

802.1 Plenary – November 2014

San Antonio

Opening Agenda

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

General information on 802.1 operation...

- See:

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

- Meeting contributions

- Please upload BEFORE presentation

- Meeting information and attendance:

- Accessible from local network only

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

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

802.1 officers

■ Officers

- Chair: Glenn Parsons
- Vice Chair: John Messenger
- Recording Secretary: Eric Gray
- Security TG Chair: Mick Seaman
- Interworking TG Chair: Steve Haddock
- TSN TG Chair: Michael Johas Teener
- Data Center Bridging TG Chair: Pat Thaler
- OmniRAN TG Chair: Max Riegel
- Maintenance of website: John Messenger
- Maintenance of Email exploder: Hal Keen

■ Website

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

Panagiotis Saltsidis



Περαστικά
Krya på dig

The following are 802.1 voters:

Ao, Ting

Boiger, Christian

Bottorff, Paul

Chen, David

Cheng, Weiying

Crupnicoff, Diego

Cummings, Rodney

Diamond, Patrick

Diarra, Aboubacar Kader

Farkas, Janos

Finn, Norman

Garner, Geoffrey

Ghanwani, Anoop

Goetz, Franz

Gravel, Mark

Gray, Eric

Gunther, Craig

Haddock, Stephen

Hayakawa, Hitoshi

Hitt, Jeremy

Hussain, Rahil

Jeffree, Anthony

Jochim, Markus

Johas Teener, Michael

Jones, Peter

Keen, Hal

Kiessling, Marcel

Klein, Philippe

Korhonen, Jouni

Lynch, Jeff

Mack-Crane, Ben

McIntosh, James

Messenger, John

Moldovansky, Anatoly

Multanen, Eric

Pannell, Donald

Parsons, Glenn

Randall, Karen

Riegel, Maximilian

Romascanu, Dan

Rouyer, Jessy

Saltsidis, Panagiotis

Sarikaya, Bechet

Seaman, Michael

Sexton, Daniel

Specht, Johannes

Stanton, Kevin

Steiner, Wilfried

Thaler, Patricia

Touve, Jeremy

Tretter, Albert

Weber, Karl

Wei, Yuehua

Weis, Brian

Woods, Jordon

Zuniga, Juan-Carlos

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

Tabatabaee, Vahid

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

Bragg, Nigel

Chen, Feng

Edge, Bob

Estes, David

Kehrer, Stephan

Kim, Yongbum

Lin, Juitse

Mangin, Christophe

Mangin, Christophe

Mason, Ralph

Noseworthy, Bob

Sato, Atsushi

Unbehagen, PAul

Waldo, Michael

Walter, Todd

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

Goetz, Franz

Jochim, Markus

Moldovansky, Anatoly

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 12 and 12a 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
 - “Personal awareness” means that the participant “is personally aware that the holder may have a potential Essential Patent Claim,” even if the participant is not personally aware of the specific patents or patent claims
 - “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of such 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.
 - Point attendees at 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>

Future interim meetings

- January 11-15, 2015
 - 802-sponsored Interim
 - <http://802world.org/interim/>
 - Hyatt Regency Atlanta - US\$169
 - Early registration (US\$500) deadline – Dec 5th
- May 19-22, 2015
 - Note corrected dates
 - John D'Ambrosia - Ethernet Alliance
 - <http://ieee802.org/1/files/public/docs2014/admin-dambrosia-may15-meeting-1014-v1.pdf>
- Fall 2015
 - Hosts ?
- January 2016
 - 802-sponsored Interim, Atlanta
- Spring 2016
 - Hosts?
- Fall 2016
 - Hosts?

