

# 802.3ae Interim Meeting

Sept 12-14, 2000

**New Orleans**

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# Agenda

- **Welcome and Introductions**
- **Appoint Recording Secretary**
- **Review / Approve Agenda**
- **E-mail Reflector, Web Site, and Miscellaneous Information**
- **Call for Patents**
- **Schedule Review & Meeting Objectives**
- **Document Distribution**
- **Presentations (motions)**
- **Review Draft 1.0**
- **New Business**
- **Planning for November 2000**
- **Approve Minutes of May, 2000 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](mailto: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](mailto:majordomo@mail.ieee.org)**

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

**[stds-802-3-hssg@ieee.org](mailto:stds-802-3-hssg@ieee.org)**

Subscriptions are on an individual basis only

No proxy requests or reflectors will be subscribed

# IEEE Web Site

**Typical Plenary Meeting Plan (802.3ae 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/ae/criteria.pdf>

**802.3ae PAR:**

<http://grouper.ieee.org/groups/802/3/ae/PAR-802-3ae.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>

**802.3 Presentation Policy**

<http://grouper.ieee.org/groups/802/3/ae/public/presentproc.html>

# IEEE Private Site

# WRITE THIS DOWN!

Simply go to the URL:

<http://www.ieee802.org/3/ae/private/index.html>

and type in the

Username: 802.3ae

Password: \*\*\*\*\*

# 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:**

- 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 RIGHT BOOK” every day!!!

If you are new, sign the “NEW-BEES BOOK”

- Put business card in back or fill out address...

Keep them moving!!!

No forward signing!!!

**DO NOT REMOVE THE BOOKS FROM THE  
ROOM; DO NOT COPY THE BOOKS**

# Future Meetings

**Other plenary meeting details at:**

<http://grouper.ieee.org/groups/802/minutes/july2000/index.html>

**No other interim meetings planned;**

- If you would like to host a meeting for Jan, May, or Sept 2001,
- 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:

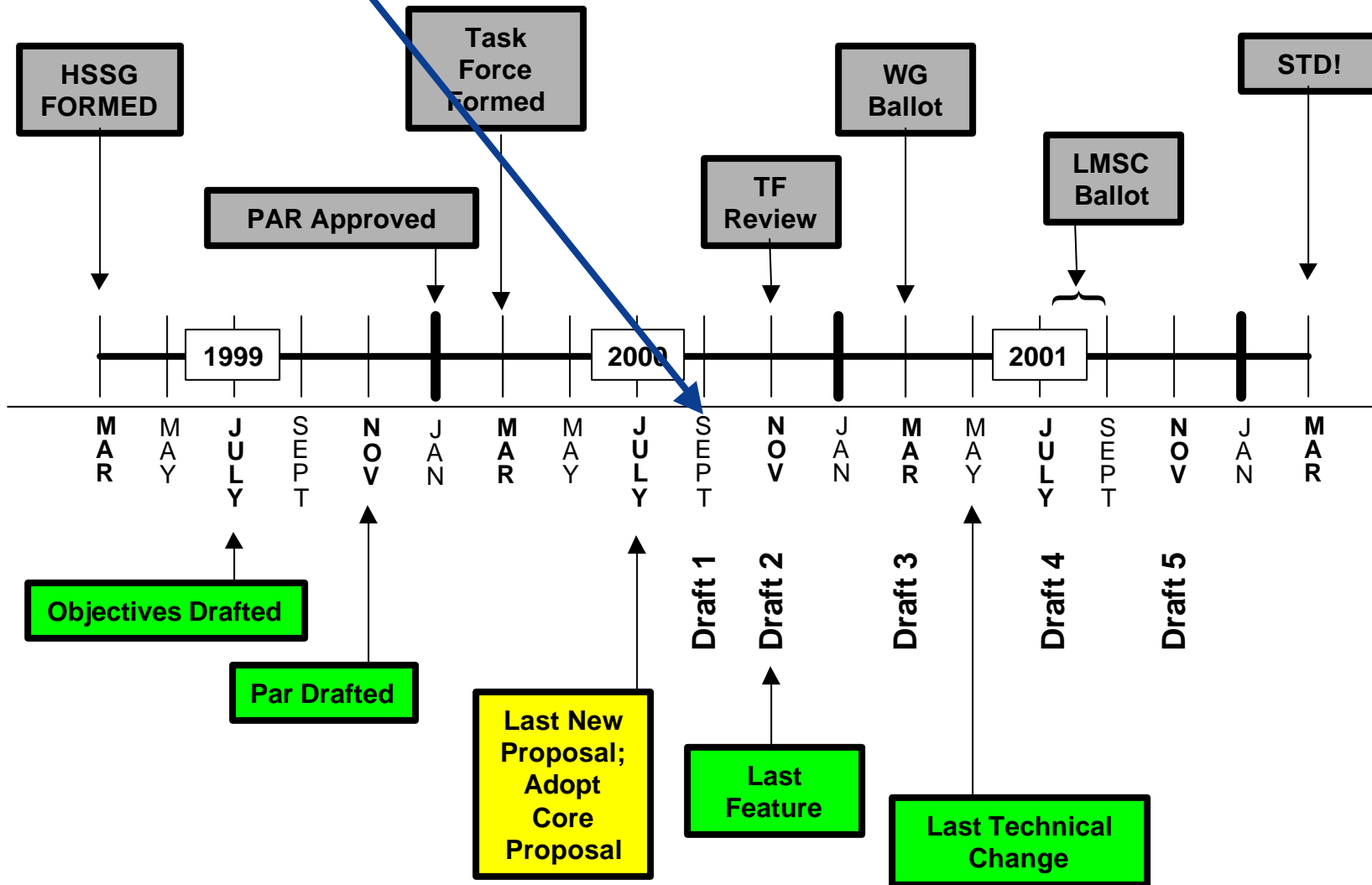
- At least 100 m over installed MMF
- At least 300 m over MMF
- At least 2 km over SMF
- At least 10 km over SMF
- At least 40 km over SMF

