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# **IEEE 802.3 Working Group Opening Plenary 17 July 2006**

Robert M. Grow  
Chair, IEEE 802.3 Working Group  
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# Introductions & Agenda (p.1)

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- Officers
    - 802.3 Chair: Bob Grow (bob.grow@ieee.org)
    - 802.3 Vice Chair: David Law (david\_law@3com.com)
    - 802.3 Exec. Secretary: Steve Carlson (scarlson@esta.org)
    - 802.3 Secretary: Wael Diab (wdiab@broadcom.com)
    - P802.3an 10GBASE-T: Brad Booth (bbooth@ieee.org)
    - P802.3ap Backplane Ethernet: Adam Healey (ahealey@agere.com)
    - P802.3aq 10GMMF: David Cunningham (david\_cunningham@avagotech.com)
    - P802.3ar Congestion Mgt: Kevin Daines (kevin.daines@wwp.com)
    - P802.3as Frame Expansion SG: Kevin Daines (kevin.daines@wwp.com)
    - P802.3at DTE Power via the MDI Enhancements: Mike McCormack (mike\_mccormack@ti.com)
    - 10G EPON SG (proposed P802.3av) Glen Kramer (glen.kramer@tekновus.com)
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# Introductions & Agenda (p.2)

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- Attendee introductions

Each individual participant in IEEE Standards activities shall disclose his or her affiliations when requested. A person who knows, or reasonably should know, that a participant's disclosure is materially incomplete or incorrect should report that fact to the Secretary of the IEEE-SA Standards Board and the appropriate Sponsor(s). [IEEE-SA SB Bylaws, 5.2.1.1]

Timely and adequate notice of any action to create, revise reaffirm, or withdraw a standard, and the establishment of a new consensus body shall be provided to all known directly and materially affected interests. Notice should include a clear and meaningful description of the purpose of the proposed activity and shall identify a readily available source for further information. In addition, the name, affiliation and interest category of each member of the consensus body shall be made available to interested parties upon request.

“Affiliation” refers to the entity that the consensus body member\* represents (which may or may not be that person's employer). If the consensus body member is serving in an individual capacity, then the name of the individual, that person's employer, sponsor and interest category should be available. Contact information is not required. [ANSI Essential Requirements, 2.1]

\*For the purposes of this requirement, “member” is the equivalent of an 802. participant.”

- Approve agenda

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# WG Decorum

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- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (2006 Op Manual 5.3.15)
- Photography or recording by permission only (5.3.14)
- Cell phone ringers off
- Wear your badges at all times in meeting areas

# Published Standards

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- IEEE Std 802.3<sup>TM</sup>-2005 (12 Dec 2005)\*
  - IEEE Std 802.3-2005/Cor 1-2006 (26 June 2006)
  - IEEE Std 802.3an-2006 (target publication Aug 2006)
- IEEE Std 1802.3Rev-2001\*

\* Available through Get IEEE 802  
<http://standards.ieee.org/getieee802/802.3.html>

# Reflectors and WG information

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- IEEE 802.3 Working Group ([stds-802-3@ieee.org](mailto:stds-802-3@ieee.org)) is a monitored reflector for announcements of WG business
  - Not a general discussion reflector
  - Subscription limited to members and observers
- IEEE 802 plenary meeting announcements ([stds-802-all@ieee.org](mailto:stds-802-all@ieee.org))
- IEEE 802.3 interim meetings are announced on the 802.3 and relevant TF/SG reflector
- IEEE 802.3 TF/SG reflectors are the location for appropriate project related discussion
- Reflector subscription
  - <http://listserv.ieee.org> or instructions on the 802.3 web pages
- Web site
  - [www.ieee802.org/3](http://www.ieee802.org/3)
  - Access information to private areas is announced by Vice Chair, TF/SG Chairs and in WG announcements

# WG documents for July business

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- P802.3ap/D2.5 (Backplane Ethernet)
  - 5<sup>th</sup> recirculation WG ballot comments
- P802.3aq/D4.0 (10GBASE-LRM)
- P802.3ar/D1.3 (Congestion Management)
  - Task Force review comments
  - Modified PAR & Five Criteria
- P802.3as/D3.2 (Frame Format Extensions)
  - 2<sup>nd</sup> recirculation Sponsor ballot comments
- P802.3av (10G EPON) PAR & Five Criteria
- Posted maintenance, interpretation and rules requests
- 802.3 minutes
  - Approval of March minutes