802 EC report

- 802c discussion
- WG P&P proposals – ([EC-14-66](#))
 - Alignment with baseline
 - Potential Issues: fiduciary duty, roster (member vs participant), electronic + live meetings, ¼ -> 2/3 approval, no roll call votes, maximum abstention rate
- Get 802 proposal
 - 200k downloads - Jan-Sep 2014 (~7M in last 10Y)
 - Ask from last plenary – all standards and work in progress have free access
 - 6 year implementation plan proposed by IEEE-SA
- EC Standing Committees
 - Wireless Chairs standing committee (EC-14-76)
 - JTC1 standing committee (11-14-1360): Andrew Myles as chair
 - ITU standing committee (EC-14-79): Glenn is chair.
 - IETF standing committee: Pat is chair. [joint meeting](#) in September
- Future plenaries report ([EC-14-40r8](#))
 - Completed – March 2015 – Berlin, March 2016 – Macao, July 2017 - Berlin
 - Decide this week – March & November 2017 – Dallas, Atlanta, Orlando
- Treasurers report
 - reserve at \$1M, foreign venue reserve is at \$0
 - Singapore reserve transferred to Macao
- 3GPP liaison – led by 802.19
- EC Workshop – this Saturday ([EC-14-69](#))
 - International meetings & financial planning (meeting fees)
 - WG rules, LTE-U, Internet Governance

Join Me



- IEEE-SA provided web conferencing
- Each IEEE 802 WG has one account
 - <http://join.me/802.1>
 - Ask chair for password

PARs this week

- 802.1 PARs:
 - 802c, Amendment: Local Media Access Control (MAC) Addressing
 - 802.1AS-rev - Timing and Synchronization for Time-Sensitive Applications
 - 802.1Qch- Amendment: Cyclic Queuing and Forwarding
- Other WG PARs:
 - 802.3bv- Amendment, 1000 Mb/s Operation Over Plastic Optical Fiber
 - 802.3by- Amendment: Media Access Control Parameters, Physical Layers and Management Parameters for 25 Gb/s Operation
 - 802.15.7a- Amendment for a Physical Layer Supporting Optical Camera Communications
- <http://grouper.ieee.org/groups/802/PARs.shtml>

Tutorials

- Monday, July 14, 2014
 - Tutorial #1 (6:00–7:30 pm): Gigabit Ethernet over Plastic Optical Fiber
 - Tutorial #2 (7:30–9:00 pm): Introduction to P802.3bn EPON Protocol over Coax (EPoC)

Liaisons within 802

- Joint meetings
 - Mon 21:30 – 22:30 – 802c PAR discussion
 - Tues 9:00 – 18:00 – Interworking/TSN
 - Tues 19:30 – 802.15.4 discussion
 - Thurs 8-10 802.1 TG/802.11ak – Bridging issues
- Privacy EC SG
 - Tues & Thurs 19:30-21:30
- 802.24 IOT
 - Wed PM2 – P2431 liaison
- IEEE 802 JTC1 standing committee meetings
 - Tuesday PM1
- IETF standing committee
 - Tuesday PM2
- IEEE 802 ITU standing committee
 - Wednesday AM1
- IEEE 802 task force – Get 802
 - Thursday AM2
- Any others?

Incoming Liaisons

- Maintenance:
 - LS105 from ITU-T SG15 to IEEE 802.1 on ITU-T SG15 OTNT standardization work plan
http://www.ieee802.org/1/files/public/docs2014/liaison-ITUTSG15-LS105_229P-AnnA-0414.zip
- Interworking:
 - MEF has sent a liaison to IETF on a potential overlap between MEF 38 & 39 with draft-tissa-netmod-oam:
http://www.ieee802.org/1/files/public/docs2014/liaison-MEF-L00214_IETF_OAM YANG.docx
IEEE 802.1 has been copied for information - we may respond...
 - ITU-T has sent us a liaison with further clarification questions on DRNI:
http://www.ieee802.org/1/files/public/docs2014/liaison-ITUTSG15-LS165_WP3-199_Ann3-0914.docx
 - LS165 from ITU-T SG15 to IEEE 802.1 on Multi Domain Segment network Protection (continuing LS016 and LS116)
http://www.ieee802.org/1/files/public/docs2014/liaison-ITUTSG15-LS165_WP3-119_Ann3-0914.DOCX
- Any others?

