

802.1 Plenary – July 2016

San Diego, California

Opening Agenda

Glenn Parsons – IEEE 802.1 WG Chair
glenn.parsons@ericsson.com

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...

- 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>

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

San Diego Logistics

- Food & Beverage Daily – Palm Foyer
 - Continental Breakfast: 7:30 AM to 9:00 AM
 - Morning Coffee/Tea: 10:00 AM to 11:00 AM
 - Afternoon Coffee/Tea/Snacks: 3:00 PM to 4:00 PM
- Social Event – Don McMillan – *Technically Funny*
 - \$24.99 ticket not included in registration
 - Comedy, drinks, casual food and networking
 - Wednesday July 27th 6:30 PM – 9:30 PM
- Event updates
 - <http://802world.org/attendee>
 - Twitter @IEEE802

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>

802.1 officers

■ Officers

- Chair: Glenn Parsons
- Vice Chair: John Messenger
- Recording Secretary:
- Security TG Chair: Mick Seaman
- TSN TG Chair: Michael Johas Teener
- TSN TG Vice-Chair: János Farkas
- 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/>

802.1 Recording Secretary

- Eric Gray – Ericsson
 - Thanks for the excellent minutes since March 2010!
 - Remains IETF liaison manager for 802.1
- Jessy Rouyer – Nokia
 - Appointed Recording Secretary from this plenary

The following are 802.1 voters:

Boiger, Christian

Chen, David

Chen, Feng

Cheng, Weiying

Cummings, Rodney

Farkas, Janos

Finn, Norman

Garner, Geoffrey

Gray, Eric

Gunther, Craig

Haddock, Stephen

Hantel, Mark

Holness, Marc

Jeffree, Anthony

Johas Teener, Michael

Keen, Hal

Kehrer, Stephan

Kiessling, Marcel

Klein, Philippe

Korhonen, Jouni

Li, Yizhou

Lu, Huang

Mangin, Christophe

McBeath, Tom

McIntosh, James

Messenger, John

Nakano, Hiroki

Noseworthy, Bob

Pannell, Donald

Parsons, Glenn

Pienciak, Walter

Randall, Karen

Riegel, Maximilian

Romascanu, Dan

Rouyer, Jessy

Seaman, Michael

Samii, Soheil

Specht, Johannes

Steiner, Wilfried

Thaler, Patricia

Thornburg, David

Touve, Jeremy

Unbehagen, Paul

Weber, Karl

Weis, Brian

Woods, Jordon

Zinner, Helge

Zuniga, Juan-Carlos

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

Bottorff, Paul

Saltsidas, Panos

Sexton, Daniel

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

Bao, Shenghua
Potts, Michael

Sarikaya, Behcet
Wang, Hao

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

Baek, Seo Young

Bierschenk, Jens

Bjørnstad, Steinar

Edge, Bob

Ellegard, Lars

Gravel, Mark

Gutierrez, Marina

Hsieh, Tien Yuan

Lee, Juho

Kim, Soyoung

Mustala, Tero

Sato, Atsushi

Ryytty, Eero

Varga, Balazs

Zebralla, Daniel

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

Touve, Jeremy

Weber, Karl

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

None...

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.
- Continue for July 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

Administrative -



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

Newcomers orientation

- Sunday, 6pm
 - 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

- September 12-15, 2016
 - York, UK
 - John Messenger – ADVA Optical Networking
 - <http://www.ieee802.org/1/files/public/docs2016/admin-messenger-sep16-york-meeting-0715-v04.pdf>
- January 16-19, 2017
 - 802-sponsored Interim - Atlanta, GA
 - Hyatt Regency Atlanta - US\$179
 - Registration (US\$600) – includes lunch
- Proposals for 2017
 - May - open
 - September - open

802 EC report

- Remote participation
 - Pat leading investigation.
 - Costs high. There are differing rules in WGs
- 802 paper winner
 - Student attending this week and will present
 - IEEE 802.11 WNG from 08:00 to 10:00 on Tuesday 26th July,
 - IEEE 802.15 WNG from 11:30 to 12:30 on Wednesday 27th July.
- 802.11 dominance allegation
- 802 Task Force to discuss indemnification
- P&P change proposals (EC-16-116)
 - 75% approval for government communications
 - 10 day announcement for WG subgroup meetings
- Future Venues (EC-16-117)
 - New registration system for next plenary

