

# Minutes of the 802.1 Plenary meeting held in San Francisco, CA, 12-17 July 2009

## Attendees

<u>SURNAME</u>	<u>First Name</u>	<u>Affiliation</u>
Ao	Ting	ZTE Corporation
Bialkowski	Jan	Infinera Corporation
Bjorkman	Bill	Verizon
Boatright	Rob	HARMAN INTERNATIONAL INDUSTRIES, INC
Bonnamy	Jean-Michel	France-Telecom
Brandner	Rudolf	Nokia Siemens Networks
Busch	Alex	BMW group
Carlson	Craig	QLogic Corporation
Cheng	Weiyang	Tellabs
Cherukuri	Rao	Juniper Networks, Inc.
Choi	Jin-Seek	Hanyang Univerisity
CHRISTIN	Philippe	WG802.1
Congdon	Paul	Hewlett Packard
Connor	Don	Fujitsu Network Communications
Crupnicoff	Diego	Mellanox Technologies
Dai	Jinyou	WG802.1
Davari	Shahram	TPACK
Desanti	Claudio	Cisco Systems, Inc.
Dhaliwal	Upkarjit	Future Wireless Technologies
Ding	Zhemin	Ericsson University of New Hampshire InterOperability Laboratory
Douglass	Keith	Laboratory
Eastlake, 3rd	Donald	Stellar Switches
Farkas	Janos	Ericsson
Fedyk	Donald	ALCATEL-LUCENT
Finn	Norman	Cisco Systems, Inc.
Frazier	Robert	Ericsson
Fuller	John	John Nels Fuller
Ganga	Ilango	Intel Corporation
Garner	Geoffrey	Samsung Electronics
George	Brett	Apple Inc
Ghanwani	Anoop	Brocade
Godbole	Avanindra	Juniper Networks Inc
Gravel	Mark	Hewlett-Packard
Gray	Eric	Ericsson
Gunther	Craig	HARMAN INTERNATIONAL INDUSTRIES, INC
Guo	Chris	EFJohnson Technology Inc.
Gusat	Mitch	IBM
Haddock	Stephen	Stephen Haddock
Hawkins	John	Ciena
Hendel	Ariel	Broadcom Corporation
Huang	Lu	China Mobile Research Institute
Hudson	Charles	Hewlett-Packard Development Company, L.P.
Hutchison	Guy	Marvell
Inslar	Romain	France Telecom
Jayakumar	Raja	WG802.1
Jeffree	Anthony	Broadcom & HP
Jha	Pankaj	Foundry Networks, Inc.
Jones	Girault	Apple Computer, Inc.

