IEEE 802.3z
Gigabit Task Force

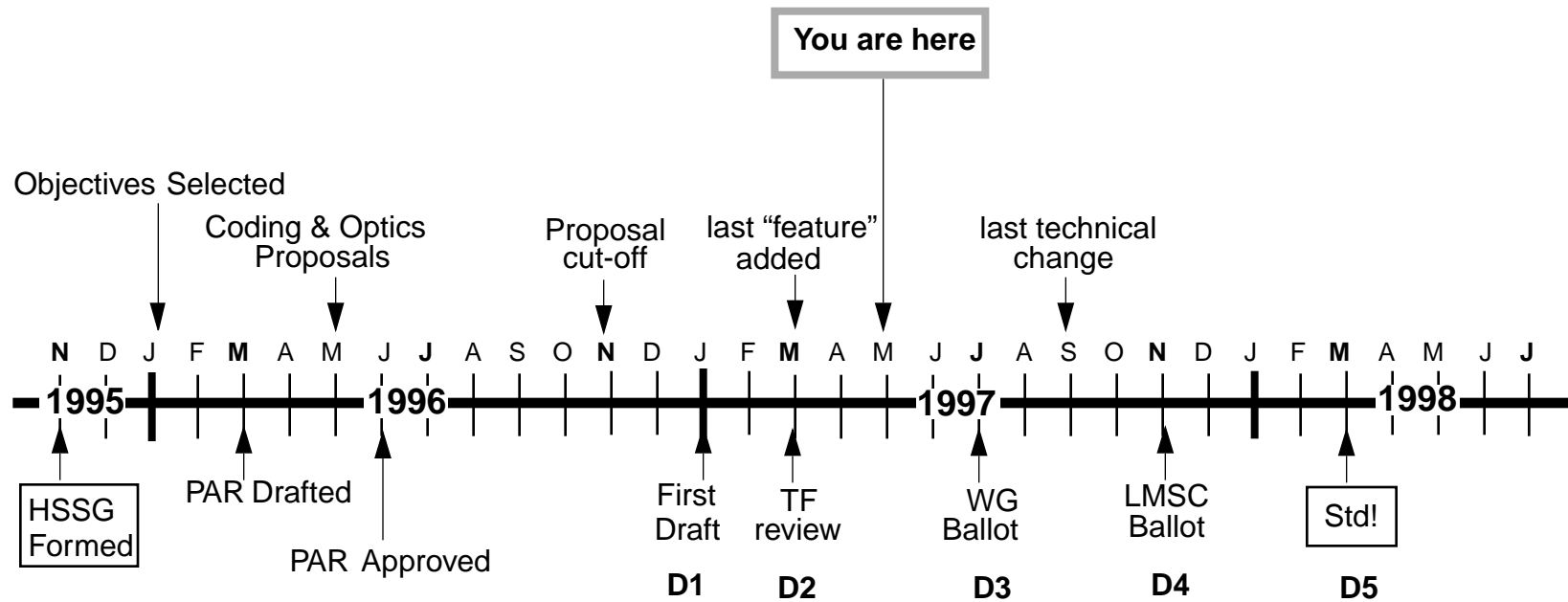## Agenda and General Information

Ft. Lauderdale, FL
14-May-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. Review HSSG objectives

___ 7. Distribution of documents

___ 8. Call for patents

___ 9. Liaison reports

___ 10. "Big Ticket" items

___ 11. Sub Task Force breakouts

___ 12. New business

___ 13. Plans for next meeting

___ 14. Approve minutes of March meeting

___ 15. Adjourn

IEEE P802.3z
Gigabit Task Force

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 9-Jan-97

- Distributed draft D2 24-Feb-97

- Distributed draft D2.1 on 1-May-97

Standards development timeline

You are here

Objectives Selected

Coding & Optics
Proposals

Proposal
cut-off

last "feature"
added

last technical
change

| N | D | J | F | **M** | A | M | J | **J** | A | S | O | **N** | D | J | F | **M** | A | M | J | **J** | A | S | O | **N** | D | J | F | **M** | A | M | J | **J** |

1995 ——— **1996** ——— **1997** ——— **1998**

HSSG
Formed

PAR Drafted

PAR Approved

First
Draft

TF
review

WG
Ballot

LMSC
Ballot

Std!

D1   **D2**   **D3**   **D4**   **D5**

E-mail reflector

- The IEEE has set up a reflector for this task force:

  stds-802-3-hssg@mail.ieee.org

- The 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

FTP/Web sites (cont)

■ Web based comment collection form is up and running

Use this form to submit comments on draft D2.1

Name: [   ]   Email: [   ]

Phone #: [   ]   Fax #: [   ]

Co/Org: [   ]   Clause: [01 ▭]

Page: [   ]   Subclause: [   ]   *e.g. 35.2.3.1*

Line: [   ]   ◇ Technical ◇ Editorial

Comment:

[   ]

Suggested Remedy:

[   ]

Please fill in all fields before clicking [submit] **Click** [Clear] **to start over**

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

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: HSSDC Connector	
Affected Clauses: 39	Owner: J. Thatcher	
Meeting Time:	Meeting Place:	Status:
Description: The short copper HSSDC connector needs material for draft D3.		
Plan: Produce specific text, figures, and references to include in D3.		
Resolution:		

Item#: 2	Title: PMD parameter TBDs	
Affected Clauses: 38, 39	Owner: J. Thatcher	
Meeting Time:	Meeting Place:	Status:
Description: Still alot of TBDs in 38 & 39		
Plan: Recommend values for each and every TBD or "target value" in clauses 38 and 39		
Resolution:		