EC meetings this week

Sunday 19:30-21:30 LMSC Rules Review (Balboa B)

Mon 08:00-10:00 Opening Executive Committee meeting (Seaport ABC)

Mon 16:00-18:00 802/IETF Standing Committee (Golden Hill B)

Mon 19:30-21:30 5G/IMT2020 Standing Cmte (Seaport DE)

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

Tue 19:30-21:30 5G/IMT2020 Standing Cmte (Seaport DE)

Wed 08:00-09:00 802/ITU Standing Committee (Balboa B)

Wed 17:00- 18:00 Remote participation (Balboa B)

Thu 07:00-08:00 Plenary venue space allocation planning (Balboa B)

Thu 08:00-09:00 Future venue planning (Balboa B)

Thu 09:00-10:00 802 Chair's Open Office hour (Balboa B)

Thu 10:30-12:30pm IEEE 802 Task Force (Balboa B)

Fri 13:00-18:00 closing Executive Committee meeting (Harbor AB)

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:
 - none
- Other WG PARs:
 - 802.3cb - Amendment: 2.5Gb/s and 5 Gb/s Operation over Backplane, [PAR Modification](#) and [CSD](#)
 - 802.3.2 (802.3cf) - Standard: Ethernet YANG data, [PAR](#) and [CSD](#)
- <http://www.ieee802.org/PARs.shtml>

Tutorials

- None this week

802 5G SC

- A draft report is available
 - There is a preference for Action B3, with a secondary desire to progress Action A.
 - <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0094-06-5GSG-proposed-draft-report-ieee-802-ec-5g-imt-2020-sc.pptx>
- Status
 - <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0112-00-5GSG-5g-sc-opening-status-for-ec.pdf>
- Meeting
 - Monday evening – review report
 - Tuesday evening – rescope?

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 5G standing committee meetings
 - Monday & Tuesday EVE
- IEEE 802 ITU standing committee
 - Wednesday 8am
- IEEE 802 IETF standing committee
 - Monday 4pm
- IEEE 802 task force
 - Thursday 10:30am

Incoming Liaisons

■ Maintenance:

- ITU-T SG15 LS322 on OTNT (from March)
http://www.ieee802.org/1/files/public/docs2016/liaison-SG15-LS322-OTNT_workplan-0316.zip

■ TSN:

- AVnu response (presentation)
- 1914
<http://www.ieee802.org/1/files/public/docs2016/liaison-IEEE1914-NGFI-0616.pdf>
- WFA (from May)
<http://www.ieee802.org/1/files/public/docs2016/liaison-WFA-Wi-Fi-HaLow-0516.pdf>
- IEC SC65C WG15
<http://www.ieee802.org/1/files/public/docs2016/liaison-IEC-SC65C-WG15-0716.txt>

■ YANG (i.e., TSN & Security):

- IETF on draft-wilton-netmod-intf-vlan-yang-03
- ITU-T SG15 LS353 on UML to YANG mapping
http://www.ieee802.org/1/files/public/docs2016/liaison-SG15-LS353-UML_to_YANG-0716.zip
- ITU-T SG15 LS362 request for UML
http://www.ieee802.org/1/files/public/docs2016/liaison-SG15-LS362-request_for_UML-0716.doc

Category D liaison with IEC SC65C WG15

- If a Category D Liaison were to be established,
 - the IEEE 802.1 WG agrees to follow ISO/IEC procedures conducted under this liaison relationship and,
 - proposes the following person to act as the liaison representative...
- Is it necessary?