## 802.3 Finances

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- No meetings hosted by 802.3 Treasury
- Treasury is solvent
  - Net balance \$10,292
  - Some meeting expenses paid and bank expenses
- Still looking for an 802.3 Treasurer



# Attendance

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- Membership requirements (acquiring or retaining 802.3 voter status)
    - 75% attendance at 2 of last 4 plenary meetings (a qualifying interim may be substituted for one plenary)
    - Request to become member during 802.3 potential voter agenda item
    - Maintain valid contact information (stds-802-3 reflector)
    - Participate in 2 of last 3 WG ballots
  - Attendance books
    - Sign in each day, only for that day, only for yourself, and not for any other Working Group (no parallel sign-ins)
    - Two books
      - Members and observers (i.e., signed in during last year)
      - New attendees & update contact information
  - Review membership lists – potential voters
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# 802.3 Members (voters) p.1

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Abaye, Ali	Bennett, Mike	Busse, Robert
Abbott, John	Bergmann, Ernest E.	Cain, Jeff
Abler, Joe	Bhoja, Sudeep	Carlson, Steve
Adriaennsens, Luc	Bhugra, Harmeet	Chalupsky, David
*Agarwal, Puneet	Bonnamy, Jean-Michel	Chang, Luke
*Alping, Arne	Booth, Brad	Chin, David
Altman, Michael	*Bradshaw, Peter	*Cho, Jae hun
Anderson, Stephen D.	*Brand, Richard	Chopra, Rahul
Aronson, Lewis	Braun, Ralf-Peter	Claseman, George
Babanezhad, Joseph N	*Brink, Robert D.	Cobb, Terry
Barrass, Hugh	Brown, Kevin	Cohen, Larry
Baumer, Howard	Brown, Matt	Crepin, J. Francois
Beaudoin, Denis	Brownlee, Phillip	Cunningham, David
Beck, Michaël	Brunn, Brian	D'Ambrosia, John
Beliaev, Alexei	Brunner, Robert	Daines, Kevin

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## 802.3 Members (voters) p.2

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Dallesasse, John	Feng, Feifei (Felix)	*Hazarika, Asif
Darshan, Yair	Flatman, Alan	Healey, Adam
Dawe, Piers	Frosch, Richard	*Hindi, Sammy
DeNicholas, Joe	*Fujimoto, Yukihiro	Hurwitz, Walter K.
Di Minico, Chris	*Gaither, Justin	Jaeger, John
Diab, Wael	Ganga, Ilango S.	*James, David V.
Dineen, Thomas	Gao, Xiao Ming	Jimenez, Andrew C.
Dinh, Thuyen	Garner, Geoffrey M	Johas Teener, Michael
Dove, Dan	George, John	*Jolly, Cristopher
Dudek, Mike	Ghiasi, Ali	Jones, Chad
Dupuis, Joseph E.	Ghoshal, Sajol	Jones, William W.
Eisler, George	Goergen, Joel	*Joo, Seong-Soon
Esmailian, Tooraj	Grow, Robert M.	Jørgensen, Thomas K.
Ewen, John F.	Gyurek, Russ	Jover, Juan
Feldman, Daniel	Hammond, Bernie	*Kaku, Shinkyō

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## 802.3 Members (voters) p.3

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Kasturia, Sanjay

Kim, Yong

King, Jonathan

Kish, Paul

Koeman, Henriecus

Koenen, David J.

Kolesar, Paul

Koonce, Derek

Kundu, Aniruddha

\*Kwentus, Alan

Lackner, Hans

Landry, D. Matthew

Langston, Daun

Lapak, Jeff

Law, David

Lerer, Michael

Lertniphonphun,  
Worayot

Lindsay, Tom

Lingle, Jr., Robert

\*Lobel, Martin

\*Lou, Dennis

\*Lynch, Jeffrey

Lynskey, Eric R.

