

802.1 Plenary – November 2016

San Antonio, Texas

Opening Agenda

Glenn Parsons – IEEE 802.1 WG Chair
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Plenary Agenda

- Call for Patents
- Administrative
- Membership
- Future Meetings
- EC topics
- PARs this week
- Liaisons
- Sanity check – current projects
- TG agendas

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 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.**

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.

Task Group Patent policy announcements

- TG Chairs please note:
 - At the start of each TG meeting, TG Chair needs to perform the Call for Patents as per the previous slides.
 - During the rest of the week, please announce each morning that the meeting is subject to the Patents Policy as read and displayed at the opening of the TG meeting.
 - If there are any responses to the call, minute it.
 - Direct attendees to the PatCom website for details of the policy:

<http://standards.ieee.org/board/pat/index.html>

and for the slide set:

<http://standards.ieee.org/board/pat/pat-slideset.ppt>

Decorum



- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (SASB Ops Manual 5.3.3.5)
- Photography or recording by permission only (SASB Ops Manual 5.3.3.4)
- Cell phone ringers off please

Security issues

- **Please wear your badge** when in the meeting areas of the hotel
- This will help the hotel security staff to improve the general security of the meeting rooms
- **PCs HAVE BEEN STOLEN** at previous meetings – **DO NOT** assume that meeting areas are secure

General information on 802.1...

- See :

<http://www.ieee802.org/1/files/public/minutes/802-1-general-info-v3.pdf>

- Meeting contributions

- <http://ieee802.org/1/filenaming.html>

- Please upload BEFORE presentation

- Meeting information and attendance:

- Schedule: <http://802world.org/attendee>

- Attendance: <http://imat.ieee.org>

San Antonio Logistics

- Food & Beverage Daily – Texas Ballroom Foyer
 - Continental Breakfast: 7:30 AM to 9:00 AM
 - Morning Coffee/Tea: 9:00 AM to 11:00 AM
 - Afternoon Coffee/Tea: 2:00 PM to 4:00 PM
 - Afternoon Snacks: 3:00 PM
- Networking Social Event
 - On patio
 - Drink ticket in registration
 - Wednesday 19-21:30
- Event updates
 - <http://802world.org/attendee>
 - Twitter @IEEE802
- IEEE 802 DVD available

802.1 officers

■ Officers

- Chair: Glenn Parsons
- Vice Chair: John Messenger
- Recording Secretary: Jessy Rouyer
- Security TG Chair: Mick Seaman
- TSN TG Chair: János Farkas
- Data Center Bridging TG Chair: Pat Thaler
- OmniRAN TG Chair: Max Riegel
- Maintenance of website: John Messenger & Paul Unbehagen
- Maintenance of Email exploder: Hal Keen

■ Website

- <http://www.ieee802.org/1/>

The following are 802.1 voters:

Baek, SeoYoung

Bao, Shenghua

Bierschenk, Jens

Boiger, Christian

Chen,David

Chen, Feng

Cheng, Weiying

Cummings, Rodney

Farkas, Janos

Finn, Norman

Garner, Geoffrey

Gray, Eric

Gunther, Craig

Gutierrez, Marina

Haddock, Stephen

Hantel, Mark

Holness, Marc

Huang, Lu

Jeffree, Anthony

Johas Teener, Michael

Keen, Hal

Kehrer, Stephan

Kiessling, Marcel

Klein, Philippe

Korhonen, Jouni

Li, Yizhou

Mangin, Christophe

McBeath, Tom

McIntosh, James

Messenger, John

Mustala, Tero

Nakano, Hiroki

Noseworthy, Bob

Pannell, Donald R

Parsons, Glenn

Pienciak, Walter

Potts, Michael

Randall, Karen

Riegel, Maximilian

Romascanu, Dan

Rouyer, Jessy

Samii, Soheil

Sarikaya, Behcet

Seaman, Michael

Specht, Johannes

Steiner, Wilfried

Thaler, Patricia

Thornburg, David

Touve, Jeremy

Unbehagen, Paul

Wang, Hao

Weber, Karl

Weis, Brian

Woods, Jordon

Zinner, Helge

Zuniga, Juan Carlos

The following have lost their voting membership through lack of qualifying attendance credit:

