

# Maintenance Task Group Meeting

November 7<sup>th</sup>, 2017, v5  
John Messenger

# Maintenance meeting

## November 7<sup>th</sup>, 2017 Agenda

- Patents and Guidelines
- Attendees
- Status
- Additional comments received
- New Maintenance items
  - 0195: 802.1Qch typo in figure Q-3
  - 0196: 802.1X MKA pending PN exhaustion
- Existing Maintenance items
- 802.1AC-2016/Cor1
- Comment resolution
  - 802.1Q-Rev/D2.0 (starts in Maintenance and continues in TSN)
- Withdrawal of standards:
  - 802.1D
  - ISO/IEC 15802-1 and 15802-3
- Liaisons
  - IETF LLC for long frames – liaison written in July but not issued: liaison-IETF-llc-encap-0717-v03
  - MEF 10.4
- SC6 comment resolution
  - 802.1AEcg 60-day ballot comment
- SC6 status

# Participation in IEEE 802 Meetings

**Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) is on an individual basis**

- **Participants in the IEEE standards development individual process shall act based on their qualifications and experience. ([https://standards.ieee.org/develop/policies/bylaws/sb\\_bylaws.pdf](https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf) section 5.2.1)**
- **IEEE 802 Working Group membership is by individual; “Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives”. (subclause 4.2.1 “Establishment”, of the IEEE 802 LMSC Working Group Policies and Procedures)**
- **Participants have an obligation to act and vote as an individual and not under the direction of any other individual or group. A Participant’s obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.**
- **Participants shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see [https://standards.ieee.org/develop/policies/bylaws/sb\\_bylaws.pdf](https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf) section 5.2.1.3 and the IEEE 802 LMSC Working Group Policies and Procedures, subclause 3.4.1 “Chair”, list item x.**

**By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.**

(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml>)

# Instructions for the WG Chair

The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:

- Show slides #1 through #4 of this presentation
- Advise the WG attendees that:
  - The IEEE's patent policy is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
  - Early identification of patent claims which may be essential for the use of standards under development is strongly encouraged;
  - There may be Essential Patent Claims of which the IEEE is not aware. Additionally, neither the IEEE, the WG, nor the WG chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- Instruct the WG Secretary to record in the minutes of the relevant WG meeting:
  - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
  - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that may be essential for the use of that standard
  - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG chair review the guidance in *IEEE-SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.



# Participants, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.

- **Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:**
  - **“Shall inform the IEEE (or cause the IEEE to be informed)” of the identity of each “holder of any potential Essential Patent Claims of which they are personally aware” if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents**
  - **“Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)**
- **The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group**
- **Early identification of holders of potential Essential Patent Claims is strongly encouraged**
- **No duty to perform a patent search**

# Patent Related Links

All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards Bylaws

*<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>*

IEEE-SA Standards Board Operations Manual

*<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>*

Material about the patent policy is available at

*<http://standards.ieee.org/about/sasb/patcom/materials.html>*

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/about/sasb/patcom/index.html>

This slide set is available at  
<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>



# Call for Potentially Essential Patents

- If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:
  - Either speak up now or
  - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible or
  - Cause an LOA to be submitted

# Other Guidelines for IEEE WG Meetings

- **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**
  - **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**
  - **Don't discuss specific license rates, terms, or conditions.**
    - Relative costs, including licensing costs of essential patent claims, of different technical approaches may be discussed in standards development meetings.
      - Technical considerations remain primary focus
  - **Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.**
  - **Don't discuss the status or substance of ongoing or threatened litigation.**
  - **Don't be silent if inappropriate topics are discussed ... do formally object.**

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See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and “Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy” for more details.

# November 7<sup>th</sup>, 2017 Attendees

Bao, Shenghua  
Bechtel, Gordon  
Bierschenk, Jens  
Boiger, Christian  
Bottorff, Paul  
Cheng, Weiying  
CHOI, changho  
Congdon, Paul  
DeLaOlivaDelgado,  
Antonio  
Elbakoury, Hesham  
Ellegaard, Lars  
Fang, Yonggang  
Farkas, Janos  
Finn, Norman  
Garner, Geoffrey  
Gravel, Mark  
Gray, Eric W  
Gunther, Craig