"Big Ticket" Items

Item#: 3	Title: Jitter		
Affected Clauses: 38. 39	Owner: J. Thatcher		
Meeting Time:	Meeting Place:		Status:
Description: Fibre Channel Jitter Working Group will probably not reach closure in time for our WG ballot			
Plan: Revert to a more conventional specification for jitter			
Resolution:			

Item#: 4	Title: Management of Link Configuration		
Affected Clauses: 30, 35, 37	Owner: Law/Grow/Taborek		
Meeting Time:	Meeting Place:		Status:
Description: Need to trace Link Configuration status and control information from the state machines, up through the GMII management registers, and into clause 30 management attributes.			
Plan: Joint review to make sure that all controls and status are covered, and described consistently			
Resolution:			

"Big Ticket" Items

Item#: 5	Title: Thorough review of clause 37	
Affected Clauses: 37	Owner: R. Taborek	
Meeting Time:	Meeting Place:	Status:
Description: Clause 37 D2.1 has been seriously revised since D2. This includes major changes to the state machines as well as text.		
Plan: Perform a thorough review of the entire clause. Line by line through text and state machines.		
Resolution:		

Item#: 6	Title: GMII registers	
Affected Clauses: 35, 30, 36, 37, 40	Owner: B. Grow	
Meeting Time:	Meeting Place:	Status:
Description: The specification of GMII registers and bits in D2.1 was a necessary modification of the March meeting discussion.		
Plan: The D2.1 version needs to be confirmed, and carefully reviewed for consistency with other clauses that either define other registers, or that use or determine the value of specific bits in the base register set described in clause 35.		
Resolution:		

"Big Ticket" Items

Item#: 7	Title: GMII electrical	
Affected Clauses: 35, 40, 36	Owner: B. Grow	
Meeting Time:	Meeting Place:	Status:
Description: Reach closure on the concept, and agree to a set of numbers.		
Plan: Recommend values for each electrical parameter		
Resolution:		

Item#: 8	Title: SOP and EOP wording in 30.2.2.2.2.	
Affected Clauses: 30, 35	Owner: D. Law	
Meeting Time:	Meeting Place:	Status:
Description: The Repeater does not see the above delimiter signals. These signal are actually detected at GMII level and as such we define SOP/EOP terms only in GMII.		
Plan: Produce a new definition i.e. "beginning of a Frame or end of a Frame" in Clause 35 and tie that definition to text in 30.2.2.2.2.		
Resolution:		

"Big Ticket" Items

Item#: 9	Title: Behavior of aMediaAvailable		
Affected Clauses: 36, 38. 39. 30, 40, 35	Owner: D. Law		
Meeting Time:	Meeting Place:		Status:
Description: Need to validate the Behaviour text for "aMediaAvailable" attribute			
Plan: Review text.			
Resolution:			

Item#: 10	Title: Length of burstLimit		
Affected Clauses: 4	Owner: H. Frazier		
Meeting Time:	Meeting Place:		Status:
Description: Value of burstLimit still open for discussion.			
Plan: Review simulation data from M. Kalkunte. Resolve via motion			
Resolution:			

"Big Ticket" Items

Item#: 11	Title: IPG shrinkage	
Affected Clauses: 4, 41	Owner: H. Frazier	
Meeting Time:	Meeting Place:	Status:
Description: Need to add note warning about IPG shrinkage		
Plan: Review proposed text.		
Resolution:		

Item#: 12	Title: Repeater management	
Affected Clauses: 30, 41	Owner: Haddock	
Meeting Time:	Meeting Place:	Status:
Description: Substantial changes in D2.1 concerning repeater management. Differences between 10 Mb/s and 100 Mb/s repeater management encountered.		
Plan: Review text of D2.1. Decide whether to make 1000 Mb/s repeater management behave like 10 Mb/s or 100 Mb/s.		
Resolution:		

"Big Ticket" Items

Item#: 13	Title: Issues related to 1000BASE-T	
Affected Clauses: 35, 40	Owner: Eisler/Frazier	
Meeting Time:	Meeting Place:	Status:
Description: Provide input to 1000BASE-T to assist with selection of line coding proposal.		
Plan: Discussion.		
Resolution:		

Item#: 14	Title:	
Affected Clauses:	Owner:	
Meeting Time:	Meeting Place:	Status:
Description:		
Plan:		
Resolution:		

"Big Ticket" Items

Item#: 15	Title:		
Affected Clauses:		Owner:	
Meeting Time:		Meeting Place:	Status:
Description:			
Plan:			
Resolution:			

Item#: 16	Title:		
Affected Clauses:		Owner:	
Meeting Time:		Meeting Place:	Status:
Description:			
Plan:			
Resolution:			

Room assignments

Day	Time	Room 1	Room 2	Room 3	Room 4
Wed	9:00 - 12:00	802.3z and 802.3ab Joint Session			
Wed	1:00 - 5:30	Track I & Track II		Track III	1000BASE-T
Thu	9:00 - 12:00	Track I	Track II	Track III	1000BASE-T
Thu	1:00 - 5:30	Track I	Track II	Track III	1000BASE-T
Fri	9:00 - 12:00	Track I	Track II	Track III	1000BASE-T
Fri	1:00 - 5:30	802.3z and 802.3ab Joint Session			

Track I = System/Repeater/MAC/Management

Track II = GMII/PCS/Link Config

Track III = PMA/Short Cu/Optics

Plans for next meeting

- July 7-11, 1997 - 802 plenary week, Maui HI
- Sept, 1997 - London - hosted by 3Com
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- Must decide whether to hold an additional interim in the month of October when we meet in July
- Nov 10-14, 1997 - 802 plenary week, Montreal