

IEEE 802.3 Study Group **10Gb/s PHY for EPON**

Agenda and General Information

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Outline

- Recording Secretary
- Welcome and introductions
- Approval of last meeting minutes
- Reflector and web
- Agenda for this meeting
- Presentations and Meeting Schedule
- Study group timeline
- Ground rules
- Patent Policy
- Future work and next meeting
- Wrap up

Reflector and Web

- Currently 220 subscribers on 10GEPON SG reflector

- To subscribe to 10GEPON reflector, send email to:

listserv@ieee.org

and include this line in the *body of the message*:

subscribe stds-802-3-10GEPON *firstname lastname*

- Our web site is located at:

http://www.ieee802.org/3/10GEPON_study/

Meeting Agenda

- **Unfinished Business:** Discuss requirements for backward-compatibility, co-existence, wavelength plan.
- **First Order of New Business:** Hear presentations on technical feasibility of 29 dB power budget.
- **Other topics:** FEC, asymmetric rate, 64B/66B line coding.

Schedule for Tuesday, July 18, 2006

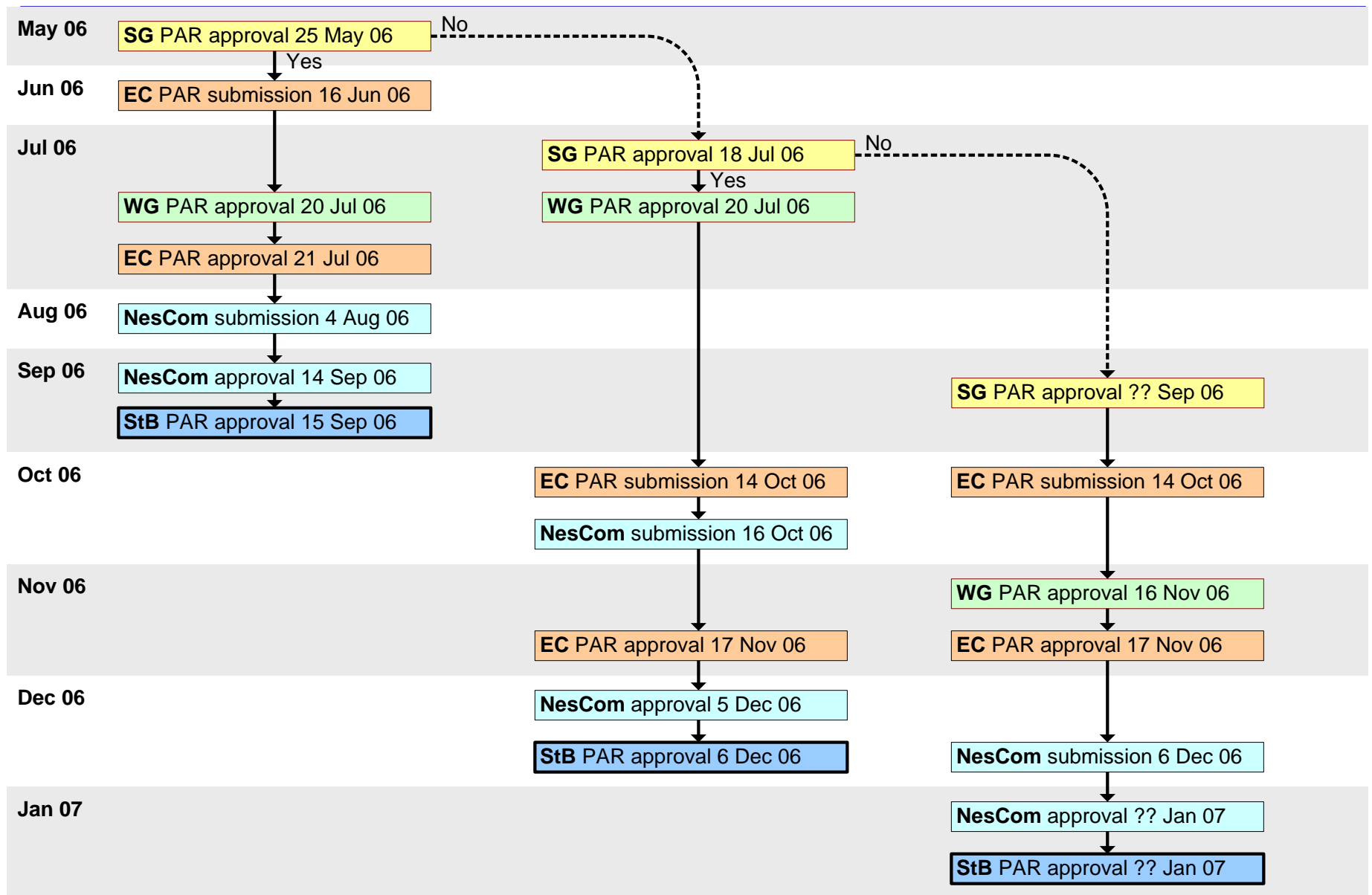
Start	Finish	Presenter	Company	Title
9:00 AM	9:30 AM	Glen Kramer		Agenda, Information, Patent Policy
Backward Compatibility/Co-existence/Wavelength plan				
9:30 AM	9:45 AM	Ryan Hirth	Teknovus	1Gbps to 10 Gbps Migration
9:45 AM	10:00 AM	Toshiaki Mukojima	Oki	Backward Compatibility and Co-Existence
10:00 AM	10:20 AM	Roger Merel	Luxtera	Backward Compatibility
10:20 AM	10:45 AM	Coffee Break		
10:45 AM	11:00 AM	Keiji Tanaka	KDDI R&D	System Configuration
11:00 AM	12:00 PM	Akihiro Otaka	NTT	Motion and Discussions, Voting
12:00 PM	1:30 PM	Lunch		
1:30 PM	2:15 PM	Pat Thaler	Broadcom	64B/66B Encoding (*special time request)
Technical Feasibility of 29 dB Power Budget				
2:15 PM	2:40 PM	Frank Chang	Vitesse	10G EPON Optical Budget Considerations
2:40 PM	3:00 PM	Frank Effenberger	Huawei	10Gb/s PMD Considerations
3:00 PM	3:30 PM	Roger Merel	Luxtera	PMD Proposal Considerations
3:30 PM	3:45 PM	Coffee Break		
3:45 PM	4:00 PM	Akihiro Otaka	NTT	Background of the 29dB Requirement
4:00 PM	4:15 PM	Motoyuki Takizawa	Fujitsu	Optical Budget for 10G-EPON
4:15 PM	4:30 PM	Akira Takahashi	Mitsubishi	Experimental Consideration on EPON Transmission
4:30 PM	4:45 PM	Mitsunobu Kimura	Hitachi	Feasibility at 29dB Loss Budget
4:45 PM	5:00 PM	Hiroshi Murata	Sumitomo	A PMD Class Supporting 29 dB Link Budget

