

IEEE 1904 Access Networks Working Group

Sponsored by the IEEE Communications Society

25-26 April 2016
San Jose, CA USA

Minutes

Chair: Glen Kramer
Vice-Chair: Ken-Ichi Suzuki
Executive Secretary: Zhou Zhen
Chief Editor: Marek Hajduczenia
Meeting Recorder: Zhou Zhen

Day 1, Monday, 25 April 2016

1. Call to Order

- The meeting was called to order at 9:00 am.
- All present introduced themselves and declared their affiliation.
- A sign in sheet captured attendance each day.
- **10 voting member attended meeting. Quorum was reached.**

2. Executive Secretary Report

- Zhou Zhen, Executive Secretary, presented [anwg_1604_exec_report.pdf](#).
- A report on working group member was provided.

3. Chair's Opening Remarks

- Chair Kramer presented ANWG opening remarks [anwg_1604_opening.pdf](#).
- Chair Kramer presented WG updates since last meeting.
- Chair Kramer presented the plan for this meeting.

4. Approval of Agenda

- Chair Kramer presented the agenda, [anwg_1604_agenda.pdf](#).
- **Motion#1:**

Approve the agenda for the February 2016 meeting as presented in [anwg_1604_agenda.pdf](#).

Moved: Marek Hajduczenia, Bright House Networks

Seconded: Jouni Korhonen, Broadcom Corp.

(Procedural, required >50%)

Motion passed by voice vote without opposition

5. Approval of Past Meeting Minutes

- Chair Kramer presented [anwg_1602_minutes_unapproved.pdf](#).
- **Motion#2:**

Approve minutes of the February 2016 meeting as recorded in [anwg_1602_minutes_unapproved.pdf](#).

Post the approved minutes on the WG website as [anwg_1602_minutes_approved.pdf](#).

Moved: Zhou Zhen, Fiberhome

Seconded: Marek Hajduczenia, Bright House Networks

(Procedural, required >50%)

Motion passed by voice vote without opposition

6. IEEE Patent Policy

- Chair Kramer displayed the patent slides. A call for potentially essential patents was made at **9:30 am**. No potentially essential patent claims were declared, and no holders of potentially essential patents were identified.

7. Treasurer's Report

- Zhou Zhen, Treasurer, presented [anwg_1604_treasurer_report.pdf](#).
- Balance of WG account and details were shown.

8. Logistics for June 2016 meeting

- Chair Kramer suggested that work group, RMTF and TF2 should have teleconference meeting for June.
- TF3 may have face to face meeting. TF3 chair should make the decision after this meeting.

9. Revision & Maintenance Task Force Opening Report

- Curtis Knittle, Revision & Maintenance Task Force Chair, presented the Task Force Opening Report, [rmtf_1604_opening.pdf](#).

10. Resolution of open maintenance requests

- Marek Hajduczenia, Revision & Maintenance Task Force Editor, presented Comments with Proposed Responses, [rmtf_1604_comments_1904_1_proposed.xlsm](#).
- All comments were resolved.

11. Revision & Maintenance Task Force Closing Report

- Curtis Knittle, Revision & Maintenance Task Force Chair, presented the Task Force Closing Report, [rmtf_1604_closing.pdf](#).

- ***Motion#3:***

Authorize the Editor to incorporate the resolved comments from the April 2016 meeting as recorded in [rmtf_1604_comments_1904_1_resolved.pdf](#) and produce draft 1904.1-rev/D2.3. Editor has a license to resolve conflicts and apply editorial changes as needed.

Moved: Curtis Knittle, CableLabs

Seconded: Marek Hajduczenia, Bright House Networks

(Technical, Required >= 2/3)

11 yes, 0 no, 0 abstained

Motion Passes

- After discussion, Sponsor Ballot of 1904.1-Rev would be started at August 2016.

12. RMTF Liaison to CableLabs

- Curtis Knittle, Revision & Maintenance Task Force Chair, presented the liaison from RMTF to CableLabs, [anwg_1604_LS_CL_outgoing.pdf](#).

- ***Motion#4:***

Authorize IEEE 1904 Chair to send liaison provided in [anwg_1604_LS_CL_outgoing.pdf](#) to CableLabs together with draft 1904.1-rev/D2.3. Chair has editorial license to make necessary changes to the liaison letter. .