None

The following will become voting members when/if they show up here this week:

Bottorff, Paul

Heffernan, Patrick

The following could become voting members if they email me indicating their intention to do so and if they show up here this week:

Bjørnstad, Steinar

Ellegard, Lars

Gravel, Mark

Heffernan, Patrick

Huang, Jing

Lee, Juho

Kim, Soyoung

Moskowitz, Robert

Regev, Alon

Ryytty, Eero

Sato, Atsushi

Schewe, Frank

Varga, Balazs

Zebralla, Daniel

Zein, Nader

The following will lose voting member status for lack of qualifying attendance, unless they show up here this week:

Kiessling, Marcel

Sarikaya, Behcet

Zinner, Helge

The following will lose voting member status for insufficient letter ballot return, unless they are active:

25 current voters...

802.11 Reciprocal credit

- 802.1 voters may get credit for attending any 802.11
- 802.1 voting members who are also 802.11 voting members may get a popup in IMAT each time they register attendance to ask which group they are accumulating credit for this plenary.
- 802.1 attendance credit will not be granted from a voter who attended only 802.11 meetings.

Administrative – File Upload

- Website Upload area
 - The new file upload facility can be accessed from the filenaming conventions page at:
<http://iee802.org/1/filenaming.html>
 - Please upload BEFORE presentation

Newcomers orientation

- Monday, 6:30pm
 - Thanks János!
- Agenda
 - IEEE 802.1 Overview
 - IEEE 802.1 Time-Sensitive Networking (TSN)
 - P802.1CM TSN for Fronthaul
 - <http://www.ieee802.org/1/files/public/docs2016/cm-farkas-intro-0316-v01.pdf>

Future interim meetings

- January 16-19, 2017
 - 802-sponsored Interim - Atlanta, GA
 - Grand Hyatt Buckhead - US\$179
 - Registration (US\$600) – includes lunch
- May 15-18, 2017
 - Stuttgart, DE
- September 11-15, 2017
 - With 802.11 at Hilton Waikoloa Village
 - Other options
- May 2018
 - Ethernet Alliance
- Rest of 2018
 - ...

802 EC report – Plenary #114

- 802.17 WG disbanded
 - Standard withdrawn
- 802 Task Force
 - Fellowship program – regulators & technical
 - Indemnification
 - Tools
- P&P and CG change proposals ([EC-16-174](#))
 - New slide ([EC-16-180](#)) for all WGs noting relevant P&P
- Future Venues ([EC-16-177](#))
- Treasurer
 - Macau Government subsidy - ~\$130k
 - Surplus from Singapore now in Macao
- 802.11 dominance allegation
 - Investigation found none in 802.11ai
 - Non-experts were voting
 - 802.11ax – un-conflicted EC members review on Tuesday

EC meetings this week

Mon 08:00-10:00 Opening Executive Committee meeting

Tue 13:30-15:30 802/IETF Standing Committee (Republic A)

Tue 13:30-15:30 802/JTC1/SC6 Standing Committee (Crocket A)

Wed 08:00-09:00 802/ITU Standing Committee (Crocket A)

Thu 07:00-08:00 Plenary venue space allocation planning (Crocket A)

Thu 08:00-09:00 Future venue planning (Crocket A)

Thu 09:00-10:00 802 Chair's Open Office hour (Crocket A)

Thu 10:30-12:30pm IEEE 802 Task Force (Crocket A)

Fri 13:00-18:00 closing Executive Committee meeting

Public Review

- Starting on 6 July 2015, all eligible projects where a Sponsor ballot is initiated will also have a [Public Review](https://publicreview.standards.ieee.org) period initiated simultaneously.
 - <https://publicreview.standards.ieee.org>
 - Staff will transfer any comments to myBallot
- Status
 - No comments
- Questions? [FAQ](#)

Email ballots (ePoll)

- None since last plenary

PARs this week

■ 802.1 PARs:

- 802c - Amendment: Local Medium Access Control (MAC) Address Usage, [PAR Modification](#)
- 802.1AR: Standard - Secure Device Identity, [PAR](#) and [CSD](#)
- 802.1CS - Standard: Link-local Registration Protocol, [PAR](#) and [CSD](#)