Gutierrez, Marina  
Haddock, Stephen  
Holness, Marc  
Kabra, Lokesh  
Kang, Taekyu  
Karl, Michael  
Kehrer, Stephan  
McIntosh, James  
Messenger, John  
Pannell, Donald R  
Parsons, Glenn  
Phatak, Aniruddha  
Potts, Michael  
QIU, WEI  
Rouyer, Jessy  
Sato, Atsushi  
Seaman, Michael  
Shen, Li  
Thaler, Patricia

Ting, Ao  
Wang, Xinyuan  
XU, LI  
Yamaura, Takahiro  
Yin, Yue  
YU, XIANG  
Zein, Nader

# Status Update

- 802.1AS-Rev/D5.0 WG ballot closed July 13<sup>th</sup>. Comment resolution complete. Draft 5.1 available. New working group ballot following this meeting.
- 802.1Xck/D1.1 WG ballot closed Oct 16<sup>th</sup>. Comment resolution this week.
- 802.1Q-Rev/D2.0 Sponsor Ballot closed Oct 7<sup>th</sup>. Comment resolution this week.
- 802.1AX-Rev/D0.1 TG ballot closed on Jun 23<sup>rd</sup>. Draft review this week followed by a new TG ballot.

# 802.1 Maintenance Status

Category	Count
Approved	0
Ready for Ballot	3
Complete then Ballot	4
Complete then Errata	0
Errata	0
Failed	0
Incomplete	0
Rejected	26
Published	108
Received	2
Errata Sheet Published	0
Technical experts review	2
Balloting	25
Withdrawn	0

# BALLOT RESOLUTION

- 802.1Q-Rev/D2.0

# Existing Maintenance Items

- All existing open maintenance items are included here, **except** items which are in “balloting” state already, as those aren’t really interesting to track.
- Task force chairs and editors: have you decided in your groups not to change something which is covered by a Maintenance item? If so, you please ensure you bring this to the attention of the Maintenance Task Group.

# Items for review

Number	Status	Submitted	Standard	Clause	Subject	Draft with fix
0061	Complete then Ballot	2012-11-01	802.1AS-2011	10.2.6.1.1	local variables	802.1AS-Rev
0170	Ready for Ballot	2016-05-16	802.1BA-2011	7.3.5	References to other standards in 802.1BA-2011	
0174	Complete then Ballot	2016-11-08	802.1AC-2016	2	802.1AC: IEEE 802.17 has been withdrawn	
0177	Technical experts review	2017-01-26	802.1AB-2009	8.5.8.1	System Capability entry for Small Cells	
0183	Ready for Ballot	2017-05-17	802.1Q	21.4.3	CFM OpCodes	
0188	Complete then Ballot	2017-06-29	802.1Q	8.6.8	Maintainance item request for transmission selection	
0191	Complete then Ballot	2017-07-04	802.1Q-2014/D1.4	1.3	Introduction items for P802.1Qbv and P802.1Qbu	
0192	Ready for Ballot	2017-07-04	802.1Q-2014/D1.4	5.13.1	References in clause 5.13.1, item n) not clickable	
0193	Technical experts review	2017-07-05	802.1Qbv-2015	12.29	802.1 maintenance request: Clarification of points in time for scheduled traffic	
0195	Received	2017-09-25	802.1Qch	Q.5.1	802.1Qch typo in Figure Q-3	
0196	Received	2017-10-04	802.1X	9	802.1X (MKA pending PN exhaustion)	

# **NEW MAINTENANCE ITEMS**

# New maintenance items

- 0195: 802.1Qch typo in figure Q-3
- 0196: 802.1X MKA pending PN exhaustion

# LIAISONS

- MEF 10.4 approved draft ([L00268](#)) (for info)
- IETF [LLC for long frames](#)
  - Corrigendum PAR submitted
  - Liaison response written but not progressed in July
  - Liaison content communicated to IETF through IETF-IEEE802 co-ordination committee
  - Send liaison response out of this meeting.

# **JTC1 SC6 COMMENT RESPONSES**

# SC6 Ballot Comments

- 802.1AEcg 60-day ballot – comment received
  - Responses to be developed in Security group

# **JTC1 SC6 STATUS**

# ISO/IEC JTC1 SC6 Status

- Karen Randall is performing this tracking for us.
- Volunteers also sought to assist with this task

# ISO/IEC JTC1 SC6 Status

- PSDO agreement in place to allow progress of IEEE standards in ISO/IEC
- EC JTC1 standing committee is administering the process for IEEE 802 Standards
  - 802.1, 802.3, 802.11, 802.15, 802.22
- 802.1 has previously agreed to submit its standards to SC6
  - Most standards and their amendments
  - Motion required per standard
    - To forward Sponsor Ballot draft for comment
    - To submit approved standard for PSDO approval
  - Procedure for Corrigenda: one 90 day ballot and three questions.