## 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).

# Call for Patents....

# Long Term Schedule

You are here



# Objectives For The Week

1. **Select MMF PMDs**
2. **Identify key issues with draft 1.0**
  - Solve what we can
  - Organize SWAT teams
3. **Resolve BL/RF/OAM&P**
4. **Identify a plan for connectors**

## Key Issues are:

1. Things that involve multiple clauses
2. Things that will require significant work

## Key Issues are not:

1. Editorial in nature
2. "Shall" statements (this meeting only)

# Big Ticket Items

## MAC:

- IPG Rules

## XGMII:

- SSTL v. e.g., HSTL
- Single-ended v. Differential clock

## XAUI:

- Initialization protocol (ties to RF & BL)
- Remote Fault & Break Link transport
- Signal Detect transport (medium to PCS)

# Big Ticket Items

## **WIS:**

- Clocking and Errors
- Undefined Overhead Bytes

## **PMA:**

- Clock Utilization

## **PMD:**

- Signal Detect
- Jitter Methodology
- Test Patterns
- Connector

## **MDC/MDIO:**

- Optionality

# Big Ticket Items

## 10GBASE-R PCS:

- State Machine Refinement



# Multi-Clause Issues

## Delay Budget

## Preamble Checking

- Error checking in Preamble

## Error Propagation through layers

## Packet Sequence Checking

- In RS, state machine needed?

## Clocking

- Where is the Master Clock

# **DOCUMENT DISTRIBUTION**

**Now is the time for all presentations that were not uploaded to the reflector last Wednesday to be distributed....**

**Check off on presentation agenda**

# Closing Discussions

- Approve venue for January Meeting
- Discuss venue for May Meeting
- Discuss venue for Sept Meeting
- Presentation uploads
- Old Business (none)
- 10GEA invite
- Track Reports (motions)
- Equalization Ad-Hoc
- Other Ad-Hoc/Swat Teams; reflectors?
- Discussion on connectors
- May 2001 Meeting Options
- New Business / Other Motions
- Approve Minutes of Ottawa Meeting
- Review New Action Items
- Adjourn

**Move that the IEEE P802.3ae task force does not define any specific MDI connector style. The task force shall define the MDI connection orientation.**

**Motion to Table the above:**

**Moved: Walt Thirion**

**Second: Roy Bynum**

**Procedural (802.3 voters) – Y= 30, N= 8, A= 1 – 802.3 voters**

**Moved: Tad Szostak**

**Second: Schelto VanDoorn**

**Technical:**