maintenance Task Force to develop drafts based on plan 'IEEE Std 802.3 revision plan proposal – 16th November 2006'
  - Request that IEEE 802.3 authorise the IEEE 802.3 Maintenance Task Force to pre-submit the IEEE 802.3 Revision and IEEE P802.3.1 drafts prior to the March plenary if available (making this request without a PAR is without precedent).
- One deviation
  - Link Aggregation standard now IEEE P802.1AX
    - Still IEEE 802.3 project but will be IEEE 802.1 standard
    - Done many times for IEEE Std 802.1D amendments
      - Most recent IEEE 802.17a

# 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
EC PAR approval	16 <sup>th</sup>	Mar	2007
PAR approval <sup>#</sup>	22 <sup>nd</sup>	Mar	2007
Working Group Ballot	1 <sup>st</sup>	Jun	2007
Sponsor Ballot		Nov	2007
RevCom submittal <sup>#</sup>		Apr	2008
Standards board approval <sup>#</sup>		Jun	2008

<sup>#</sup> Externally determined dates



IEEE Std 802.3 revision  
Selection of maintenance request

IEEE Std 802.3 revision  
IEEE Std802.3-2005/Rev (IEEE 802.3ay)  
draft PAR

IEEE Std 802.3 revision  
IEEE P802.1AX draft PAR

# IEEE Std 802.3 revision

## IEEE 802.1AX Link Aggregation

- Contents
  - Clause 43 Link Aggregation
  - Annex 43A Collection and Distribution functions
  - Annex 43C LACP standby link selection and dynamic Key management
  - Annex 30C SNMP MIB definitions for Link Aggregation
  - Clause 1 definition related only to Link Aggregation
    - For example subclause 1.4.53 '**Actor**: The local entity in a Link Aggregation Control Protocol exchange. (See IEEE 802.3, Clause 43.)'
  - Subclause 30.7 Management for Link Aggregation
    - And all its subclauses
  - Annex 30B content in support of 30.7
- Keep in IEEE 802.3
  - Annex 43B Requirements for support of Slow Protocols