# 802.1 Stds for SC6 approval (1/2)

## – PSDO approved

- 802.1AE-2006 - FDIS passed Oct 2013, cmnts liaised Jan 2014
- 802.1X-2010 - FDIS passed Oct 2013, cmnts liaised Jan 2014
- 802.1AS-2011 (Time synch) - FDIS passed Dec 2013, cmnts liaised May 2014
- 802.1AB-2009 (LLDP) - FDIS passed Dec 2013, cmnts liaised May 2014
- 802.1AR-2009 (Secure device ID) - FDIS passed Dec 2013, cmnts liaised May 2014
- 802.1AEbn-2011 - ISO/IEC 8802-1AE:2015/Amd 1 (Apr 2015)
- 802.1AEbw-2013 - ISO/IEC 8802-1AE:2015/Amd 2 (Apr 2015)
- 802.1AX-2014 - FDIS passed Nov 2015; no comments
- 802-2014 - FDIS passed Nov 2015, cmnts liaised Jan 2016
- 802.1Xbx-2014 - FDIS passed Dec 2015; cmnts liaised 20 April
- 802.1Q-2014 - FDIS passed Jan 2016; cmnts liaised 20 April
- 802.1BA-2011 (AVB systems) - FDIS passed August 2016; no comments
- 802.1BR-2012 (Port extender) - FDIS passed August 2016; no comments
- 802.1AB-2016 (Stn & MAC Conn Disc) - FDIS passed 4/17; Cmt resp liaised Jul 2017
- 802.1Qbv-2015 (Enh for Sch Traffic) - FDIS passed 4/17; Cmt resp liaised Jul 2017
- 802.1Qca-2015 (Path Control & Reserv) - FDIS passed 4/17; Cmt resp liaised Jul 2017
- 802.1Qbu-2016 (Frame Preemption) - FDIS passed 13 Oct 2017; to be published
- 802.1Qbz-2016 (Enh to Bridging 802.11) - FDIS passed 13 Oct 2017; to be published
- 802.1Q-2014/Cor 1-2015 - FDIS passed 4/17; Cmt resp liaised Jul 2017 to be published
- 802.1AX-2014/Cor1-2017 - 90 day Cor FDIS passed Jul 2017; no cmnts to be published

# 802.1 Stds for SC6 approval (2/2)

## – For adoption - PSDO in process (FDIS)

- 802.1Qcd (Application VLAN TLV) - FDIS Ballot closes 1 Dec 2017 (date extended)
- 802.1AC-2016 (MAC Svc Def) - FDIS Ballot closes 5 March 2018
- 802d-2017 (URN Namespace) - FDIS ballot closes 14 March 2018

## – For adoption - PSDO in process (60 day pre-ballot)

- 802.1AEcg-2017 (EDE devices) - Ballot closed 7 Sep 2017; one cmt from China; response to be done Nov 2017 meeting
- 802.1Qci (Per stream filtering & policing) - Ballot closes 9 Dec 2017

## – For Information

- IEEE 802c (Local MAC Address Usage) - D2.1 sent 30 March 2017; in Sponsor Ballot. Need motion to send when published.
- IEEE 802.1Q-Rev (Bridges) - Motion 3/17: D2.0 sent 27 July 2017
- IEEE 802.1AR-Rev (Secure DevID) - Motion 7/17 to send for info when ready  
\*\*in Sponsor Ballot now; can be sent to SC6 for info
- IEEE 802.1Qcc (Stream Res Protocol) - Motion 7/17 to send for info when ready
- IEEE 802.1Qcp (Bridges YANG) - Motion 7/17 to send for info when ready

## – Next to send – send for adoption/start ballots (TBD)

- 802.1CB (Frame Repl & Elim for Reliability) - D2.6 sent for info 9/2016; send when pub – motion 3/17
- 802.1Qch (Cyclic Queuing & Fwding) - D2.0 sent for info 11/2016; send when pub – motion 3/17