Karandikar	Abhay	Tejas Networks India Ltd/IIT Bombay
Kashyap	Prakash	Extreme Networks
Khakuria	Prithpal	WG802.1
Khan	Ali	Cadence Design Systems
Khojastepour	Mohammad	NEC Laboratories America
Kilcrease	Keti	Cisco Systems, Inc.
Kim	Do_Hyeun	WG802.1
Kim	Doyeon	ETRI
Kim	Taeun	Extreme Networks
Kim	Yongbum	Broadcom Corporation
King	Neal	Infineon Technologies AG
Klein	Philippe	Broadcom Corporation
Ko	Mike	IBM
Koenen	David	Hewlett-Packard Development Company, L.P.
Kondapalli	Raghu	Marvell
Kumar	Vinod	Tejas Networks Ltd
Kwan	Bruce	Broadcom Corp
Laihonen	Kari	Teliasonera
Lakshmikantha	Ashvin	Broadcom Corporation
Lemon	John	ADTRAN Inc.
Link	Jeremy	54 Oaks Inc.
Lipshteyn	Marina	Voltaire
Loh	Zhi-Hern	Fulcrum Microsystems
Look	Chris	CONSULTANT
Luo	Yuanqiu	Huawei Technologies USA
Lynch	Jeff	IBM
Mack-Crane	Ben	Huawei Technologies Co., Ltd.
Masters	Jeffery	Axxcelera Broadband Wireless
McGuire	Alan	British Telecommunications Plc
McGuire	Alan	British Telecom (BT)
Menuchery	Menucher	Marvell Semiconductors
Messenger	John	Adva Optical Networking Ltd
Montenegro	Gabriel	Microsoft
Mora	Matthew	Apple Computer, Inc.
Morris	John	Spirent Communications
Multanen	Eric	Intel Corporation
Nakano	Hiroki	Trans New Technology, Inc.
Narikawa	Satoshi	WG802.1
Noseworthy	Bob	University of New Hampshire
Olsen	David	HARMAN INTERNATIONAL INDUSTRIES, INC
Ouellette	Michel	Huawei Technologies
Pandey	Vijoy	BLADE Network Technologies
Pannell	Donald	Marvell
Parsons	Glenn	Nortel Networks
Pearson	Mark	Hewlett-Packard Development Company, L.P.
Pelissier	Joseph	Cisco Systems, Inc.
Peterson	David	Brocade Communications
Porat	Hayim	Ethos Networks
Pritikin	Max	Cisco Systems, Inc.
Randall	Karen	NSA/IAD
Roese	Josef	Deutsche Telekom AG
Rohde	Derek	QLogic Corporation
Rouyer	Jessy	Alcatel-Lucent
Sajassi	Ali	Cisco Systems, Inc.
Salowey	Joseph	Cisco Systems, Inc.
Saltsidis	Panagiotis	Ericsson

Sauer	John	Tellabs
Seaman	Michael	Mick Seaman
Sprecher	Nurit	Nokia Siemens Networks
Stanton	Kevin	Intel Corporation
Subramanian	Krishnamurthy	Force10 Networks
Sullerey	Anamaya	Chelsio Communications
Sultan	Robert	Huawei Technologies Co., Ltd.
Tardo	Joseph	Broadcom Corporation
Teener	Michael	Broadcom Corporation
Thaler	Patricia	Broadcom Corporation
Unbehagen	Paul	ALCATEL-LUCENT
Wadekar	Manoj	QLogic Corporation
Wei	Yuehua	ZTE Corporation
Weis	Brian	Cisco Systems, Inc.
White	Martin	Marvell
Winkel	Ludwig	Siemens AG Global
Winter	Robert	DELL
Wright	Michael D.	Panoptic Security, Inc.
Wu	Chien-Hsien	Broadcom Corporation
xue	li	Huawei Technologies Co. Ltd.
Zhang	David	WG802.1 Fiberhome Telecommunication Technologies Co., Ltd.
Zhou	Zhen	Ltd.

## 802.1 Opening Plenary

Opening Remarks

How .1 operates

Review of IEEE 802 patent policy

The required slides were shown to the committee

Call for patents

No one spoke up

Discussion about the patent rules

Presentation materials

Interim meeting locations

September – Tuscany Tuesday 8<sup>th</sup> through Friday 11<sup>th</sup>

Volterra, Tuscany [www.siafvolterra.eu](http://www.siafvolterra.eu)

Show of hands who will be going – 35

January 2010

January 2009 had penalties

Need to decide dates for the meeting this week

Need to support sponsor that get into penalty position

Executive Report

IEEE agreement with ISO for registration authority is be renegotiated

Long term plan for 802.2 – allow it to lapse & refer to the ISO/IEC 8802-2 version (which has been “stabilized”)

March 2011 Plenary will be in Singapore

802.21 – discussing Scope change – have been “media independent group” Have been doing stuff like “Emergency Services.” They are doing some things that look a lot like 802.1. There will be more discussion Friday to discuss what to do with .21

Training material

## Liaisons

802.11 joint meeting with AVB Thursday 8 – 10  
ITU and BBF

## PARS

<http://www.ieee802.org/PARs.html> - for other PARs

## MIBs

Practice to date has been to support the development of SNMP MIB modules in 802.1 standards

- Few “MIB weenies” in the group
- Often poor/late review, leading to issues with closing ballots
- Access to the “standard” compilation/syntax checking tools is difficult
- Unclear to what extent SNMP MIB are essential (other techniques in use such as web tools)

So do we wish to continue MIB support, or do something else?

