IEEE P802.3ba
40Gb/s and 100Gb/s Ethernet Task Force

Chief Editor’s Report

Ilango Ganga, Intel
Editor-in-Chief, IEEE P802.3ba Task Force

Sep 16, 2008
# Editorial Team

<table>
<thead>
<tr>
<th>Editor</th>
<th>Affiliation</th>
<th>Responsibilities</th>
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<tr>
<td>Ilango Ganga</td>
<td>Intel</td>
<td>Editor-in-Chief</td>
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<tr>
<td>Mark Gustlin</td>
<td>Cisco</td>
<td>Logic track sub-task force Chief Editor, Editor RS/MI I &amp; PCS clauses</td>
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<tr>
<td>Chris Di Minico</td>
<td>MC Communications</td>
<td>Copper track sub-task force Chief Editor, Editor 40/100G copper PMDs</td>
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<td>Pete Anslow</td>
<td>Nortel</td>
<td>Optical track sub-task force Chief Editor, Editor SMF PMD clauses</td>
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<td>Hugh Barrass</td>
<td>Cisco</td>
<td>Editor Management clauses</td>
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<td>Steve Trowbridge</td>
<td>Alcatel-Lucent</td>
<td>Editor PMA clause</td>
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<tr>
<td>Arthur Marris</td>
<td>Cadence</td>
<td>Editor Backplane Ethernet clauses</td>
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<td>Jonathan King</td>
<td>Finisar</td>
<td>Editor SMF PMD clauses</td>
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<td>Piers Dawe</td>
<td>Avago Technologies</td>
<td>Editor 40/100G MMF PMD clause</td>
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<tr>
<td>Ryan Latchman</td>
<td>Gennum</td>
<td>Editor XLAUI/CAUI annex</td>
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Current status

- Editorial team completed Draft 0.9 for task force preview
  - All adopted baseline proposals (see http://www.ieee802.org/3/ba/BaselineSummary_0708.pdf) translated to equivalent text in P802.3ba/D0.9
  - The TF is yet to select a baseline for 40G LR
- Thanks to Editorial team, volunteers and contributors for your efforts in releasing the draft on Aug 25th, 2008
Top meeting goals

- Review Draft 0.9 and adopt baseline draft
- Close baseline selection for 40G LR
  - Which includes a proposal and proposed text

- See agenda_01_0908 for further details
Scope of Review..(1)

- Editorial team has translated baseline proposals to text in Draft 0.9
- The scope of review is to check for accuracy of this translation
  - Not to debate new proposals or modify existing proposals
  - Note down exceptions where the draft differs from the intent of the baseline proposal
Scope of Review ..(2)

- Identify opens
  - Editors have identified known opens in Editorial notes in Draft 0.9
  - In some cases Editors have proposed text and or numbers for completeness. Review and either accept these or mark it as TBD
  - Note down opens that have not been highlighted by Editorial notes

- Draft 1.0 will be Draft 0.9 plus any exceptions identified during review and, if adopted, text for 40G LR baseline proposal plus any exceptions identified during review
  - The baseline draft need not be technically complete
General meeting outline

- **Tue AM/PM**
  - Reserved for general business, agenda, editors report, and 40G LR presentations
- **Wed AM**
  - Discussions on 40G LR motions, and other draft specific presentations
- **Wed PM**
  - Draft 0.9 review of common clauses
- **Thu AM/PM**
  - Continue Draft 0.9 review of logic and PMD clauses
- **Fri AM**
  - Continue Draft 0.9 review and summarize
- **Fri PM**
  - Baseline draft adoption motions
  - Closing business, Next steps
  - Pending time availability MMF presentations

*Note: See agenda_01_0908 for detailed meeting schedule  
Order of review or subject to change*
Draft Review outline..(1)

- Wed AM/PM: Introductory and management clauses (Total 51 pages)
  - Clause 1, Annex A, (Intro) 4 pages
  - Clause 4, Annex 4A (MAC), 2 pages
  - Clause 30, Annex 30A, 30B Mgmt (There is no content, so nothing to review, unless someone brings up any points for discussion)
  - Clause 45, (MDIO) 40 pages (This impacts all clauses, hence discuss in common track)
  - Clause 150, (Introduction to 40/100G), 6 pages

*Note: Order of review or time subject to change*
Draft Review outline..(2)

- Wed PM: Logic Clauses (Total 65 pages)
  - Clause 151 (RS/MII), 20 pages
  - Clause 152 (PCS), 30 pages
  - Clause 153 (PMA), 15 pages

- Thu AM: Annex 153A (XLAUI/CAUI) (Total 13 pages)

*Note: Order of review or time subject to change*
Thu AM/PM: Copper and Backplane clauses (Total 55 pages)
  - Clause 69, Annex 69A, 69B (Backplane Intro, test, channel), 5 pages
  - Clause 73 (Auto-Neg), 6 pages
  - Clause 74 (FEC), 6 pages
  - Clause 154 (KR4), 12 pages
  - Clause 155 (CR4), 26 pages

*Note: Order of review or time subject to change*
Draft Review outline ..(3)