Marris, Arthur

Mathey, Thomas

McCarthy, Frank

McClellan, Brett

McConnell, Mike

McCormack, Michael S

McVey, James D.

Mei, Richard Y.

Mellitz, Richard

Mezer, Amir

Mick, Colin

Monson, John

Moore, Charles

Mueller, Wayne A.

Muller, Shimon

Nordin, Ron

Obara, Satoshi

\*Oltmanns, Mike

Palkert, Tom

Panos, Bill

Parsons, Glenn

# 802.3 Members (voters) p.4

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Patoka, Martin

\*Peeters Weem, Jan P.

Peker, Arkadiy

Pepeljugoski, Petar

\*Peters, William R.

\*Phanse, Abhijit

Piede, David

Pimpinella, Rick

Plunkett, Timothy R.

Popescu, Petre

Powell, Scott R.

\*Qian, Haoli

Rabinovich, Rick

Rao, Sailesh K.

Rausch, Dan

Reintjes, Maurice

\*Reviriego, Pedro

\*Rommel, Albrecht

Rybinski, Valerie

Ryu, Hyunsurk (Eric)

Savi, Olindo

Sawyer, T. Shannon

Schube, Scott

\*Seemann, Brian

Sendelbach, Lee

Shanbhag, Abhijit

Shorthill, Larry

Smith, Andrew

Spagna, Fulvio

Sparrowhawk, Bryan

Stanford, Clay

Swanson, Steve

Swenson, Norman

Szczepanek, Andre

Telang, Vivek

Tellado, Jose

Thaler, Pat

Thompson, Geoffrey

Thon, Lars E.

Tomaszewski, Peter

\*Toyoda, Hidehiro

Twu, Bor-long

Ungerboeck, Gottfried

Vaden, Sterling A.

Valliappan, Magesh

# 802.3 Members (voters) p.4

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Van Bavel, Nicholas  
van Doorn, Schelto  
VanSchyndel, Andre  
\*Vareljian, Albert  
Von Herzen, Brian  
Weiner, Nick  
Woodruff, Bill  
Yagil, Ariel  
Zimmerman, George

**\*in peril of losing membership**

# Potential Members (voters) p.1

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Ahmed, Taufique	Dalmia, Kamal	Huang, Ching-Chao
Anderson, Doug	Delveaux, Bill	Huynh, Thong
Balasubramonian,	DeSanti, Claudio	Jetzt, John
Barazande-Pour, Majid	Dwellely, David	Jung, Hee won
Barnette, Jim	Fallahi, Siavash	Katzenberg, Boris
Barrick, Scott	Frazier, Howard	Kawashimo, Tatsuya
Battaglia, Jim	Galindo, Juan A.	Ko, Mike
Beia, Christian	Golden, Glenn	Kondapalli, Raghu
Belopolsky, Yakov	Gray, Carl Thomas	Kothary, Piyush
Brearley, Dave	Griggs, Brian	Kramer, Glen
Chang, Frank	Hajduczenia, Marek	Krellner, Jan
Charny, Ben	Halder, Bijit	Langner, Paul
Clifton, Zachary	Hatab, Ziad	Lari, Ferdinando
Collum, James	Ho, Ricky Keang-Po	Lee, Dong-Soo
Conroy, Keith	Hopwood, Keith	Lee, Hyeon-jae

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# Potential Members (voters) p.2

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Liu, Cathy

Liu, Zhenyu

Michaud, Sean

Moorwood, Andy

Mukhopadhyay,

Nabili, Babak (Bobby)

Nielsen, Allan

Nishimura, Shinji

Noseworthy, Bob

Oganessyan, Gourgen

Oulundsen, III, George

Patel, Gautam

Perzow, John D.

Picard, John

Puleo, Mario

Liu, Cathy

Liu, Zhenyu

Michaud, Sean

Moorwood, Andy

Mukhopadhyay,

Nabili, Babak (Bobby)

Nielsen, Allan

Nishimura, Shinji

Noseworthy, Bob

Oganessyan, Gourgen

Oulundsen, III, George

Patel, Gautam

Perzow, John D.

