

# Maintenance Task Group Meeting

May 16<sup>th</sup>, 2017, v3  
John Messenger

# Maintenance

## May 16<sup>th</sup>, 2017 Agenda

- Patents and Guidelines
- Attendees
- Status
- New Maintenance items
  - 0180: [Missing DESCRIPTION for 802.1Q TEIPS MIB module](#)
  - 0181: [Incorrect DESCRIPTION for 802.1Q ECMP MIB module](#)
  - 0182: [Incorrect references to IEEE 802.1Q-2014 in itself](#)
- Existing Maintenance items
- 802.1Q-Rev status update and balloting plan
  - P802.1Q/D1.3
- Comment resolution
  - None
- Liaisons
  - Interface Status TLV from MEF
- SC6 comment resolution
- SC6 status

# 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.

# May 16<sup>th</sup>, 2017 Attendees

Bechtel, Gordon  
Boiger, Christian  
Farkas, Janos  
Finn, Norman  
Gangula, Sridhara  
Garner, Geoffrey  
Geyer, Fabien  
Gray, Eric W  
Haddock, Stephen  
Hu, NongDa  
Huang, Jing  
Illouz, Marc  
Karl, Michael  
Kehrer, Stephan  
Kiessling, Marcel  
KOTO, Hajime  
Messenger, John  
Mueck, Florian  
Parsons, Glenn

QIU, WEI  
Rouyer, Jessy  
Schmitt, Juergen  
Seaman, Michael  
Thaler, Patricia  
Wang, Tongtong  
Wang, Xinyuan  
Weber, Karl  
wu, yanwei  
Yin, Yue  
YU, XIANG  
Zein, Nader



# Status Update

- 802.1AS-Rev/D4.5 TG ballot completed on March 1<sup>st</sup>; comment resolution in progress.
- 802.1AX-2014/Cor1-2017 was published on March 28<sup>th</sup>, 2017.
- 802.1Xck/D1.0 WG ballot closed Feb 15<sup>th</sup>. Comment resolution was performed and D1.1 is now available.
- 802.1AEcg-2017 was approved by the Standards Board on Feb 14<sup>th</sup>, 2017 and publishes on May 19<sup>th</sup>.
- 802.1Q-Rev/D1.3 is available
  - Discussion of open issues at this meeting.
- 802.1AX-Rev – Draft 0.0 is available.

# 802.1 Maintenance Status

Category	Count
Approved	4
Ready for Ballot	1
Complete then Ballot	3
Complete then Errata	0
Errata	0
Failed	0
Incomplete	0
Rejected	24
Published	104
Received	3
Errata Sheet Published	0
Technical experts review	1
Balloting	21
Withdrawn	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
0146	Approved	2014-11-02	802.1AX-2014	C.6	Reintroduced errors in IEEE8023-LAG-MIB	802.1AX-2014-Cor1
0151	Approved	2014-11-22	802.1AX-2008	5.4.2.1	Bit numbering reference error	802.1AX-2014/Cor-1
0162	Approved	2015-05-12	802.1AE-2006		Writeability of certain 802.1AE-2006 MIB variables	802.1AEcg
0163	Approved	2015-05-18	802.1AX-2014		Multiple aggregators and IPL failure	802.1AX-2014/Cor-1
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	
0179	Complete then Ballot	2017-02-16	802.1Q-2014	8.8.5	Clarification of outbound Ports as related to Dynamic VLAN Registration Entries and Ingress Filtering	

# **NEW MAINTENANCE ITEMS**

# New maintenance items

- 0180: [Missing DESCRIPTION for 802.1Q TEIPS MIB module](#)
- 0181: [Incorrect DESCRIPTION for 802.1Q ECMP MIB module](#)
- 0182: [Incorrect references to IEEE 802.1Q-2014 in itself](#)