802.1 meeting schedule

V3	IEEE 802 PLENARY SESSION San Diego, California November, 2014																							
	802.1 tracks and times																							
	SUNDAY				MONDAY				TUESDAY				WEDNESDAY				THURSDAY				FRIDAY			
07:00-07:30																								
07:30-08:00																								
08:00-08:30																								
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22:00-22:30																								

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

TG agendas

- Security TG
- Interworking TG
- TSN TG
- OmniRAN TG
- Maintenance TG

- Data Center Bridging TG (not meeting)

Security TG

[See email 10/25/14 for additional detail]

Meeting Tues, Wed, Thurs am, except where overlap joint meetings. Room allocated Tue am, Wed am, otherwise meet at registration 9.00, 1.30. Tuesday PM1 with SC6 SC.

1. P802.1ARce
2. MACsec & 802.3 pre-emption
3. P802.1AEcg
4. SC6 liaison
5. Privacy related issues
6. 802.15.9 liaison/participation

Interworking Task Group Projects

Project	Title	Editor	Draft	Ballot
802.1AX- Rev DRNI	Link Aggregation & Distributed Resilient Network Interconnect	Panagiotis Saltsidis	4.54	Done
802.1Qbz	Wired – Wireless Bridging	Norm Finn	1.4	Task Group
802.1Qca	SPB Path Control and Reservation	Janos Farkas	1.1	Working Group
802.1Q-REV	VLAN Bridges	Tony Jeffree	2.1	Done
802.1AC- REV	MAC Service Definition	John Messenger	1.0	Working Group

Interworking Task Group Agenda

Preliminary – Subject to change

	Mon 11/3/14	Tues 11/4/14	Wed 11/5/14	Thurs 11/6/14
Morning	<p>Qbz D1.4 review (Finn)</p> <p>802.1 Opening Plenary</p>	<p>Maintenance (8:00-9:00)</p> <p>Joint mtg: IW + TSN (Qca-d0.8: Farkas; 802c PAR)</p>	<p>Qca PCR D1.1 WG (Farkas)</p>	<p>Joint mtg: .1 + .11 (Qbz WBB: Finn)</p> <p>New Work ()</p> <p>Liaisons</p>
Afternoon		<p>Joint mtg: IW + TSN</p> <p>Joint mtg: .1 + .15 (6:30) (Sarikaya)</p>	<p>802c (Thaler)</p>	<p>802.1 Closing Plenary</p>

TSN TG

Presenter / Affiliations	Length	Link		
Mon 0800-1100 TSN meeting (time sync - ASbt/Rev/Corr2)				
	Administrivia (patent policy, agenda bashing, etc)	Michael Johas Teener / Broadcom		15
	IEEE 802.1AS corr 2 status	Geoff Garner / Broadcom, Hirschmann, Marvell, Siemens	http://www.ieee802.org/1/files/private/as-cor-2-drafts/d0/802-1AS-cor-2-d0-1.pdf	30
	IEEE 802.1AS revision draft 0.7	Geoff Garner / Broadcom, Hirschmann, Marvell, Siemens	http://www.ieee802.org/1/files/private/asbt-drafts/d0/802-1ASbt-d0-7.pdf	120
	Agenda bashing	Michael Johas Teener / Broadcom		20
Mon 1100-1300 IEEE 802.1 opening plenary				
Mon 1400-1700 TSN meeting (time sync - ASbt/Rev/Corr2)				
	Decoupling 1Qbv from 1AS	Wilfried Steiner / TTTTech Computertechnik AT		45
	Mechanisms for delay asymmetry	Lu Huang / China Mobile		20
	TSN Work - Where do we go from here?	Don Pannell / Marvell		60
Tue 0900-1800 Joint IWK/TSN (IS-IS-based path reservations, seamless redundancy, other forwarding improvements)				
	802.1Qca status	János Farkas / Ericsson	http://www.ieee802.org/1/files/private/ca-drafts/d1/802-1Qca-d1-1.pdf	30
	P802.1CB status	Norm Finn / Cisco		45
	New: TSN Input Gates	Norm Finn / Cisco		20
	802.1Qcc D0.2 Walkthrough	Rodney Cummings / National Instruments	http://www.ieee802.org/1/files/public/docs2014/IEEE802-1Qcc-d0-2.pdf	60
	CPRI over TSN update	Peter Ashwood-Smith / Huawei		60
	Guaranteed Latency	Marcel Kiessling / Siemens AG		30
	How 802.1 Can Help with the MAC Address Usage Issue	Don Pannell / Marvell		30

