Welcome

to the

Jan 18-20, 2000 INTERRUM MEETING

of the

802.3 HIGH SPEED STUDY GROUP

(soon to be: 802.3ae)

Dallas Texas

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World Wide Packets

BIG Thank You

To

Shawn Rogers

And

Texas Instruments

For

Hosting This Meeting!

Agenda

Welcome and Introductions

Select Recording Secretary

Review / Approve Agenda

Document Distribution

E-mail Reflector, Web Site, and Miscellaneous Information

Objectives for This Week

Call for Patents

Presentations

Old Business

New Business

Planing for March 2000 Meeting

Approve Minutes of November, 1999 Meeting

Review New Action Items

Adjourn

E-mail Reflector

The IEEE has set up a reflector for this study group:

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

The reflector can be used for announcements, comments, discussions, or dissemination of information related to the work of this study group

The reflector should not be used for recruiting, advertising, soliciting, flaming, whining, subscribing, or unsubscribing

To be added to the reflector, send an E- mail containing the following line:

subscribe stds-802-3-hssg <your email address>

to

majordomo@ mail.ieee.org

To send a message to the HSSG reflector use the email address:

stds-802-3-hssg@ieee.org

Subscriptions are on an individual basis only No proxy requests or reflectors will be subscribed

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IEEE Web Site

Typical Plenary Meeting Plan (HSSG will meet during "Task Force" slots):

http://grouper.ieee.org/groups/802/3/plenary.html

802.3ae 5 Criteria:

http://grouper.ieee.org/groups/802/3/10G_study/public/criteria.pdf

802.3ae PAR:

http://grouper.ieee.org/groups/802/3/10G_study/public/PAR.pdf

802.3 Voting Rules

http://grouper.ieee.org/groups/802/3/rules/member.html

802.3 Patent Policy

http://grouper.ieee.org/groups/802/3/patent.html

IEEE 802.3 Requirements for Working Group Voting Membership

If you wish to vote on 802.3 standards at the Working Group Ballot stage you need to become a Voting Member of Working Group 802.3.

Membership is by individual, not company.

To become a voter:

- Attend and sign the attendance book at least 75% of the sessions of two Working Group 802.3 Plenary meetings (within the last four).
- Full attendance at a two day or more duly constituted Working Group 802.3 Interim Meeting can be substituted for attendance at one plenary.
- Have complete and current contact information recorded in the Working Group 802.3 database.
- Request to become a voter during a Working Group 802.3 Opening or Closing plenary meeting when additions to the voter list are solicited by the Chair from the "Potential Voter" list.

To remain a voter you must:

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- Maintain current contact information in the Working Group 802.3 database.
- Have 75% attendance during at least two of the last four plenaries (Attendance at an interim can substitute for attendance at no more than 1 plenary).
 - Participate in Working Group ballots. You can be dropped for not returning or abstaining in two of the last three ballots.

The Attendance Books

SIGN "THE BOOK" EVERY DAY
KEEP IT MOVING
IF YOU ARE NEW, SIGN THE NEW-BEES
BOOK

- Put business card in back or fill out address...
- Sign this book every day; no forward signing

DO NOT REMOVE THE BOOK FROM THE ROOM; DO NOT COPY THE BOOK

Future Meetings

March 6-10; Albuquerque, NM

May 22-26; Ottawa

July 10-14; La Jolla, CA

Sept: ?Copenhagen, Denmark?

Other plenary meetings can be found in:

http://grouper.ieee.org/groups/802/minutes/mar1999/meetschd.pdf

No other interim mtg's planned; Request for hosts:

- If you would like to host a meeting for
 - 2000: Sept (alternative to Copenhagen)
 - ◆ 2001: Jan, May, Sept,

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Get authorization from your company and volunteer at this or future meeting

HSSG Objectives (1 of 2)

- Preserve the 802.3/Ethernet frame format at the MAC Client service interface.
- Meet 802 Functional Requirements, with the possible exception of Hamming Distance.
- Preserve minimum and maximum FrameSize of current 802.3 Std.
- Support full-duplex operation only.
- Support star-wired local area networks using point-to-point links and structured cabling topologies.
- Specify an optional Media Independent Interface (MII).
- Support proposed standard P802.3ad (Link Aggregation)
- Support a speed of 10.000 Gb/s at the MAC/PLS service interface

HSSG Objectives (2 of 2)

Define two families of PHYs

- A LAN PHY, operating at a data rate of 10.000 Gb/s
- A WAN PHY, operating at a data rate compatible with the payload rate of OC-192c/SDH VC-4-64c