IETF (IAB & IESG) – IEEE 802 Coordination

- <https://www.iab.org/activities/joint-activities/iab-ieee-coordination/>
 - Next face-to-face is Sept 9 in Paris
 - current open items, including:
 - Multicast on IEEE 802 wireless
 - NVO3
 - 802.1CF
 - Common OAM
 - IS-IS & 802.1Qca
 - DetNet & TSN
 - Privacy
 - YANG

Sanity check – current workload

Project	Subject	Last Motion	Current Stage	Draft#	Next action	PAR ends
802.1Qbu	Frame preemption	Sponsor Ballot	Approved - June 30	D3.1	Publication	Dec '16
802.1Qbv	Scheduled traffic	Sponsor Ballot	Approved - Dec 5	D3.1	Publication March 17	Dec '16
802.1Qbz	802.11 Bridging	Sponsor Ballot	Approved - June 30	D2.4	Publication	Dec '16
802.1Qca	SPB Path Control and Reservation	RevCom	Published - Mar 11	D2.1		Dec '16
802.1CB	Frame Replication and Elimination	WG ballot	WG ballot recirc	D2.4	WG ballot recirc	Dec '17
802.1AC-REV	MAC service	Sponsor Ballot	Sponsor Ballot recirc	D3.2	Sponsor Ballot recirc	Dec '17
802.1Qcc	SRP enhancements & performance improvements	TG ballot	WG ballot	D1.0	WG ballot	Dec '17
802.1ARce	AR: SHA-384 and P-384 Elliptic Curve	TG ballot	Editor's draft	D0.7	TG ballot	Dec '18
802.1CF	Access network (OmniRAN)	PAR approved	Editor's draft	D0.0	TG ballot	Dec '18
802.1AB-REV	Station and MAC Connectivity Discovery	RevCom	Published - Mar 11	D1.2		Dec '18
802.1AEcg	Ethernet data encryption devices	WG ballot	WG ballot recirc	D1.4	WG ballot recirc	Dec '18
802.1Qch	Cyclic queueing and forwarding	PAR approved	TG ballot	D0.1	TG ballot	Dec '19
802.1AS/Cor2	Tech and ed corrections	RevCom	Approved - Jan 29	D3.0	Publication	Dec '18
802.1AS-REV	Time synch enhancements	TG Ballot	TG Ballot	D4.0	TG Ballot	Dec '19
802c	Local Address space	TG Ballot	WG Ballot	D1.0	WG Ballot	Dec '19
802.1Q/Cor1	Tech and ed corrections	RevCom	Published - Jan 12			Dec '19
802.1Qci	Per Stream Filtering & Policing	TG Ballot	WG Ballot	D1.2	WG Ballot	Dec '19
802.1Qcj	Auto Attach to PBB	NesCom	Editor's draft	D0.1	TG Ballot	Dec '19
802.1Xck	802.1X YANG data model	WG ballot	TG ballot	D0.61	WG ballot	Dec '19
802.1CM	Profile for Fronthaul	NesCom	TG Ballot	D0.4	TG Ballot	Dec '19
802.1Qcn	EVB VDP extension	NesCom	Editor's draft	D0.0	Editor's draft	Dec '19
802.1Qcp	802.1Q YANG data model	TG Ballot	TG Ballot	D0.4	TG Ballot	Dec '19
802d	URN Namespace	NesCom	WG Ballot	D0.3	WG Ballot	Dec '19
802E	Privacy	NesCom	Editor's draft	D0.3	Editor's draft	Dec '19
802.1AX/Cor1	Tech and ed corrections	Sponsor Ballot	Sponsor Ballot	D0.5	Sponsor Ballot recirc	Dec '19
802.1CQ	Local Address protocol	PAR approved	Editor's draft	D0.1	Editor's draft	Dec '20
802.1BA/Cor1	Tech and ed corrections	WG ballot	Published - July 22	D0.0		
802.1Qcr	Asynchronous Traffic Shaping	PAR development	PAR development		NesCom	
802.1Qcs	MRP ++ (new reservation protocol)		PAR development		PAR development	
802.1AX/Rev	Link Aggregation		PAR approved		Editor's draft	

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

IEEE-SA Awards

- Nominations requested by July 31!
- Past Recipients
 - [Charles Proteus Steinmetz Award](#)
 - [Corporate Award](#)
 - [International Award](#)
 - [Standards Medallion](#)
 - [Distinguished Service Award](#)
 - [Sponsor Award: Corporate](#)
 - [Emerging Technology Award](#)
 - [Lifetime Achievement Award](#)