# Items progressed 1/2

## May 2017 Interim Meeting

Location: Stuttgart

Number	Status	Submitted	Standard	Clause	Subject	Draft
0146 Closed	Published	2014-11-02	802.1AX-2014	C.6	Reintroduced errors in IEEE8023-LAG-MIB	802.1AX-2014-Cor1
0151 Closed	Published	2014-11-22	802.1AX-2008	5.4.2.1	Bit numbering reference error	802.1AX-2014/Cor-1
0162 Closed	Published	2015-05-12	802.1AE-2006		Writeability of certain 802.1AE-2006 MIB variables	802.1AEcg
0163 Closed	Published	2015-05-18	802.1AX-2014		Multiple aggregators and IPL failure	802.1AX-2014/Cor-1
0177	Technical experts review	2017-01-26	802.1AB-2009	8.5.8.1	System Capability entry for Small Cells	
0179	Complete then Ballot	2017-02-16	802.1Q-2014	8.8.5	Clarification of outbound Ports as related to Dynamic VLAN Registration Entries and Ingress Filtering	
0182	Complete then Ballot	2017-05-12	802.1Q-2014	3	Incorrect references to IEEE 802.1Q-2014 in itself	
0181	Balloting	2017-05-12	802.1Q-2014	17.7.21	Incorrect DESCRIPTION for 802.1Q ECMP MIB module	
0182	Complete then Ballot	2017-05-12	802.1Q-2014	3	Incorrect references to IEEE 802.1Q-2014 in itself	
0180	Balloting	2017-05-12	802.1Q-2014	17.7.18	Missing DESCRIPTION for 802.1Q TEIPS MIB module	

# Items progressed 2/2

## May 2017 Interim Meeting

Location: Stuttgart

Number	Status	Submitted	Standard	Clause	Subject	Draft
0181	Balloting	2017-05-12	802.1Q-2014	17.7.21	Incorrect DESCRIPTION for 802.1Q ECMP MIB module	
0180	Balloting	2017-05-12	802.1Q-2014	17.7.18	Missing DESCRIPTION for 802.1Q TEIPS MIB module	



# 802.1Q-Rev

- Revision plan for 802.1Q is in <http://ieee802.org/1/files/public/docs2017/q-messenger-revision-plan-0117-v1.pdf>
- 802.1Q-Rev/D1.3 is available for discussion
- See [Editor's Report](#).

# BALLOT RESOLUTION

- None

# LIAISONS

- Interface Status TLV liaison from MEF reviewed. The plan is to respond from the July meeting.

# **JTC1 SC6 COMMENT RESPONSES**

# SC6 Ballot Comments

- FDIS ballot comments have been received from China NB on:
  - IEEE 802.1Q-2014/Cor 1-2015
  - IEEE 802.1AB-2016
  - IEEE 802.1Qca-2015
  - IEEE 802.1Qbv-2015.
- Review proposed combined response (this was not done).

# **JTC1 SC6 STATUS**

# 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
  - **New** 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 & Media Acc Cntrl Conntvty Discov) - FDIS passed April 2017; cmt from China TBD
- 802.1Qbv-2015 (Enhs for Sch Traffic) - FDIS passed April 2017; cmt from China TBD
- 802.1Qca-2015 (Path Control & Reserv) - FDIS passed April 2017; cmt from China TBD
- 802.1Q-2014/Cor 1-2015 - FDIS passed April 2017; cmt from China TBD



# 802.1 Stds for SC6 approval (2/2)

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

- 802.1Qcd (Application VLAN TLV) - ballot passed with comments from China. Response sent Nov 2016; FDIS closes 18 Apr 2017 (11 May – no results yet per IEEE staff)
- 802.1Qbu-2016 - response to 60 day ballot cmts sent 30 Mar 2017 FDIS ballots haven't started; IEEE staff in contact with ISO
- 802.1Qbz-2016 - response to 60 day ballot cmts sent 30 Mar 2017 FDIS ballots haven't started; IEEE staff in contact with ISO
- 802.1AX-2014/Cor1-2017 - 90 day Cor ballot closes 20 July 2017

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

- 802.1AC-2016 - Ballot closes 24 May 2017
- 802d-2017 (URN Namespace) - Ballot closes 15 June 2017

## – For Information

- IEEE 802c (Local MAC Address Usage) - D2.1 sent 30 March 2017
- IEEE 802.1QRev - March 2017: approve D2.0 to be sent when ready

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

- 802.1CB (Frame Repl & Elim for Reliability) - D2.6 sent for info Sept 2016; send when pub
- 802.1Qci (Per stream filtering & policing) - D2.0 sent for info Oct 2016; send when pub
- 802.1Qch (Cyclic Queuing & Fwding) - D2.0 sent for info Nov 2016; send when pub
- 802.1AEcg-2017 (EDE devices) - D1.4 sent September 2016; send when pub