

IEEE 802.3z

Gigabit Task Force

Agenda and General Information

Lahaina, HI
7-July-1997

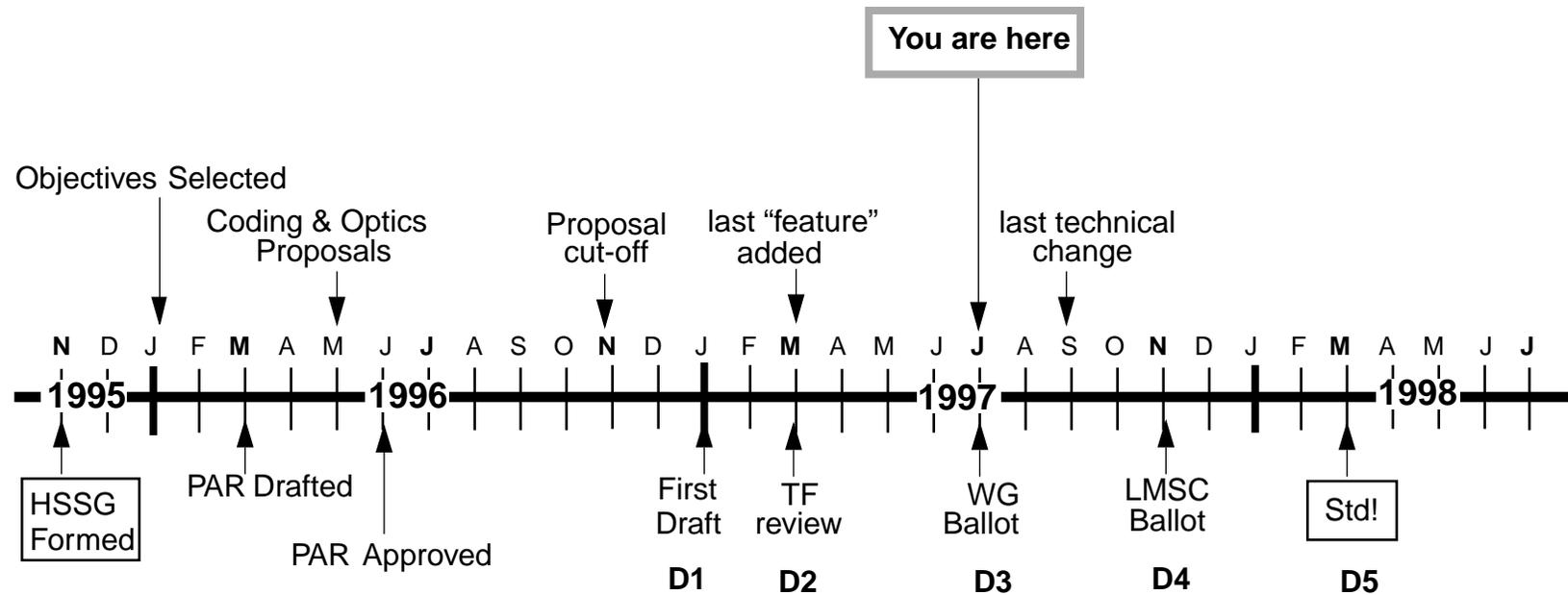
Agenda

- ___ 1. Welcome and introductions
- ___ 2. Select recording secretary
- ___ 3. P802.3z status report
- ___ 4. Standards development timeline
- ___ 5. Email reflector and ftp/web sites
- ___ 6. Comment submission
- ___ 7. Comment resolution
- ___ 8. Review HSSG objectives
- ___ 9. Distribution of documents
- ___ 10. Call for patents
- ___ 11. Liaison reports
- ___ 12. "Big Ticket" items
- ___ 13. Sub Task Force breakouts
- ___ 14. New business
- ___ 15. Plans for next meeting
- ___ 16. Approve minutes of May meeting
- ___ 17. Adjourn

P802.3z status report

- 802.3 WG approved P802.3z PAR on 14-Mar-96
- 802 Exec approved P802.3z PAR on 14-Mar-96
- NESCOM approved P802.3z PAR on 19-Jun-96
- IEEE Standards Board approved P802.3z PAR on 20-Jun-96
- Task Force held first meeting on 9-July-96
 - Elected H. Frazier, Chair and H. Johnson, Editor-In-Chief
- Established voting rules
 - All those present at the time a vote is taken may vote, if they feel qualified to do so
 - > 50% majority required for procedural motions
 - >= 75% majority required for technical motions
- Selected suite of technical proposals 13-Nov-96
- Formed Sub Task Forces 13-Nov-96
- Distributed draft D1 on 9-Jan-97, D2 on 24-Feb-97, D2.1 on 1-May-97
- Distributed draft D3 on 24-June-1997