Standards Project Awards

- Offered to the chairs, Editor and significant contributors after publication
- Distributed
 - 802,
 - 802.1Q, 802.1Qbp, 802.1Qcd
 - 802.1Xbx
 - 802.1AX
- 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

TG agendas

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

Security TG Agenda

P802.1Xck (Port-Based Network Access Control – YANG Data Model)

- Task Group Ballot Resolution

P802.1ARce (Secure Device Identity – SHA-384 and P-384 Elliptic Curve)

- Task Group Ballot Resolution
- Possible conversion to revision PAR (new PAR, withdraw existing)

P802.1AEcg (MAC Security – Ethernet Data Encryption devices)

- Passed WG recirculation ballot, no outstanding negative ballots, 1 minor editorial
- Request EC permission for Sponsor Ballot
- Request Standard Group MAC Address (one needed)

P802E Privacy (Recommended Practice .. Privacy .. for IEEE 802 ...)

- Tuesday 7.45 pm open session

A.O.B

- MACsec in cars
- 802.1AE Revision PAR

Task Group will meet Monday p.m. through Thursday a.m. 9.00 am start scheduling around liaison/joint activities inc. ISO/IEC SC.

TSN TG

8:00

Monday	Tuesday	Wednesday	Thursday
AS	Maintenance	AX-Cor1, Qci, Qch,	802.1-802.11
Opening Plenary	Qcp YANG		LRP, liaisons
lunch break			
AS, Time Sync, 802d?	802d?, CB, Qcc, SRP	1904.3, 1914, CM	Closing Plenary
		802.1-802.24	
		CM, Qcr	
	802.1- 802.15	social	
802 EC 5G SC	5G SC Privacy		

~6pm

- Note that the agenda is subject to change, e.g., depending on progress etc.

- TSN agenda in details: <http://www.802tsn.org/agenda>

OmniRAN TG - Agenda

	Mon 07/25	Tue 07/26	Wed 07/27	Thu 07/28	Fri 07/29
08:00	802 EC Opening	802.11 WNG	802.11 ARC	PRIV ECSG	802.11 Closing
10:00					
10:30	802.1 Opening Plenary	802.11ARC	802.11/802.15 Mid-week Plenaries	OmniRAN closing	
12:30					
13:30		OmniRAN special session on WP-5A/ RLAN approach for 5G SC		802.1 Closing Plenary	802 EC Closing
15:30					
16:00	OmniRAN opening				
18:00					
		Joint 802.1/802.15			
	5G SC meeting	5G SC meeting			

OmniRAN Agenda for July 2016 F2F

- Review of minutes
- Reports
- Review of 802.1CF-D0.1 editor's draft
 - Contributions addressing issues of 802.1CF-D0.1
- Revised and new P802.1CF contributions
 - Contributions proposing new content
- Plan for 802.1CF-D0.2 draft
 - Bug fixes
 - New content
 - Timeline and plan for initial TG ballot
- Project planning
 - Timeline
 - External reviewers of 802.1CF-D0.2
- Contributions to 5G SC
- Status report to IEEE 802 WGs
- AOB

Maintenance

July 26, 2016 Agenda

- Patents and Guidelines
- Attendees
- Status
- New Maintenance items
 - none
- Existing Maintenance items
 - SC6
 - 802.1AB
 - 802.1AS
 - 802.1AX
 - 802.1AB
 - 802.1BA
 - 802.1Q-2014
 - 802.1AC
 - Security
- Comment resolution
 - 802.1AC-Rev/D3.2 – sponsor recirc
- Liaisons
 - ITU-T SG15
- SC6 comment resolution
- SC6 status

DCB & Addressing Agenda

Tuesday

DCB will meet Tuesday starting at 1030

- 1030 - 1230 802c WG ballot comment resolution
- 1400 - 1500 802.1Qcn editor's report
- 1500 - 1800 Any remaining 802c comment resolution followed by 802.1CQ presentations

Any other business?