Moved: Curtis Knittle, CableLabs

Seconded: Marek Hajduczenia, Bright House Networks
(Procedural, required>50%)
Motion passed by voice vote without opposition

13. Status update on 1904.2 and EtherType assignment discussion

- There was no contribution of 1904.2 in this meeting. Chair and editor of 1904.2 did not attend this meeting.
- Chair Kramer, presented the letter from IEEE Registration Authority, [RA letter 1904 ethertype.pdf](#) and 1904.2 UMT frame format, [tf2_1408_kramer_2.pdf](#).
- Chair Kramer explained that IEEE Registration Authority gave 1904 WG only one EtherType: A8C8.

14. P1904.3 (Task Force 3) Opening Report

- Jouni Korhonen, Task Force 3 Chair, presented the Task Force Opening Report, [tf3_1604_opening.pdf](#).

15. EtherType and RoE common header format

- Jouni Korhonen, Broadcom Corporation, presented EtherType and RoE common header format, [tf3_201604_korhonen_ptk_type_1.pdf](#).
- **Motion#5:**
Allocate multiple subtypes as RoE protocol identifiers.
Moved: Kevin Bross, Intel Corporation
Seconded: Jouni Korhonen, Broadcom Corp.
(Technical, Required>=2/3)
7 yes, 3 no, 0 abstained
Motion Passes

16. 1PPS Signal

- Kevin Bross, Intel Corporation, presented 1PPS Signal, [tf3_1604_bross_1pps_1.pdf](#).

17. Time Accuracy of Sequence Numbers

- Kevin Bross, Intel Corporation, presented Time Accuracy of Sequence Numbers, [tf3_1604_bross_seqnum_1.pdf](#).

18. RF Accuracy - Presentation time & sequence numbers

- Richard Maiden, Intel Corporation, presented RF Accuracy - Presentation time & sequence numbers, [tf3_1604_maiden_rf_timing_1a.pdf](#).

The WG recessed at 4:45pm.

Day 2, Tuesday, 26 April 2016

The WG reconvened at 9:05am. Introductions by all attendees were made.

Jouni Korhonen, Task Force 3 Chair, resumed Task Force 3 meeting.

19. Redefining Timestamp Precision

- Kevin Bross, Intel Corporation, presented Redefining Timestamp Precision, [tf3_1604_bross_timestamp_1.pdf](#).
- Chair Kramer requested that concrete proposals for timestamp be brought forward for Task Force consideration.

20. RoE Use Cases

- Jouni Korhonen, Broadcom Corporation, on behalf of Recharad Tse, presented RoE Use Cases, [tf3_1604_tse_use_cases_1.pdf](#).

21. Data Path vs Control Path for Timing of Radio Data

- Jouni Korhonen, Broadcom Corporation, on behalf of Recharad Tse, presented Data Path vs Control Path for Timing of Radio Data, [tf3_1604_tse_datapath_1.pdf](#).

22. Control Packets for RoE

- Kevin Bross, Intel Corporation, presented control Packets for RoE, [tf3_1604_bross_control_packets_1.pdf](#).

23. RoE Link Setup

- Gareth. Edwards, Xilinx, presented RoE Link Setup, [tf3_1604_edwards_link_setup_1.pdf](#).

24. Handling Multiple K-Characters

- Kevin Bross, Intel Corporation, presented Handling Multiple K-Characters, [tf3_1604_bross_k_chars_1.pdf](#).

25. Task Force 3 Closing Report

- Jouni Korhonen, Task Force 3 Chair, presented Task Force 3 Closing Report, [tf3_1604_closing.pdf](#).

- **Motion#6:**

Accept as a baseline the format of the timestamp as presented in [tf3_1604_bross_timestamp_4.pdf](#) page 8.

Moved: Kevin Bross, Intel Corporation

Seconded: Yasser Bajwa, Hon Hai Precision

(Technical, Required $\geq 2/3$)

8 yes, 0 no, 0 abstained

Motion Passes

- **Motion#7:**

Accept adding a recommendation of the 1PPS output as outlined in [tf3_1604_bross_1pps_2.pdf](#) page 2 second bullet.