Standards development timeline



E-mail reflector

- The IEEE has set up a reflector for this task force:
stds-802-3-hssg@mail.ieee.org
- There are currently ~670 names/addresses on the reflector
- The reflector can be used for announcements, comments, discussions, or dissemination of information related to the work of this task force
- The reflector should not be used for recruiting, advertising, soliciting, flaming, or whining
- To be added to the reflector, send an E-mail containing the line
subscribe stds-802-3-hssg <your email address>
- to
majordomo@majordomo.ieee.org
- Subscriptions are on an individual basis only
No proxy requests or reflectors will be subscribed
- Two new reflectors for PMD and 1000BASE-T discussions
stds-802-3-z-pmd@mail.ieee.org
stds-802-3-1000base-t@mail.ieee.org

FTP/Web sites

- The IEEE has established an ftp site for our use:
 - ftp://stdsbbs.ieee.org/pub/802_main/802.3/gigabit
- We archive minutes and technical presentations on this site
 - Format for minutes is ASCII text
 - Format for presentations is ASCII text or PDF
- The “802.3” and “gigabit” directories will always contain a file called “meeting.html” which will contain information about the next meeting’s schedule and arrangements
- Please send requests for uploads to this site to:
 - spa-admin@mail.ieee.org
- The IEEE has established a web site for our use:
- This site is used to archive drafts as PDF files
- Do not distribute this site URL, user name, or password

Comment submission

- Web based comment collection form is up and running

Use this form to submit comments on draft D3

Name:	<input type="text"/>	Email:	<input type="text"/>
Phone #:	<input type="text"/>	Fax #:	<input type="text"/>
Co/Org:	<input type="text"/>	Clause:	<input type="text" value="01"/>
Page:	<input type="text" value="e.g 35.4"/>	Subclause:	<input type="text" value="e.g. 35.2.1"/>
Line:	<input type="text" value="e.g. 5"/>	<input type="checkbox"/> Technical <input type="checkbox"/> Editorial <input type="checkbox"/> Technical Required	
Comment:	<input type="text"/>		
Suggested Remedy:	<input type="text"/>		

Please fill in all fields before clicking Click to start over

Click "back" on your browser to return to this page after submitting your comment

Comment submission (Do's and Don'ts)

- Do - use the web based comment form for most comments
- Do - supply all of the requested fields
- Do - use subclause/page/line reference numbers from latest draft
- Do - supply a SuggestedRemedy with each comment
- Do - identify each comment as Editorial/Technical/Technical Required
- Do - use the ASCII form if you have lots and lots of comments
- Do - submit ASCII comments to stds-802-3-z-comments@ieee.org
- Do - start the text for the Comment: and SuggestedRemedy: fields on a new line
- Do - submit a comment whenever you think a change to the draft is needed
- Do Not - include multiple issues in the same comment
- Do Not - leave any fields blank
- Do Not - modify the names of any fields
- Do Not - remove the names of any fields
- Do Not - comment on old drafts

Comment submission (example of a properly formatted comment)

CommenterName: Paul Kolesar
CommenterEmail: pkolesar@lucent.com
CommenterPhone: 732 957 5077
CommenterFax: 732 957 5604
CommenterCo: Lucent Technologies
Clause: 38
Subclause: 5.3
Page: 38.11
Line: 22
CommentType: T

Comment:

Clarify extinction ratio definition.

CommentEnd:

SuggestedRemedy:

Delete "minimum acceptable" in line 22 and add the following to the end of the sentence to tie in with clauses 38.3.3 and 38.3.4: "... at the center of the eye."

RemedyEnd:

Comment resolution

- Comment resolution is our “raison d’être”, and our “modus operandi”
- Issues must be distilled into “comments”
- Solutions must be distilled into “remedies”
- Changes to the draft must be distilled into “responses”
- All of the above must be carefully and explicitly documented
- Confusion, inaccuracy, uncertainty, or imprecision will result in failure

Why? Because we need to stay organized and stay focused. The task before us is to measure, improve (if necessary), and maintain consensus on the technical content of the document. The comment submission and resolution process is the means by which we accomplish this in IEEE 802.3

Also, because we can expect to receive about 3000 comments on P802.3z during the ballot cycles. The prescribed formalisms are the best means for preventing the process from becoming unmanageable

Objectives

1. Speed of 1000 Mb/s at the MAC/PLS service interface
2. Use 802.3/Ethernet frame format
3. Meet 802 FR, with the possible exception of Hamming Distance
4. Simple forwarding between 1000, 100, 10
5. Preserve min and max FrameSize of current 802.3 Std
6. Full and Half Duplex operation
7. Support star-wired topologies
8. Use CSMA/CD access method w/ support for at least 1 repeater/collision domain
9. Support Fiber media and if possible copper media
10. Use ANSI Fiber Channel FC-1 and FC-0 as basis for work
11. Provide a family of Physical Layer specifications which support a link distance of:
 - a. At least 25 m on copper (100 m preferred)
 - b. At least 500 on multimode fiber
 - c. At least 3 km on single mode fiber
12. Support maximum collision domain diameter of 200m
13. Support media selected from ISO/IEC 11801
14. Adopt flow control based on 802.3x
15. Include a specification for an optional Media Independent Interface