How important are MIBs in the market place?

### Discussion

Depends upon standard – LLDP needs one but other standards might not

If there is a comment that states “need a MIB” then fine as long as the comment includes the MIB

Currently, it has been something of a policy that each standard must have a MIB

We need to have policy that lack of MIB cannot stop progress of a document

The solution is when the PAR is written determine if a MIB is needed

Need to think about using something else (XML)

We do need to maintain a protocol independent clause (12) that defines the management of the standard

What do we do with current projects?

Amendments to Q will need to have MIB

Three ways to look at the problem

Projects that do not need MIB

Projects that need MIB

Projects that could use a MIB but the project does not depend upon the MIB

This case should be handled in the normal process i.e. if no MIB is provided then the document will not have a MIB

Do we really need a formal specification i.e. the MIB compiles and does anyone have an alternate to MIBs?

Need formal methods and discussion about any alternatives

If anyone has examples and/or feedback about how MIBs are used in products from product groups it would be useful.

## TG Minutes

TGs need to provide TG minutes

## TG Agendas

Security – Mick Seaman

.1X-Rev and .1AR recirculation ballot review

.1AR purpose needs to be fixed

.1AR will most likely go to sponsor ballot

.1X-Rev will go to sponsor ballot

Internetworking – Steve Haddock

Ballot comment review and new work items

DCB – Pat Thaler

Ballot comment review  
AVB – Kevin Stanton  
Edge Virtual Bridging – Pat Thaler  
Modularization of Edge Virtual Bridging – Paul Congdon  
Presentation is on the website  
Edge Virtual Bridging: A potential simplification Joe Pelissier  
Presentation is on the website  
Discussion of the two proposals  
It was decided to move forward with Paul's approach

## Interworking TG Minutes

July 13, 2009 Interworking Task Group

IEEE Plenary, San Francisco

Meeting called to order at 9:00.

Stephen Haddock presented agenda for the week.

Presented patent policy slides. No response to the call for patents.

**802.1aq SPB:** Don Fedyk conducted comment resolution of 802.1aq-d2.0 Shortest Path Bridging task group ballot. The goal is to request a motion during the closing plenary to initiate Working Group ballot following this meeting.

<http://ieee802.org/1/files/public/docs2009/aq-fedyk-SPB-comment-summary-0709-v1.pdf>

<http://ieee802.org/1/files/private/aq-drafts/d2//802-1aq-d2-0-pdis-v2.pdf>

Recess at 12:05.

**EVB:** At 4:00pm, following the 802.1 Opening Plenary, there was a joint meeting with the DCB and Interworking Task Groups on the subject of Edge Virtual Bridging. Paul Congdon and Joe Pelissier gave presentations describing their respective proposals for moving toward a draft PAR.

<http://www.ieee802.org/1/files/public/docs2009/new-evb-congdon-vepa-modular-0709-v01.pdf>

<http://ieee802.org/1/files/public/docs2009/new-pelissier-EVBSimplification-0709.pdf>

Adjourn at 6:00pm.

July 14, 2009 Interworking Task Group

IEEE Plenary, San Francisco

Meeting called to order at 9:00.

Presented patent policy slides. No response to the call for patents.

**802.1aj TPMR:** John Messenger conducted comment resolution of 802.1aj-d3.3 Two Port MAC Relay working group recirculation ballot. The plan is to request a motion during the closing plenary to initiate sponsor ballot prior to the September interim.