■ Other WG PARs:

- 802.3cg - Amendment: 10 Mb/s Operation over Single Balanced Twisted-pair Cabling and Associated Power Delivery , [PAR](#) and [CSD](#)
- 802.11 Amendment: Low-power wake-up radio operation, [PAR](#) and [CSD](#)
- 802.19.2 - Standard: Coexistence of Unlicensed Wireless Systems in an Automotive Environment , [PAR](#) and [CSD](#)

Tutorials

- None this week

Liaisons within 802

- Joint meetings
 - Tues 18:30 – 19:30 – 802.1 – 802.15
 - Wed 17:00 – 802.1 – 802.24
 - Thurs 8-10 802.1 -802.11ak/802.11 ARC – Bridging issues

- IEEE 802 JTC1 standing committee meetings
 - Tuesday PM1
- IEEE 802 ITU standing committee
 - WTSA summary
 - Wednesday 8am
- IEEE 802 IETF standing committee
 - <https://www.iab.org/activities/joint-activities/iab-ieee-coordination/>
 - Tuesday PM1
- IEEE 802 task force
 - Thursday 10:30am

Incoming Liaisons

■ Maintenance:

- ITU-T SG15 LS367 on OTNT

<http://www.ieee802.org/1/files/public/docs2016/liaison-SG15-LS367-OTNT-1016.zip>

■ TSN:

- SG15-LS375: Initiation of the approval process for revised G.8021 and amended G.8032

<http://www.ieee802.org/1/files/public/docs2016/liaison-SG15-LS375-G8021-G8032-1016.zip>

- SG15-LS382: OTN Transport of CPRI and future mobile interfaces

<http://www.ieee802.org/1/files/public/docs2016/liaison-SG15-LS382-CPRI-OTN-1016.docx>

- SG15-LS378: Reply to Liaison response on update on IEEE P802.1CM TSN for Fronthaul (reply to IEEE 802.1 – LS30)

<http://www.ieee802.org/1/files/public/docs2016/liaison-SG15-LS378-802.1CM-1016.zip>

- IEC SC65C WG15

informal email

■ YANG (i.e., TSN & Security):

- SG15-LS379: LS on Generic and Transport Technology Specific Management Information Models

<http://www.ieee802.org/1/files/public/docs2016/liaison-SG15-LS379-models-1016.docx>

- BBF work on Github

Sanity check – current workload

Project	Subject	Last Motion	Current Stage	Draft#	Next action	PAR ends	TG
802.1CB	Frame Replication and Elimination	Sponsor Ballot	Sponsor Ballot	D2.6	RevCom - conditional?	Dec '17	TSN
802.1AC-REV	MAC service	RevCom	RevCom - Dec	D4.0	Approval	Dec '17	MAINT
802.1Qcc	SRP enhancements & performance improvements	WG ballot	WG ballot	D1.1	WG ballot recirc	Dec '17	TSN
802.1ARce	AR: SHA-384 and P-384 Elliptic Curve	WG ballot	TG ballot	D1.1	WG ballot	Dec '18	SEC
802.1CF	Access network (OmniRAN)	TG ballot	TG ballot	D0.3	TG ballot	Dec '18	OMNI
802.1AEcg	Ethernet data encryption devices	Sponsor Ballot	Sponsor Ballot	D1.4	RevCom - conditional?	Dec '18	SEC
802.1Qch	Cyclic queueing and forwarding	WG ballot	WG ballot	D1.1	Sponsor Ballot	Dec '19	TSN
802.1AS-REV	Time synch enhancements	TG Ballot	TG Ballot	D4.2	TG Ballot	Dec '19	TSN
802c	Local Address space	WG Ballot	WG Ballot	D1.2	NesCom - PAR mod	Dec '19	DCB
802.1Qci	Per Stream Filtering & Policing	Sponsor Ballot	Sponsor Ballot	D2.0	RevCom - conditional?	Dec '19	TSN
802.1Qcj	Auto Attach to PBB	TG Ballot	Editor's draft	D0.1	TG Ballot	Dec '19	TSN
802.1Xck	802.1X YANG data model	WG ballot	TG ballot	D0.8	WG ballot	Dec '19	SEC
802.1CM	Profile for Fronthaul	TG Ballot	TG Ballot	D0.5	TG Ballot	Dec '19	TSN
802.1Qcn	EVB VDP extension	TG Ballot	Editor's draft	D0.4	TG Ballot	Dec '19	DCB
802.1Qcp	802.1Q YANG data model	TG Ballot	TG Ballot	D0.6	TG Ballot	Dec '19	TSN
802d	URN Namespace	Sponsor Ballot	Sponsor Ballot	D1.1	RevCom	Dec '19	TSN
802E	Privacy	NesCom	Editor's draft	D0.4	Editor's draft	Dec '19	SEC
802.1AX/Cor 1	Tech and ed corrections	Sponsor Ballot	Sponsor Ballot recirc	D0.6	RevCom	Dec '19	MAINT
802.1CQ	Local Address protocol	PAR approved	Editor's draft	D0.1	Editor's draft	Dec '20	DCB
802.1Qcr	Asynchronous Traffic Shaping	PAR approved	PAR approved		Editor's draft	Dec '20	TSN
802.1CS	LRP	PAR development	PAR development		NesCom		TSN
802.1AX-REV	Link Aggregation	PAR approved	PAR approved		Editor's draft	Dec '20	MAINT
802.1AR-REV	Secure Device Identity	PAR development	PAR development		NesCom		SEC
802.1Q-REV	Bridges and Bridged Networks	PAR approved	Editor's draft		Editor's draft	Dec '20	MAINT