Moved: Kevin Bross, Intel Corporation

Seconded: Xhafer Krasniqi, NEC

(Technical, Required $\geq 2/3$)

8 yes, 0 no, 0 abstained

Motion Passes

- **Motion#8:**

Editor shall produce the draft D1.0 of the 1904.3 specification and incorporate the baseline proposal motions #5, #6 and #7 as agreed in this meeting. The editor has an editorial license to make the necessary changes to the draft.

Moved: Jouni Korhonen, Broadcom Corp.

Seconded: Richard Maiden, Intel Corporation

(Technical, Required $\geq 2/3$)

10 yes, 0 no, 0 abstained

Motion Passes

26. WG Closing Report

- Chair Kramer presented the WG Closing Report, [anwg_1604_closing.pdf](#).
- Transferring 1904.3 into 1914 was discussed. Chair Kramer shown three Straw Poll made in February meeting. A new Straw Poll was made.

- **Straw Poll #1**

I support the transfer of the RoE project from 1904.3 to 1914.x

Yes: 29

No: 0

- **Motion#9:**

The chair shall take the steps necessary to transfer the 1904.3 RoE project to the 1914 NGFI working group.

Moved: Curtis Knittle, CableLabs

Seconded: Xhafer Krasniqi, NEC

(Super-majority, Required $\geq 2/3$)

1904 voters only: Y: 8 N: 0 A: 2 (11 in the room)

All attendees: Y: 25 N: 0 A: 3 (29 in the room)

Motion Passes

- WG planned to have next meeting on June. 1904.1 and 1904.2 would meet by teleconference, 1904.3 might meet by face-to-face. TF3 chair should make the decision after this meeting.

27. Unfinished Business

- No unfinished business was brought before the WG.

28. New Business

- No new business was brought before the WG.

- **Motion#10:**

Move to adjourn the meeting.

Moved: Kevin Bross, Intel Corporation

Seconded: Yasser Bajwa, Hon Hai Precision

Motion passed by voice vote without opposition.

The WG adjourned at 5:07pm.

Attendance Record

First Name	Last Name	Affiliation	Attendance	
			Monday, April 25, 2016	Tuesday, April 26, 2016
Mohammad	Akhter	Integrated Device Technology Canada, Inc.		X
Andres	ARJONA	Nokia	X	X
Filippos	Asimakopoulos	University of Kent	X	X
Yasser Kilde	Bajwa	Hon Hai Precision Ind. (Foxconn)	X	X
Ralph	Bechstein	Viavi Solutions	X	X
Kevin	Bross	Intel Corp.	X	X
Tien-Shou	Chang	Hon Hai Precision Ind. Co.	X	X
Binrong	Chen	Hon Hai Precision Ind. (Foxconn)	X	X
Divya	Chitimalla	UC Davis	X	X
Peter Kwangho	Cho	Actus Networks	X	
Jinseek	Choi	Hangyang University	X	X
Moonchan	Choi	Actus Networks	X	X
Gareth	Edwards	Xilinx	X	X
Joerg-Peter	Elbers	ADVA Optical Networking	X	X
Marek	Hajduczenia	Bright House Networks	X	
Jinri	Huang	CMRI	X	X
Curtis	Knittle	CableLabs	X	X
Jouni	Korhonen	Broadcom Corporation	X	X
Glen	Kramer	Broadcom Corp.	X	X
Xhafer	Krasniqi	NEC	X	X
Mark	Laubach	Broadcom	X	X
Bomin	Li	Comcores	X	X
Richard	Maiden	Altera	X	X
Amit	Oren	Broadcom		X
Erik	Pennings	SOLiD		X
Michelle	Perras	InterDigital	X	X
Philippe	Sehier	Alcatel-Lucent	X	X
Hans	Sjostrand	Infinera		X
Ken-Ichi	Suzuki	NTT Corporation	X	X
Tony (Shau-Chia)	Tam	Fujitsu Network Communications	X	

Thomas	Tan	Verizon		X
Perminder	Tumber	Xilinx	X	X
Stuart	Whitehead	Anritsu	X	X
Zhen	Zhou	Fiberhome	X	X

The meeting attendance is only credited for those who attended at least 50% of meeting duration.