<http://ieee802.org/1/files/public/docs2009/aj-messenger-editor-report-0709-v01.pdf>

<http://ieee802.org/1/files/private/aj-drafts/d3//802-1aj-d3-3-dis-v1.pdf>

**802.1aq SPB:** Don Fedyk continued comment resolution of 802.1aq-d2.0 task group ballot.

Break for lunch at 12:15.

Resume at 1:30.

**802.1aq SPB:** Don Fedyk continued comment resolution of 802.1aq-d2.0 task group ballot.

Adjourn at 5:30pm.

July 15, 2009 Interworking Task Group

IEEE Plenary, San Francisco

Meeting called to order at 9:00.

Presented patent policy slides. No response to the call for patents.

**MIRP:** Jin Seek Choi gave a presentation regarding MIRP and NMS registration issues:

<http://www.ieee802.org/1/files/public/docs2009/new-jin-mirp-issue-0709-v02.pdf>

**MIRP:** Norm Finn gave an update on MIRP issues:

<http://ieee802.org/1/files/public/docs2009/be-nfinn-mirp-0709-v01.pdf>

Stephen Haddock presented the liaison letter received from the BBF regarding duplicate MAC addresses, and led a discussion on a possible response.

<http://ieee802.org/1/files/public/docs2009/liaison-bbf-to-ieee-re-duplicate-MAC-v3-0709.doc>

Adjourn at 11:40 am.

Resume at 1:00 pm.

**802.1aq SPB:** Don Fedyk continued comment resolution of 802.1aq-d2.0 task group ballot.

Adjourn at 5:25pm.

July 16, 2009 Interworking Task Group

IEEE Plenary, San Francisco

Meeting called to order at 9:00.

Presented patent policy slides. No response to the call for patents.

**MIRP:** Hayim Porat gave an update on his presentation from Pittsburgh regarding using MIRP to register I-SIDs at an E-NNI:

<http://iee802.org/1/files/public/docs2009/new-porat-E-NNI-Registration-protocol-0709-v03.pdf>

**802.1aq SPB:** Don Fedyk led an informal discussion to try to summarize conclusions from the week.

**EVB:** At 11:00am held a joint meeting with the Data Center Bridging Task Group to summarize the work done this week on drafting an Edge Virtual Bridging PAR.

<http://www.ieee802.org/1/files/public/docs2009/new-evb-hudson-PAR-Discussion-0709-v01.pdf>

<http://www.ieee802.org/1/files/public/docs2009/new-evb-congdon-evbPar5C-0709-v01.pdf>

<http://www.ieee802.org/1/files/public/docs2009/new-pelissier-Draft-PortExtPar-0709.pdf>

Adjourn at 12:50am.

## AVB Task Group Minutes

<None provided>

## Security TG Minutes

IEEE 802.1 Security Task Group, July 14th-15th 2009, San Francisco, CA

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Tuesday AM July 14, Security Task Group

Patent Policy slide was shown to the group

Everyone is aware of the patent policy

Agenda

X Rev and 1AR

X Rev Ballot Results - Mick

Single disapprove and it was about the MIB. The syntax errors have been corrected and will be in the version that will be sent to Sponsor ballot

Mick will put a note about disapprove and the fix with the doc to send the doc to sponsor ballot

1AR – Max

The only outstanding disapprove is the PAR text issue (the purpose in the doc does not match the purpose statement in the PAR)

The plan – do these two things in parallel

Do the PAR modification

Forward the document to sponsor ballot with the disapprove and note the PAR modification is underway to fix the disapprove

Discussion about Brian's comments

Security considerations comment – Brian will submit on sponsor ballot and provide the exact text to sort out the PublicKeyEnabled statement about security vulnerability