Promotion

- Promoting to the industry our good work
- Leverage IEEE-SA marketing
 - IOT, Smart Car, Smart Cities, etc.
- Issue press releases
 - Start of PAR, Final approval
 - Editors are asked to propose...
- On the calendar
 - 802.1Qbz press release
 - Deterministic Ethernet Conference

Standards Project Awards

- Offered to the chairs, Editor and significant contributors after publication
- Up Next
 - 802.1AB-REV
 - 802.1Qca
 - 802.1Qbv
 - 802.1Qbu
 - 802.1Qbz

Motions for closing plenary

- For motions requiring EC action
 - PARs to NesCom
 - Drafts to Sponsor ballot
 - Drafts to RevCom
- EC required supporting material must be sent to the WG chair before the motion is considered
 - Preferably in the motion slides
- Consent agenda ([EC-16-183](#))
 - Possible if material sent by noon Thursday³⁵

802.1 plenary schedule

V2	IEEE 802 PLENARY SESSION San Antonio, Texas November 7-11, 2016													
	802.1 tracks and times													
	MONDAY			TUESDAY				WEDNESDAY				THURSDAY		FRIDAY
07:00-07:30														
07:30-08:00														
08:00-08:30	EC			MTN TG				Trk 1: TSN	Trk 2: DCB		ITU SC		Trk 1: TSN	
08:30-09:00		Trk 1: TSN												
09:00-09:30														
09:30-10:00											Trk3 SEC			
10:00-10:30	Break			Break				Break				Break		
10:30-11:00	Opening 802.1 Plenary			Trk 1: TSN	Trk 2: DCB		Trk 4: SEC	Trk 1: TSN	Trk 2: DCB		Trk 4: SEC	Trk 1: IWK	Trk 3: OR	
11:00-11:30														
11:30-12:00														
12:00-12:30														
12:30-13:00	Lunch			Lunch				Lunch				Lunch		
13:00-13:30														
13:30-14:00		Trk 1: TSN		Trk 3: OR	Trk 4: SEC	Trk 1: TSN	Trk 2: DCB		Trk 4: SEC	Trk 1: TSN	Trk 2: DCB	Trk 3: OR	Trk 4: SEC	Closing 802 EC
14:00-14:30														
14:30-15:00														
15:00-15:30														
15:30-16:00	Break			Break				Break				Closing 802.1 Plenary		
16:00-16:30														
16:30-17:00		Trk 1: TSN		Trk 3: OR	Trk 4: SEC	Trk 1: TSN	Trk 2: DCB	Trk 3: OR	Trk 4: SEC	Trk 1: TSN	Trk 2: DCB	Trk 3: OR 5G	Trk 4: SEC	
17:00-17:30														
17:30-18:00														
18:00-18:30	Break			Break				Break				Break		
18:30-19:00	New comers's Orientation													
19:00-19:30														
19:30-20:00														
20:00-20:30				Privacy open meeting				Social event						
20:30-21:00														
21:00-21:30														
21:30-22:00														