Define a mechanism to adapt the MAC/PLS data rate to the data rate of the WAN PHY

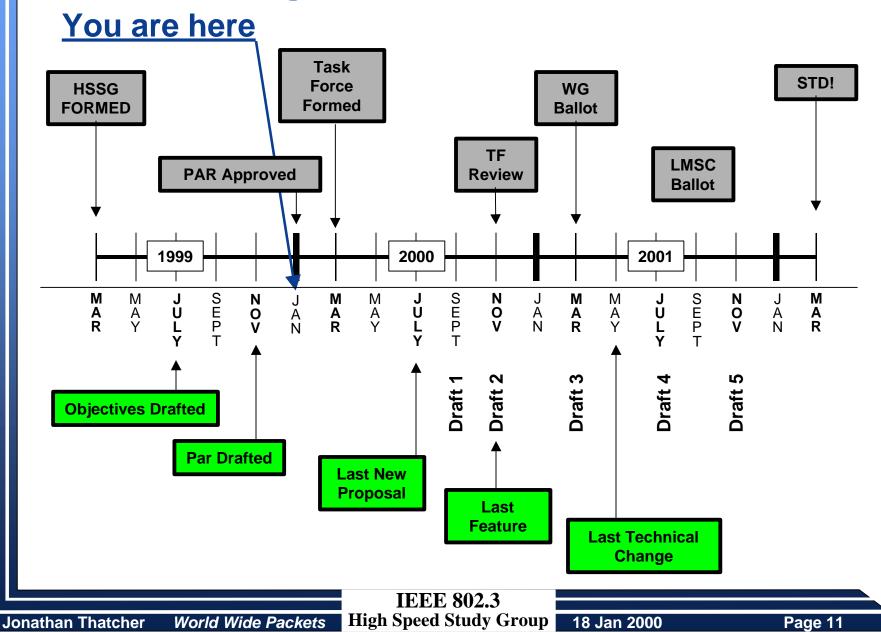
Provide Physical Layer specifications which support link distances of:

- At least 100 m over installed MMF
- At least 300 m over MMF
- At least 2 km over SMF
- At least 10 km over SMF
- At least 40 km over SMF

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Support fiber media selected from the second edition of ISO/IEC 11801 (802.3 to work with SC25/WG3 to develop appropriate specifications for any new fiber media).

Long Term Schedule



Short Term Schedule

Jan, 2000: NesCom

Approve PAR

March, 2000: 802.3 Plenary Meeting

- First official meeting of task force: 802.3ae
- Organize and structure the committee
- Close the "Brainstorming Phase"
- Begin to "Down-select" PMD Options (?)

May, 2000: Interim Meeting

Create "Baseline Proposal (Blue Book)"

Objectives for This Week

Priority One:

- "Come Together"
 - Hari Decision: Add; Kill; Postpone (with plan)
 - Plan for paring down PMD set
 - Plan for choosing coding scheme(s)

Priority Two:

- Recommendation to 802.3 on ITU Letter
- Plan for Albuquerque Plenary Meeting in March 2000

802.3 HSSG Procedure for Presenters (1 of 2)

Requesting Presentation Time:

- Presenter shall request time by Wednesday of the week preceding the presentation from the appropriate chair or sub-chair via direct email or using the reflector. Provide the following information:
 - Name of presenter
 - Title of presentation
 - Length of time requested
 - Brief description of topic
- If the schedule is missed, time will be provided on a best-can-do effort following the completion of the regular agenda (or as deemed appropriate by the chair or sub-chair).

802.3 HSSG Procedure for Presenters (2 of 2)

Uploading Presentations to the Web:

- Presenter shall send a PDF, soft copy version of the presentation to the "Web Master" by Wednesday of the week preceding the presentation for publication to the 802.3 web page.
- If the schedule is missed, the presenter will be allowed to present only if hard copies of the presentation are made available to the committee members at the beginning of the meeting during "document distribution" and a PDF, soft copy version of the presentation is made available to the "Web Master" prior to the beginning of the talk.