1X-Rev

Review of Joe's comments

Review of Brian's comments

Meet again tomorrow morning

Wednesday AM July 15– Security

Patent Policy slide was shown to the group

Everyone is aware of the patent policy

Review the response to Dan's disapprove vote on 802.1X-Rev

The requested changes have been made and can be balloted at sponsor ballot

Most likely there will be at least one recirculation sponsor ballot

We have to put the OID in the doc

Have to figure out what is the correct process

Mick will check with Tony to make sure things are sorted out and correct

Reviewing Dan's comments to make sure everything is covered

Looks like everything is covered

Mick will check with Frank to make sure the MIB warnings are sorted out

Joe's email about clauses 8.1 and 8.3

Text to add at the end of the last paragraph of clause 8.1 to handle a potential sponsor ballot comment

Clause 8.3 sort out the behaviors of eapTimeout

Brian's comments and concerns

Got Brian's concerns sorted out

Discussion about logistics of sponsor ballot

Ballot runs thirty days

If things go well we could have recirculation ballot complete by November

Discussion about what is next after .1X-Rev and .1AR

There will be some maintenance issues coming up



## DCB TG Minutes

Tuesday - 7/14/2009

- Morning
- Pat Thaler: Agenda for the week was presented
- Pat Thaler: IEEE patent slides were presented and call for patents was issued
- Norm Finn: Presented QCN ballot results
  - o legal vote achieved - 56% response rate
  - o anticipates a recirculation ballot for next time
- Marina Lipshteyn: presented "Differentiated QCN"
  - o can CN implementation send CNMs biased towards flows with certain 'color'
- Ashvin Lakshmikantha: QCN in Overlay Networks
  - o a proposal for handling CNMs in layered networks
- Norm Finn: Provider Backbone Bridges and Congestion Notification
  - o Continuing with previous presentation - how to combine PBB and CN
  - o Choices between different forms of layer violations
  
- Afternoon
- Abdul Kader Kabbani: QCN HW implementation presented
  - o comparison with and without link Pause
  - o comparison of BIC, New-Reno TCP with and without QCN
- Norm Finn: Qau comment resolution
- Pat Thaler: Discussion of PBB options - straw poll w/ Chicago rules
  - o Don't support PBB networks - (votes: 1)
  - o CP translates - creates correct CNM data format - (votes: 18)
  - o I-component performs translation of CNM - (votes: 12)
    - § send frame data back in CNM - various choices available
  
- Evening
  - o Discussion and work on the proposed Edge Virtual Bridging PARs

Wednesday - 7/15/2009

- Morning
- Pat Thaler: Reminder of IEEE patent policy and slides
- Craig Carlson: Qaz comment resolution
  - o PAR is missing mention of DCBX - plan to amend PAR
  
- Afternoon
- Craig Carlson: Finished Qaz comment resolution
- Pat Thaler: Reviewed amended scope for Qaz PAR

Thursday - 7/16/2009

- Morning
- Pat Thaler: Reminder of IEEE patent policy and slides
- Norm Finn: Open issues with Qau
  - o PBB - CNM discussion with Mick
  - o Straw Poll - one vote per person this time
    - § don't do it - (votes: 1)
    - § BEB does transform (i.e. 2.1 draft) - (votes: 16)
      - Adjustable amount of header returned

- CNM src address from BEB
  - § BCB does the transform - (votes: 5)
- Pat declared consensus was for BEB does the transform, comment response updated to reflect that.
  - CN tag discussion
    - § Straw poll on comment to remove CN-tag
    - § Accept in principle (remove CN-tag) - (votes: 4)
    - § Reject comment (keep document as-is) - (votes: 10)
- Joint meeting with Interworking - presentation of Edge Virtual Bridging PAR drafts
  - Chuck Hudson: Edge Virtual Bridging draft
  - Joe Pelissier: Port Extender and Remote Replication PAR draft
  - Pat Thaler: reviewed discussion about returning CNMs through PBBs.