Picard, John

Puleo, Mario

Quilici, Jim

Radhakrishnan, Prakash

Rautenberg, Peter

Robbins, Steve

Sastry, Ramesh

Savara, Raj

Schindler, Fred

Schwarzenberg, David

Shariff, Masood

Stetter, Claus

Trowbridge, Stephen J.

Tsukahara, Tomo

Tuck, Fred

Walling, Ing. J.-H (Jo)

Wang, Chenxi



# Potential Members (voters) p.3

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Yang, Yaochao

Yang, Yinglin (Frank)

Yoon, Bin Yeong

Yoon, Chong Ho

- ◆ *Requested to become member (Monday)*
- *Requested to become member (Thursday)*

# Interim TF & SG meetings held

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- Santa Clara, CA, USA 12 Apr 2006
  - P802.3an, 10GBASE-T
- Santa Clara, CA, USA, 18 Apr 2006
  - P802.3as, Frame Format Extensions
- San Diego, CA, USA, 19 Apr 2006
  - 802.3au, Corrigendum 1
- Beijing, China, 15-16 May 2006
  - P802.3ar, Congestion Management
  - P802.3as, Frame Format Extensions
- Austin, TX USA, 22-25 May 2006
  - P802.3an, 10GBASE-T
  - P802.3ap, Backplane Ethernet
  - P802.3aq, 10GBASE-LRM
  - P802.3at, DTE Power Enhancements
  - 10G EPON SG
  - Maintenance

# 802.3 ballots since March

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- Sponsor Ballot invitations:
  - 1802.3 reaffirmation (closing 29 Jul)
- Working Group Ballots:
  - P802.3ap/D2.4, D2.5 recirculation
  - P802.3-2005/Cor1/D1.2 recirculation
- Sponsor Ballots:
  - P802.3an/D3.2, D4.0, recirculation
  - P802.3aq/D3.2, D4.0, recirculation
  - P802.3as/D3.0, D3.1, D3.2 initial ballot and recirculation
  - P802.3-2005/Cor1/D2.0 initial ballot

# **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](mailto: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>



# The WG is advised

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- 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.

# March Standards Board (p. 1)

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- Standards Board
  - All LMSC RevCom and NesCom projects approved
  - Discussion of stabilized standards
  - Sponsor P&P (under development) mandatory for standards work
  - Executive session
- ProCom recommendations
  - Interest group definitions
  - Entity WG chair requirements (amended by AdCom)
  - Entity project participation fee
  - Changes related to myProject PAR form
- ProCom discussion items
  - Language requiring annual financial report
  - Dominance and openness, ad hoc established

# March Standards Board (p. 2)

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- PatCom
  - Identification of essential claims
  - Clear identification of blanket LOA
  - Survival of LOA through merger and assignment, specific exclusions allowed, legal language improvements
  - Applicability of LOA: original scope of application, survives revision
  - Allow not to exceed rates, allow sample terms, discussion of reasonable rates
  - Unresolved: parent organizations, scope of knowledge of signer, Proposed changes to policy – continuation of June discussion
    - Lawyers from multiple high tech companies present
    - If your employer cares about the IEEE patent policy, they should pay attention
  - Require all participants to submit an LOA?



# June Standards Board (p. 1)

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- Standards board
  - Conflict of interests policy
  - All LMSC RevCom and NesCom projects approved
  - P&P are those accepted by AudCom, online via AudCom
  - EPO access to drafts
  - Continued discussion of stabilized standards
  - Executive session
- ProCom recommendations
  - Language for mandatory financial reports
  - Balloter access to base documents
  - Project numbering by NesCom administrator
  - P&P audited against baseline (model) P&P

# June Standards Board (p. 2)

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- ProCom discussion items
  - Dominance and Openness
  - Meeting notice requirements
- PatCom
  - Use of technology from other standards, new LOA required (e.g., P1394c)
  - ANSI patent policy changes submitted to ANSI IP Committee for approval
  - Drafting committee report and extensive discussion
    - Bylaws
    - Operations Manual
    - LOA form