“Big Ticket” Items

Item#: 1	Title: Effective Modal Bandwidth specifications for multimode fiber		
Affected Clauses: 38		Owner: J. Thatcher	
Meeting Time:		Meeting Place:	Status:
Description: Need to come up with values for EMB for both 50 and 62.5 micron fiber at both short and long wavelength.			
Plan: The tables in clause 38 may need adjustment, and we must walk out of the meeting with absolute clarity on the format, composition, and contents of the tables.			
Resolution:			

Item#: 2	Title: Fiber link distances		
Affected Clauses: 38		Owner: J. Thatcher	
Meeting Time:		Meeting Place:	Status:
Description: As a consequence of item 1, the fiber link distances for MMF may change. The resulting distances may fall below the formal and informal objectives we have set for the project.			
Plan: We will need to decide whether the distances are adequate, and whether changes to the objectives are necessary.			
Resolution:			

“Big Ticket” Items

Item#: 3	Title: GMII timing parameters		
Affected Clauses: 35		Owner: B. Grow	
Meeting Time:		Meeting Place:	Status:
Description: A couple of parties have expressed concern about the rise/fall time restrictions on the GMII data signals, and would like to include a template for the data signals that allows a slower rise/fall time.			
Plan: The GMII sub task force will review a complete proposal, and decide whether to make a change.			
Resolution:			

Item#: 4	Title: GMII management register review		
Affected Clauses: 22, 35		Owner: B. Grow	
Meeting Time:		Meeting Place:	Status:
Description: Now that the GMII management registers have been folded back into clause 22, we have to go through the wording carefully to see what we missed, and what needs refinement.			
Plan: Careful review			
Resolution:			

“Big Ticket” Items

Item#: 5	Title: RPAT, CRPAT, PRBS, Jitter test patterns for annex 36A	
Affected Clauses: 36, 36A, 38, 39	Owner: Taborek/Brown/Thatcher	
Meeting Time:	Meeting Place:	Status:
Description: Must review the Jitter test patterns described in annex 36A, because the motions concerning these patterns which we adopted at the last meeting were contradictory. We need to decide whether the Jitter test patterns in draft D3/Annex 36A are adequate, and whether they meet the spirit, if not the letter, of the motions from Ft. Lauderdale.		
Plan: Review in PCS and PMD sub task forces		
Resolution:		

Item#: 6	Title: Impact of Bit Errors on AutoNegotiation	
Affected Clauses: 36, 37	Owner: Taborek	
Meeting Time:	Meeting Place:	Status:
Description: Cases have been found in which bit errors can induce a restart of AutoNegotiation. We need to reach a decision as to whether this warrants a change, and if so, what the change should be.		
Plan: Consider in PCS/AN sub task force		
Resolution:		

“Big Ticket” Items

Item#: 7	Title: Clause 39 Test Procedures		
Affected Clauses: 39		Owner: Thatcher/Grivna	
Meeting Time:	Meeting Place:	Status:	
Description: A draft of a set of test procedures for clause 39 has been drafted. Since this is a fairly large piece of new information, it must be reviewed and a decision must be reached on whether/how/where to include it in the next draft.			
Plan: Review in PMD sub task force			
Resolution:			

Item#: 8	Title: PICs, PICs, PICs		
Affected Clauses: 22,35,36, 37,38,39,41		Owner: Grow/Taborek/Thatcher/Haddock	
Meeting Time:	Meeting Place:	Status:	
Description: Got to review the PICs.			
Plan: Each clause which has a PICs should have some one reviewing it *before* the meeting, to produce a list of changes which may affect “shall” statements in the body of the clause. The reviewer(s) should also look for options and dependencies.			
Resolution:			

Plans for next meeting

- Sept 8-11th, 1997 - London, UK - hosted by 3Com
 - Strand Palace Hotel
 - Strand, London UK WC2R 0JJ
 - Phone +44 171 379 4737 (until 7pm GMT)
 - Fax +44 171 257 9025
 - Rate £117.00 single £131.00 double, including VAT & full English breakfast
 - Cutoff date 7-Aug-1997
 - Group name IEEE 802.3z
- Week of Sept 22nd, 1997 - Silicon Valley, CA
 - Probably Biltmore Hotel
 - Santa Clara, CA
 - HWY 101 & Montague Expwy
- Nov 10-14, 1997 - 802 plenary week, Montreal