Presenter / Affiliations	Length	Link		
	802.1Qca status	János Farkas / Ericsson		30
	P802.1CB status	Norm Finn / Cisco		45
	New: TSN Input Gates	Norm Finn / Cisco		20
	802.1Qcc D0.2 Walkthrough	Rodney Cummings / National Instruments	http://www.ieee802.org/1/files/public/docs2014/IEEE802-1Qcc-d0-2.pdf	60
	MSRP v0-to-v1 interoperability	Craig Gunther / Harman		45
	CPRI over TSN update	Peter Ashwood-Smith / Huawei		60
	Guaranteed Latency	Marcel Kiessling / Siemens AG		30
	How 802.1 Can Help with the MAC Address Usage Issue	Don Pannell / Marvell		30
Wed 0900-1800 TSN (shapers, SRP improvements, more time sync)				
	P802.1Qbu ballot review	Tony Jeffrey / Broadcom, Hewlett Packard	http://www.ieee802.org/1/files/private/bu-drafts/d1/802-1Qbu-d1-1.pdf http://www.ieee802.org/1/files/private/bu-drafts/d1/802-1Qbu-D1-1-pdis-v1.pdf	180
	802.1Qch PAR update	Michael Johas Teener / Broadcom	http://www.ieee802.org/1/files/public/docs2014/ch-mjt-cyclic-queuing-and-forwarding-par-csd-0814-v01.pdf	45
	P802.1Qbv review	Tony Jeffrey / Broadcom, Hewlett Packard	http://www.ieee802.org/1/files/private/bv-drafts/d2/802-1Qbv-d2-1.pdf	60
	802.1Qcc planning	Rodney Cummings / National Instruments		60
	Stream metering for tsn update	Feng Chen / Siemens AG		60
	Ingress Policing in Automotive Systems	Soheil Samii / General Motors		45
	UBS in Automotive Systems	Johannes Specht / University of Duisburg-Essen, General Motors		45
Thu 1000-1200 802.1 / 802.11 joint meeting				
Thu 1000-1200 TSN meeting (perhaps some joint with 802.3br)				
	Assumptions and architecture review	Don Pannell / Marvell	http://www.ieee802.org/1/files/public/docs2014/tsn-pannell-general-assumptions-0914-v1.pdf	60
Thu 1300-1700 IEEE 802.1 closing plenary				
	TSN motions	Michael Johas Teener / Broadcom		20

OmniRAN TG Agenda

- Review of minutes
- Reports
- SDN & NFV Considerations
- P802.1CF contributions
 - Network reference model
 - Functional design and decomposition
 - SDN Abstraction
- Project planning
- Status report to IEEE 802 WGs
- AOB

Maintenance TG Agenda

- Patents and Guidelines
- Attendees
- Status
- Ballot Resolution
 - 802.1AB-Cor-2
- New Maintenance items
 - 802.1Q Definitions for the IEEE8021-FQTSS-MIB module – 0145 – new
 - 802.1AXbk Reintroduced errors in IEEE8023-LAG-MIB – 0146 – new
- Existing Maintenance items
 - 802.1AS asCapable Hair Trigger – 140 – waiting for TSN
 - 802.1AC items to be removed from Q – 141 – waiting
 - TSN (.1AS) – 61 – ongoing
 - LLDP (.1AB) – 121, 127, 133 – balloting
 - 802.1Q corrigenda – 132, 137 – action required this week once 802.1Q-Rev approved
 - 802.1AC/.1Q – 125 – balloting
 - 802.1AX-Rev – 126 – balloting
 - 802.1AS – 135, 138 – ongoing
 - 802.1X – 136 – waiting
- SC6 status
- Maintenance motions for closing plenary
- Teleconferences
 - January 7th ?? (if necessary) – approve this week
 - March 3rd ?? (if necessary) – approve this week

Any other business?