Schedule for Wednesday, July 19, 2006

Start	Finish	Presenter	Company	Title
Technical Feasibility of 29 dB Power Budget (continued)				
9:00 AM	9:30 AM	Hiroataka Wada	NEC	29dB Budget Technical Feasibility for "10Gb/s EPON"
9:30 AM	10:30 AM	Haim Ben-Amram	PMC Sierra	Serial 10G Downstream using FEC
10:30 AM	10:45 AM	Coffee Break		
10:45 AM	11:00 AM	Dong-Soo Lee	ETRI	Technical Feasibility of 10Gb/s EPON
11:00 AM	11:15 AM	Toshiaki Mukojima	Oki	Considerations for 10Gb/s EPON PHY
Other Topics				
11:15 AM	12:00 PM	Bin Yeong Yoon	ETRI	Advent of 10G Asymmetric EPON
12:00 PM	1:30 PM	Lunch		
1:30 PM	2:15 PM	Jeff Mandin	PMC Sierra	FEC Framing

Wednesday afternoon or Thursday morning – may visit other work groups to answer questions

Study Group Timeline



Ground Rules

- Anyone in the room may speak (when recognized by the chair)
- Anyone in the room may vote (if we vote on anything)
- Be aware and do not discuss any inappropriate topics:
(rule set by IEEE-SA Standards Board – Mar 2003, Revised Feb 2006)
 - Product pitches, corporate pitches
 - Validity/essentiality of patents/patent claims
 - Cost of specific patent use
 - Licensing terms or conditions
 - Product pricing, territorial restrictions, or market share
 - Ongoing litigation or threatened litigation

Don't be silent if inappropriate topics are discussed...
do formally object.