KEY:
 TSN: Time Sensitive Netw'kg
 MTN TG: Maintenance TG
 SEC: Security
 DCB: Data Center Bridging
 OR: OmniRAN

TG agendas

- Security TG
- TSN TG
- OmniRAN TG
- Maintenance TG
- Data Center Bridging TG

Security TG Agenda

1. P802.1AEcg (MAC Security Ethernet Data Encryption devices)
Sponsor Ballot Resolution (Passed, 15 comments) Monday p.m.
2. P802.1Xck (Port-Based Network Access Control YANG Data Model)
D0.8 Task Group Ballot Resolution Monday p.m.
3. P802.1ARce (Secure Device Identity SHA-398/P-384 Elliptic Curve)
D1.1 Task Group Ballot Resolution Tuesday p.m.
Respond to other WG comments on Rev PAR (pre-circulated) Wednesday a.m.
4. P802E Privacy (Recommended Practice .. Privacy .. for IEEE 802)
Scheduling t.b.d
5. A.O.B
No requests yet Thursday a.m.
6. Future meeting/teleconferences
 - Task Group will meet Monday p.m. through Thursday a.m. Starting: Monday p.m. Tuesday, after Maintenance and joint YANG session (anticipated). Wednesday, Thursday at 9.00 am Will schedule around liaison/joint activities inc. ISO/IEC SC.

IEEE 802.1 TSN TG Agenda

8:00

	Monday	Tuesday	Wednesday	Thursday
	AS-REV	Maintenance	LRP PAR, Qci, Qch,	Liaisons, overflow
	Opening Plenary	Qcp YANG		
	lunch break			
	AS-REV	802d, CB, Qcc SRP	CM, Qcr 802.24	Closing Plenary
~6pm	Newcomers'	Privacy	social	

OmniRAN - Agenda proposal for November 2016 F2F

- Review of minutes
- Reports
- Result of TG ballot of P802.1CF-D0.3
 - Comments' database
- Comments' resolution on P802.1CF-D0.3
- Revised and new P802.1CF contributions
 - Contributions proposing new content
- Contributions to Industry Connections activity (5G SC Action A)
- Plan for 802.1CF-D0.4 draft
 - Open issues to be addressed by next revision
 - Plan and timeline for next revision
- External review of 802.1CF
 - Presentation on IETF-97 (Seoul, Korea, Nov 13-18)
 - Other groups
- Status report to IEEE 802 WGs
- AOB

OmniRAN - Nov 2016 Agenda

	Mon 11/7	Tue 11/8	Wed 11/09	Thu 11/10	Fri 11/11
08:00	802 EC Opening	802.11 WNG	802.11 ARC		802.11 Closing
10:00					
10:30	802.1 Opening Plenary	802.11AANI	802.11/802.15 Mid-week Plenaries	OmniRAN closing	
12:30					
13:30		802.11 ARC		802.1 Closing Plenary	802 EC Closing
15:30					
16:00	OmniRAN opening		OmniRAN 5G Special Session		
18:00					
		Joint 802.1/802.15			
		Privacy Open Mtg			

Maintenance

Nov 8th, 2016 Agenda

- Patents and Guidelines
- Attendees
- Status
- New Maintenance items
 - none
- Existing Maintenance items
- 802.1Q-Rev draft review
- Comment resolution
 - None
- Liaisons
 - none
- SC6 comment resolution
- SC6 status

DCB & Addressing Agenda

November 2016

Meeting

Tuesday 10:30 to 12:30 AM and 3:30 to 6:00 PM in Bowie A

Wed 10:30 in Bowie C

- P802c comment resolution
- 802.1Qcn
- P802.1CQ

Any other business?