IEEE 802.3
Maintenance

March 12th, 2006
Orlando, FL
David Law
David_Law@3Com.com
Agenda

- Maintenance Request Status
- IEEE 802.3aw 10GBASE-T Corrigendum
  - IEEE P802.3-2005/Cor 2
- IEEE 802.3ax Link Aggregation
  - IEEE P802.1AX
- IEEE 802.3ay Maintenance #9 (Revision)
  - IEEE P802.3REV
- IEEE Std 1802.3-2001 reaffirmation
- IEEE 802.3 maintenance WWW site
Maintenance Request Status

• 34 Open Maintenance requests
• 2 new requests since November
  – Both related to IEEE Std 802.3-2005
    • Clause 33 DTE Power Via MDI
• Current status of open requests -
  Ready for ballot 29
  Awaiting clarification 1
  To be categorised 5

New requests

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<tr>
<th>Request</th>
<th>Standard</th>
<th>Subclause</th>
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IEEE 802.3ax, (IEEE P802.1AX) Link Aggregation Task Force.

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

• Revision required when
  – three years have elapsed since last revision
    • IEEE Std 802.3-2005 approved June 2005
  – and number of amendments is four or more
    • We will probably have 5 amendments by June 2008

• Can ask for 2 year extension from Standards Board
  – Based on ‘extenuating circumstances’
  – Requires
    • Project plan outlining the rationale
    • Schedule for the revision

• Not meeting these requirement will block new projects
  – RevCom defers consideration of additional amendments or corrigenda

• While revision is in sponsor ballot
  – No other sponsor ballot can start

• Opportunity to move Link Aggregation to IEEE 802.1
  – It is an 802.3 sublayer but it has to go above IEEE Std 802.1x
Review of task

• Motion passed 16th 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).
IEEE Std 802.3 revision plan proposal – 16th November 2006

IEEE Std 802.3 Revision
- IEEE Std 802.3-2005 Published 12/05 5 Sections
- IEEE P802.3REV Consolidated edition
- IEEE P802.3REV Target approval 03/08
- SB Ballot draft Nov 2007

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 Std 802.3as-2006 Frame expansion Published 11/06
- IEEE P802.3ap Backplane Ethernet Target approval 03/07
- WG ballot ‘draft’ May 2007 (IEEE P802.3ap merged if possible)
- IEEE P802.3ar Congestion management Target approval ??

IEEE Std 802.3.1 New Standard
- IEEE P802.3.1 Link Aggregation
  - WG ballot draft May 2007
  - SB Ballot draft Nov 2007
- IEEE P802.3.1 Link Aggregation
  - Transfer to IEEE 802.1 (TBD)
- IEEE P802.3av sponsor ballot

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

2005 2006 2007 2008
Monterey interim meeting report

• Met Wednesday 17th January
  – Thanks to those that attended
• One deviation
  – Link Aggregation standard now IEEE P802.1AX
    • Still IEEE 802.3 project but will be IEEE 802.1 standard
    • Similar approaches to some IEEE Std 802.1D amendments
      » Most recent IEEE 802.17a
• Reviewed draft PARs
  – IEEE P802.1AX - Link Aggregation
    • Internal designation - IEEE 802.3ax
  – IEEE P802.3REV – Maintenance #9 (revision)
    • Internal designation - IEEE 802.3ay
• Reviewed draft content
  – Clause and annexes to remove for IEEE P802.1AX
  – Selected revision requests for inclusion in draft
## Requests included in IEEE 802.3REV draft

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<th>Page</th>
<th>Reference</th>
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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
Status and plans for week

• PAR Status
  – Draft PAR pre-submitted of LMSC and NesCom

• Draft Status
  – IEEE-SA Editor produce consolidated well ahead of plan
    • Added Revision request to draft
    • Extracted clauses and formed IEEE 802.1AX draft
    • Drafts pre-circulated to IEEE 802.3 last week

• Plans for week
  – Meet Wednesday afternoon
  – Review and respond to comments on PAR
  – Review and respond to comments on drafts
  – Expect to request at closing plenary
    • Approval of draft PARs
    • Approval to proceed to Working Group ballot
IEEE Std 802.3 revision plan

IEEE Std 802.3 Revision

IEEE Std 802.3-2005
Published 12/05
5 Sections

IEEE Std 802.3 Amendments

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

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

IEEE Std 802.3an-2006
10GBASE-T
Target publication 08/06

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

IEEE Std 802.3as-2006
Frame expansion
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IEEE P802.3ap Backplane Ethernet
Target approval 03/07

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IEEE P802.3REV
Target approval 03/08

IEEE P802.3ar Congestion management
Target approval ??

IEEE Std 802.1AX New Standard

IEEE P802.1AX
Link Aggregation

IEEE P802.1AX
Link Aggregation

Transfer to IEEE 802.1 (TBD)

IEEE P802.3av
sponsor ballot

Note: Target publication date is target standards board approval plus three months.
IEEE 802.3aw
(IEEE Std 802.3-2005/Cor 2)
10GBASE-T Corrigendum
IEEE P802.3-2005/Cor 2 (IEEE P802.3aw) 10GBASE-T corrigendum

- **Timeline**

  - **Draft review**: 16<sup>th</sup> Nov 2006
  - **EC PAR approval**: 17<sup>th</sup> Nov 2006
  - **Working Group ballot**: Open 29<sup>th</sup> Dec 2006, Close 19<sup>th</sup> Feb 2007
  - **PAR approval** #: 27<sup>th</sup> Feb 2007
  - **Comment resolution**: 14<sup>th</sup> Mar 2007
  - **Form sponsor ballot group**: Open 12<sup>th</sup> Mar 2007, Close 26<sup>th</sup> Mar 2007
  - **Sponsor Ballot**: Open 27<sup>th</sup> Mar 2007, Close 26<sup>th</sup> Apr 2007
  - **RevCom submittal** #: 27<sup>th</sup> Apr 2007
  - **Standards board approval** #: 07<sup>th</sup> Jun 2007

# Externally determined dates
IEEE P802.3-2005/Cor 2 10GBASE-T Corrigendum
Working Group ballot results

Ballot opened 29th December 2006, closed 19th February 2007

Comments received: 4

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Plans for week

– Meet Wednesday afternoon
  • Review and respond to comments on drafts
  • Agree next steps
    – Dependant on forming sponsor ballot group
IEEE Std 1802.3
Reaffirmation
IEEE 1802.3-2001 Reaffirmation

• Standards require reaffirmation or revision
  – Every 5 years

• Initial sponsor ballot
  – Ballot opened 10th August 2006
  – Ballot closed 9th September 2006

• Based on comments received the following motion was passed at November IEEE 802 plenary:
  – 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
  – Ballot opened 1st March 2007
  – Ballot closes 16th March 2007
IEEE 1802.3 Reaffirmation
Sponsor ballot results

Ballot opened 1st March 2007, **closes 16th March 2007**

Comments received: 8

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Maintenance Web Information

- The Maintenance web site is at:
  

- The Maintenance request form is available at:
  
  http://www.ieee802.org/3/private/maint/revision_request.html
  Username: *******
  Password: *******

- Password is case sensitive