## 802.1 Closing Plenary

Closing Plenary – Thursday PM

The required patent slides were shown to the committee and the patent policy was discussed

Call for patents was made

No one responded

Interim Meetings

September Tuscany

January 2010 two offers on the table

- 1) New Orleans to help with hotel penalty
  - a. Week Jan 25<sup>th</sup>
  - b. MEF is holding their Jan meeting the week of the 25<sup>th</sup> so there is a conflict
- 2) Bangalore, India sponsored by Tejas
  - a. 1<sup>st</sup>, 2<sup>nd</sup>, or 4<sup>th</sup> week of Jan are possible
  - b. Presentation on Bangalore
- 3) Discussion
  - a. Discussion about issue of getting to Bangalore, cost, international travel, conflict with MEF
  - b. Is a January interim useful
    - i. DCB needs an interim but other groups may not need an interim
  - c. The meeting needs to be later in the month but this is conflicted with MEF
  - d. Maybe do not need an interim or find another venue for the 18<sup>th</sup>

Future meetings

No offers for May 2010

John is looking at York, England for September 2010

Straw poll Lots of folks would like to go – no one said it was a bad idea

802.21 Emergency Services PAR

They have decided not to submit this PAR

Likely that an EC study group will be proposed

TG Reports

DCB – Pat

- Need a change to Qaz PAR
- Will have a motion to allow the change to be sorted out at the interim
- Two draft PARs for EVB

AVB – Michael

- One more WG for as
- Presentation from Omega project, gigabit home networks
- Joint meeting with .11aa, video streaming
  - Need a drop precedence mechanism
  - But a mechanism does exist in 802.1
  - Need to look at 802.1 mechanisms and see if it fulfills .11 needs
- Tony will be doing 802.1ba
- Will be meeting at the interim using three days

Security – Mick

- 802.1X-Rev and 802.1AR ballot comment review
- 802.1AR will have a modification to the PAR so the doc can have the purpose as is required
- Sponsor ballot processing via teleconference so the documents hopefully be ready for REVCOM out of the November plenary
- 802.1X-Rev will have a maintenance activity

Internetworking – Steve

- 802.1aq – Shortest Path Bridging comment resolution, which was the bulk of the work
- 802.1aj – TPMR ballot comment work, the document is ready for sponsor ballot
- Draft letter for liaison letters that we received
- Will meet every day at the September interim meeting

Sanity Check

- Discussion about what to do about Q Rev
  - Need to do an edition to get things rolled up
  - There is an open PAR for Q Rev
    - There was a “deal” with the standards board to avoid the revision
    - The standards board allowed us to go to Dec 2010 for the revision
    - Best bet is do an edition and fix the ah bug
    - This may not be possible
    - It is not the end of the world if REVCOM stops new work until the revision is done
  - We can deal with this problem
  - There will come a time when we say this is the stuff that goes into Q-Rev
  - We want aq in Q-Rev so when aq is done we can see what else ready and roll it into Q-Rev

Interim Issues

- MEF must meet Jan 25<sup>th</sup> due to the contract
- MEF is meeting in LA
- Is there a possibility of meeting the Jan 18<sup>th</sup>
- Two possibilities
  - No meeting, this hurts DCB

Find a meeting venue the week the 18<sup>th</sup> in New Orleans, LA, or Bay area

Straw Poll about three option

- 1) No meeting - 0
- 2) Meet the 25<sup>th</sup> with one of the two options given - 20
- 3) Find a meeting venue in LA, New Orleans, or Bay Area – 26

Straw Poll Meeting the week of 25th

- 1) Who would prefer to attend meeting in New Orleans – 24
- 2) Who would prefer to attend meeting in Bangalore – 10

So if the meeting is the week of the Jan 25<sup>th</sup> then it is New Orleans

Straw Poll

- 1) How many would suffer if the meeting was held the 25th – several

So we must make a decision in September about where to hold the Jan meeting

Motions

All motions are found in <http://www.ieee802.org/1/files/public/minutes/2009-07-closing-plenary-slides.pdf>

Motion to adjourn

Wright Claudio

Unanimous