- Thu PM/Fri AM: Optical PMD clauses (Total 46+ pages)
  - Clause 156 (40/100 SR), 24 pages (some copper members will be interested in PPI interface)
  - Clause 158 (40/100 LR/ER), 22 pages
  - Clause 157: Review text corresponding to 40G LR baseline if adopted on Wed AM

- Fri AM: Review summary
  - Highlight list of exceptions or changes to Draft 0.9 identified during review

*Note: Order of review or time subject to change*
IEEE P802.3ba Task Force Timeline

You Are Here

Task Force Formation

Baseline

TF Review

WG Ballot

LMSC Ballot

Standard

Legend

IEEE 802 Plenary
IEEE 802.3 Interim
IEEE-SA Standards Board

* Adopted by IEEE P802.3ba TF at March 08 Plenary

IEEE P802.3ba Task Force meeting, Sep
## Proposed schedule for initial WG ballot

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Description</th>
<th>Day</th>
<th>Date</th>
<th># days</th>
<th>Status</th>
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</thead>
<tbody>
<tr>
<td>Jul Plenary</td>
<td>Mon-Thu</td>
<td>Jul 14-18</td>
<td>Done</td>
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<tr>
<td>Draft 0.9</td>
<td>Proposed Baseline draft available to TF for review</td>
<td>Mon</td>
<td>25-Aug-08</td>
<td>Done</td>
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<tr>
<td>Sep'08 Interim (Baseline draft adopted by TF)</td>
<td>Tue-Fri</td>
<td>Sep 15-19</td>
<td>3 weeks</td>
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<tr>
<td>Draft 1.0</td>
<td>Initial Task force review (open for TF comments)</td>
<td>Fri</td>
<td>1-Oct-08</td>
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<tr>
<td>Initial Task force review – (TF comment period ends)</td>
<td>Thu</td>
<td>30-Oct-08</td>
<td>30 days</td>
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<tr>
<td>Nov 08 Plenary</td>
<td>Mon-Thu</td>
<td>Nov 10-14</td>
<td>Critical to close major opens</td>
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<tr>
<td>Draft 1.1</td>
<td>First TF recirculation – (Open for TF comments)</td>
<td>Wed</td>
<td>10-Dec-08</td>
<td>All technical issues addressed</td>
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<tr>
<td>First TF recirculation – (TF comment period ends)</td>
<td>Tue</td>
<td>30-Dec-08</td>
<td>3 weeks</td>
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<td>Jan interim (The meeting dates are estimated)</td>
<td>Tue-Fri</td>
<td>Jan 12-16</td>
<td>* 4 weeks if interim is Jan 19</td>
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<tr>
<td>Draft 1.2</td>
<td>Second TF recirculation – (Open for TF comments)</td>
<td>Fri</td>
<td>6-Feb-08</td>
<td>Technically complete draft</td>
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<tr>
<td>Second TF recirculation – (TF comment period ends)</td>
<td>Thu</td>
<td>26-Feb-08</td>
<td>3 weeks</td>
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<td>Draft 2.0-pre (D1.2)</td>
<td>Initial Working Group ballot – pre circulation (D1.2)</td>
<td>Mon</td>
<td>2-Mar-08</td>
<td>Precirculation deadline</td>
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<td>March '09 Plenary (review any changes line by line with WG)</td>
<td>Mon-Thu</td>
<td>March 9-12</td>
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<tr>
<td>Draft 2.0</td>
<td>Initial working group ballot – opens</td>
<td>Fri</td>
<td>Mar 27 (or Mar 20*)</td>
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<tr>
<td>Initial working group ballot - closes</td>
<td>Thu</td>
<td>Apr 30 (or April 23*)</td>
<td>35 days</td>
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<td>May 09 interim* (The meeting dates are estimated)</td>
<td>Tue-Fri</td>
<td>May 11-15*</td>
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Note: It is essential to meet this schedule to request for WG ballot in Mar’09
Potential risks to schedule

- As per proposed schedule Draft 1.2 coming out of Jan’09 interim should be technically complete
  - To request for WG ballot in Mar’09 Plenary
- If the TF does not adopt a baseline for 40G LR in Sep’08
  - Instead makes a baseline selection in Nov’08 plenary
  - This means 40G LR Clause will miss 2 review cycles (current one, and the one after Sep)
  - Since all technical issues need to be closed at Jan’09 interim, potential risk that D1.2 may not be technically complete
- Potential risk to schedule if the TF does not make a decision on 40G LR solution in Sep interim
Summary & Next steps

- Review Draft 0.9 and adopt baseline draft in Sep’08 interim
  - Direct editorial team to generate Draft 1.0
- Identify opens in Sep’08 interim
- Release Draft 1.0 for initial Task Force review by Oct 1\textsuperscript{st}
  - Comments due by Oct 30\textsuperscript{th}
- Close major opens by Nov’08
  - Expect contributions to close opens in Nov’08 Plenary
- Close all technical opens (or TBDs) by Jan’09
  - Draft 1.2 should be technically complete
- Request to go to WG ballot at Mar’09 Plenary
  - Release technically complete draft for 802.3 WG preview on Mar 02\textsuperscript{nd}