Instructions for the WG Chair

- **At Each Meeting, the Working Group Chair shall:**
- **Show slides #1 and #2 of this presentation**
- **Advise the WG membership that:**
 - The IEEE's patent policy is consistent with the ANSI patent policy and is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
 - Early disclosure of patents which may be essential for the use of standards under development is encouraged;
 - Disclosures made of such patents may not be exhaustive of all patents that may be essential for the use of standards under development, and that neither the IEEE, the WG, nor the WG Chairman ensure the accuracy or completeness of any disclosure or whether any disclosure is of a patent that, in fact, may be essential for the use of standards under development.
- **Instruct the WG Secretary to record in the minutes of the relevant WG meeting:**
 - That the foregoing advice was provided and the two slides were shown;
 - That an opportunity was provided for WG members to identify or disclose patents that the WG member believes may be essential for the use of that standard;
 - Any responses that were given, specifically the patents and patent applications that were identified (if any) and by whom.

IEEE-SA Standards Board Bylaws on Patents in Standards

6. Patents

IEEE standards may include the known use of essential patents and patent applications provided the IEEE receives assurance from the patent holder or applicant with respect to patents whose infringement is, or in the case of patent applications, potential future infringement the applicant asserts will be, unavoidable in a compliant implementation of either mandatory or optional portions of the standard [essential patents]. This assurance shall be provided without coercion. The patent holder or applicant should provide this assurance as soon as reasonably feasible in the standards development process. This assurance shall be provided no later than the approval of the standard (or reaffirmation when a patent or patent application becomes known after initial approval of the standard). This assurance shall be either:

- a) A general disclaimer to the effect that the patentee will not enforce any of its present or future patent(s) whose use would be required to implement either mandatory or optional portions of the proposed IEEE standard against any person or entity complying with the standard; or
- b) A statement that a license for such implementation will be made available without compensation or under reasonable rates, with reasonable terms and conditions that are demonstrably free of any unfair discrimination.

This assurance is irrevocable once submitted and accepted and shall apply, at a minimum, from the date of the standard's approval to the date of the standard's withdrawal.

Inappropriate Topics for IEEE WG Meetings

- Don't discuss the validity/essentiality of patents/patent claims
- Don't discuss the cost of specific patent use
- Don't discuss licensing terms or conditions
- Don't discuss product pricing, territorial restrictions, or market share
- Don't discuss ongoing litigation or threatened litigation
- Don't be silent if inappropriate topics are discussed... do formally object.

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit <http://standards.ieee.org/board/pat/index.html>

This slide set is available at <http://standards.ieee.org/board/pat/pat-slideset.ppt>

Future IEEE 802 Meetings

2006

March 5-10	Hyatt Regency Denver at the Colorado Convention Center, Denver, Colorado USA
July 16-21	Grand Hyatt Manchester, San Diego, CA USA
November 12-17	Hyatt Regency Dallas, TX USA

2007

*January 14-19	Hilton London Metropole, London, UK *(IEEE 802 Hosted Interim Session)
March 11-16	Caribe Royale, Orlando Florida USA
July 15-20	Hyatt Regency San Francisco, CA USA
November 11-16	Hyatt Regency Atlanta, GA USA

2008

March 16-21	Hyatt Regency New Orleans, Louisiana USA
July 13-18	Hyatt Regency Denver at the Colorado Convention Center, Denver, Colorado USA
November 9-14	Hyatt Regency Dallas, TX USA