# LMSC EC Report p.1

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- Need January (London, UK) commitment
- 802.20 suspended until 1 Oct 2006 by SASB
  - Appeals will continue
  - Website and reflectors modified
  - Mr. Upton retains EC membership
  - Comments to [802\\_comments@ieee.org](mailto:802_comments@ieee.org), check requirements for submission
- Anonymous letter received with allegations about practices and procedures associated with IEEE 802 meetings
  - Dorsey & Whitney has been retained by IEEE BoD to perform an independent investigation

# LMSC EC Report p.2

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- ISO/IEC JTC1 SC6 has proposed projects overlapping many of our wireless projects
  - Chair's meeting will be held to discuss relationship with ISO
- Get IEEE 802 program viability still an item of work
  - \$200k annual shortfall projected for 2007
  - Fee increase? Nominal save/print charge?
- Ms. Kenney appointed as IEEE 802 ombudsman (802ombudsman@ieee.org)
- Attendance software pilot this meeting
  - Requirements document after this meeting
  - 802.15 and 802.11 trying different pilots

# LMSC EC Report p.3

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- Online training is up and running, linked from [www.ieee802.org](http://www.ieee802.org)
- IEEE-SA has proposed changes to document numbering
- P&P
  - Two changes pending approval (editorial and document numbering)
  - WG voting changes in process
  - SASB actions may require changes
  - Split LMSC P&P into OpMan and P&P?
- Meeting planner contract – plan to extend on current T&C
- Network services contract – plan to issue two year contract to Verilan

# LMSC EC Report p.4

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- Multiple appeals in process
  - Rehearing request of March 802.20 appeal decision – technical selection process
  - July 802.20 appeal hearing – WG ballot initiation
  - Sep SASB appeal – LMSC appeal of EC decision
- Executive session of EC called to discuss root causes of dysfunctional cases (e.g., number of appeals, contentious issues at EC, etc.)
- Looking for ITU-T technical liaison for IEEE-SA
  - Joint conference concurrent with May interim?
  - Path for international standardization?

# LMSC EC Report p.2

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- Tutorials
  - Mon. 6:00 – 802.22 Recommended Practice
  - Mon. 7:30 – 802.1 Congestion Notification
  - Mon. 9:00 – 10GBASE-KR FEC
  - Tue. 7:30 – 802.21 Media Independent Handoff
  - Tue. 9:00 – 802.15 Body Area Networks

# LMSC Chair's Meetings

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- Monday noon-1pm potential appeal re-hearing (Sherman)
- Tuesday noon-1pm EC executive session
- Tuesday 1-2pm JTC1 SC6 planning ad-hoc (Mills to chair)
- Tuesday 4-6pm Network Services Contract (Rigsbee)
- Wed 8-9am Project numbering discussion
- Wed 9-10am getIEEE 802 budget review (Hawkins)
- Wed 10-noon Meeting Planner Contract (Rigsbee)
- Wed 1-2:30pm 802 Task Force (Nikolich)
- Wed 2:30-3pm reserved (Nikolich)
- Wed 3-4pm Attendance SW and Document Management discussion (Rigsbee)
- Wed 4-5pm appeal hearing (Hawkins)
- Thurs 5-7pm 'open office' (802 Chair Paul Nikolich, Stds Board Chair Steve Mills, IEEE SA Past President Jim Carlo and IEEE Staff Karen Kenney)



# Project Authorization Requests

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- P802.1at Stream reservation protocol
- P802.1au Congestion notification
- P802.3ar Modified PAR
- P802.3av 10G EPON
- P802.1H Revision
- P802.11k Extension
- P802.22 RP Instal and deploy 802.22
- P802.20 PAR extension

# Continuing Agenda

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- Liaison Reports
- 802.3 State of the Standard (Mr. Law)
- 802.3 Operating Rules (Mr. Law)
- Task Force & Study Group Reports
  - Interpretations (Mr. Law)
  - Maintenance (Mr. Law)
  - 802.3an (Mr. Booth)
  - 802.3ap (Mr. Healey)
  - 802.3aq (Mr. Cunningham)
  - 802.3ar (Mr. Daines)
  - 802.3as (Mr. Daines)
  - 802.3at (Mr. McCormack)
  - 10G EPON SG (Mr. Krammer)
  - Call for Interest ( Mr. D'ambrosia)