Motion 1

Adopt long term schedule goals (particularly cut-off dates)

Moved: Bill Quackenbush

Seconded: Tom Dineen

◆ Technical: >75% required

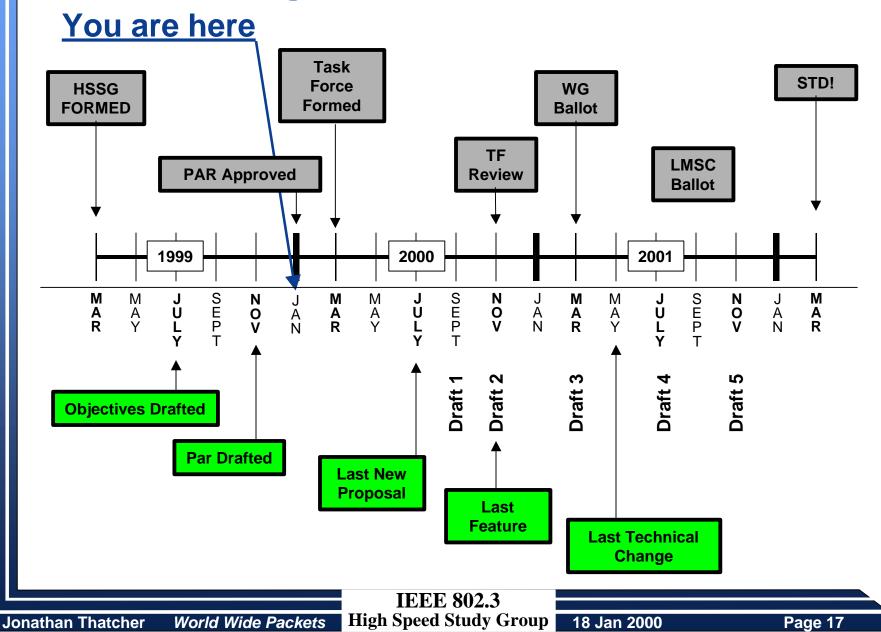
Yes:

• No:

• Abstain:

Per recommendation to not vote on this until the HSSG became the 802.3ae task force, this motion was withdrawn.

Long Term Schedule



Adopt draft:

"Modified 802.3(ae) HSSG Procedure for Presenters"

- Moved:
- * Seconded:
- Procedural: >50% required
 - Yes:
 - No:
 - Abstain:

After consultation, this procedure was adopted by the chair. No vote was taken. The chair asked if there were any conflicting opinions. There were none.

Membership on an 802.3ae Reflector

The 802.3ae Reflector is provided to the members of 802.3ae for the benefit of moving the work of the Task Force (TF) forward.

Communications are expected to be respectful, dignified, and germane to the work of the TF.

The reflector is not a "free speech" forum.

Subscriptions are granted by the TF to further its purposes and may be revoked for inappropriate communications. These include, but are not limited to: recruiting, advertising, soliciting, spamming, flaming, whining, and disparaging individuals or companies.

The chair shall enforce this policy.

Adopt draft:

"Membership on the 802.3 HSSG Reflector"

- Moved:
- Seconded:
- Procedural: >50% required
 - Yes:
 - No:
 - Abstain:

Since this is simply an interpretation of existing rules for 802.3, there was no vote taken.

This message will be sent to the reflector and put into the reflector's welcome message.

The HSSG (802.3ae) shall reduce the number of distinct PMD's being worked on to 7(?) by July, 2000 (?) and 3 (?) prior to Working Group Ballot. If possible, fewer is preferred.

Criteria 1, 4, and 5 should be applied in the process.

- Moved:
- Seconded:
- ◆ Technical: 75% required
 - Yes:
 - No:
 - Abstain:

No action was taken on this motion at the Dallas meeting. PMD (transceiver companies) were asked to come back with a plan for culling the number in March.

Add to the HSSG (802.3ae) Objectives: "Specify an optional PMD Interface (PMDI)."

- Moved:
- Seconded:
- ◆ Technical: 75%
 - Yes:
 - No:
 - Abstain:

With outside consultation, the chair decided that this work was within the scope of the objectives and no motion was needed.

The chair requested any motion that might overturn this decision. None was offered.

Motion

The HSSG (802.3ae) has reviewed the ITU letter and its technical basis and recommends that the 802.3

- Moved:
- Seconded:
- ◆ Technical: 75% re
 - Yes:
 - No:
 - Abstain:

The committee was not able to act on this motion because no tutorial explaining the implications of the ITU position was presented at this meeting.

This will be taken up at the March meeting.

Closing Discussions

- Thank you to Presenters for Getting Advance Presentations on the Web
- Thank you to Presenters for Getting Requests for Time in Advance of the Meeting
- Use of Reflector
- Planning for March Meeting ("Making Tracks")
- Approve Minutes of Kauai Meeting
- Review New Action Items
- Adjourn

Issues

Files to the web (vs attaches)
Moving from HSSG to 802.3ae
Continuation of Fiber Study