

IEEE 1904 Access Networks Working Group

Sponsored by the IEEE Communications Society

27-29 October 2015

Hillsboro, OR USA

Minutes

Chair: Glen Kramer

Vice-Chair: Ken-Ichi Suzuki

Executive Secretary: Zhou Zhen

Chief Editor: Marek Hajduczenia

Meeting Recorder: Zhou Zhen

Day 1, Tuesday, 27 October 2015

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.
- **11 voting member attended meeting. Quorum was reached.**

2. Executive Secretary Report

- Zhou Zhen, Executive Secretary, presented [anwg_1510_exec_report.pdf](#).
- A report on working group member was provided.

3. Chair's Opening Remarks

- Chair Kramer presented ANWG opening remarks [anwg_1510_opening.pdf](#).
- Chair Kramer presented WG updates since August meeting.
- Chair Kramer presented the plan for this meeting.

4. Approval of Agenda

- Chair Kramer presented the agenda, [anwg_1510_agenda.pdf](#).

- **Motion#1:**

Approve the agenda for the June 2015 meeting as presented in [anwg_1510_agenda.pdf](#).

Moved: Jouni Korhonen, Broadcom Corp.

Seconded: Kevin Bross, Intel Corp.

(Procedural, required >50%)

Motion passed by voice vote without opposition

5. Approval of Past Meeting Minutes

- Chair Kramer presented [anwg_1508_minutes_unapproved.pdf](#).

- **Motion#2:**

Approve minutes of the August 2015 meeting as recorded in [anwg_1508_minutes_unapproved.pdf](#).

Post the approved minutes on the WG website as [anwg_1508_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 9:33 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_1510_treasurer_report.pdf](#).
- Balance of WG account and details were shown.

8. Logistics for December 2015 meeting

- Chair Kramer said Broadcom Corp. would like to host December 2015 meeting, but needed more time to make sure the meeting room is scheduled. Curtis Knittle said that CableLabs could host December 2015 meeting if Broadcom don't have meeting room.

9. Revision & Maintenance Task Force Opening Report

- Curtis Knittle, Revision & Maintenance Task Force Chair, presented the Task Force Opening Report, [rmtf_1510_opening.pdf](#).

10. Resolution of open maintenance requests

- Marek Hajduczenia, Revision & Maintenance Task Force Editor, presented open maintenance requests, [rmtf_1510_mrdb_1904_1_20151022_open.pdf](#).
- All open maintenance requests were resolved after discussion.

11. Multicast issues for Package A

- Curtis Knittle, Cablelabs, presented Motivation For Changes to Package A Multicast, [rmtf_1510_knittle_1.pdf](#).
- Glen Kramer, Broadcom Corporation, presented Multicast for Package A, [rmtf_1510_kramer_multicast_outline_1.pdf](#).
- Glen Kramer, Broadcom Corporation, also presented proposed changes for Package A, [rmtf_1510_kramer_multicast_operation_1.pdf](#), [rmtf_1510_kramer_multicast_llid_value_1.pdf](#), [rmtf_1510_kramer_multicast_new_attr_1.pdf](#).

12. Revision & Maintenance Task Force Closing Report

- Curtis Knittle, Revision & Maintenance Task Force Chair, presented the Task Force Closing Report, [rmtf_1510_closing.pdf](#).
- **Motion#3:**
Authorize the Editor to incorporate the approved maintenance request resolution material from the October 2015 meeting as recorded in [rmtf_1510_mrdb_1904_1_20151027.pdf](#) and produce draft D2.0. 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)
8 yes, 0 no, 1 abstained

13. Ballot and comment Submission Process

- Marek Hajduczenia, Chief Editor, presented Ballot and comment Submission process,

[anwg_1510_hajduczenia_1.pdf](#).

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

- Jouni Korhonen, Task Force 3 Chair, presented the Task Force Opening Report, [tf3_1510_opening.pdf](#).

15. Call Drop Tests

- Richard Maiden, Altera Corporation, presented Call Drop Tests, [tf3_1510_maiden_call_drop_tests_1.pdf](#).

The WG recessed at 3:45pm.

Day 2, Wednesday, 28 October 2015

The WG reconvened at 9:05am.

16. Sequence number and frame start

- Yasser Bajwa, Hon Hai Technology Group, presented Sequence number and frame start, [tf3_1510_bajwa_seqnumber_1.pdf](#).

17. Sequence number revisited

- Jouni Korhonen, Broadcom Corporation, presented Sequence number revisited, [tf3_1510_korhonen_seqnum_1.pdf](#) and [tf3_1510_korhonen_seqnum_draft_change_1.docx](#).

18. Start of Frame

- Jouni Korhonen, Broadcom Corporation, presented start of Frame, [tf3_1510_korhonen_sflag_1.pdf](#) and [tf3_1510_korhonen_sflag_draft_change_1.docx](#).
- **Motion#4:**
- *Accept as the base line proposal the RoE header as shown in [tf3_1510_korhonen_sflag_1a.pdf](#) page 3 with the following change: remove S-flag bit from the RoE header and repurpose it as an additional flow_id bit. The start of radio frame can be determined through other means.*

Moved: Jouni Korhonen, Broadcom Corp.

Seconded: Yasser Bajwa, Hon Hai Technology Group

(Technical, Required >= 2/3)

7 yes, 0 no, 1 abstained

- **Motion#5:**
- *Accept as the baseline proposal for the data packet type sequence number field:*
 - *Two consecutive sub-fields A and B*
 - *Length of A is 1 to n bits and length of B is 0 to m bits so that $m+n \leq$ maximum size of the sequence number field*
 - *A has the following configurable properties:*
 - *increment byte count, sample count, packet count, constant, etc.*
 - *definition of the wrap-around for A.*
 - *B has the following configurable properties: sequence number*
 - *increment by a constant value when A wraps around.*

- *definition of the wrap-around for B.*
- *Configurable properties are per flow_id.*
Moved: Jouni Korhonen, Broadcom Corp.
Seconded: Yasser Bajwa, Hon Hai Technology Group
(Technical, Required $\geq 2/3$)
7 yes, 0 no, 1 abstained

19. Simultaneous use of timestamps and sequence numbers

- Jouni Korhonen, Broadcom Corporation, presented **Simultaneous use of timestamps and sequence numbers**, [tf3_1510_korhonen_tssn_1.pdf](#).

20. Extended header space revisited

- Jouni Korhonen, Broadcom Corporation, presented Extended header space revisited, [tf3_1510_korhonen_exthdr_1.pdf](#) and [tf3_1510_korhonen_exthdr_draft_change_1.docx](#).
- **Motion#6:**
- *Accept as the baseline proposal to remove the extended_header_space from the common frame format and describe any explicit use of longer header beyond 48 bits in the packet type definition.*
Moved: Kevin Bross, Intel Corp.
Seconded: Richard Maiden, Altera Corp.
(Technical, Required $\geq 2/3$)
8 yes, 0 no, 1 abstained

21. Discussion on Reimbursement to meeting host

- Chair Kramer explained the situation that meeting host of this meeting spent more amount of money than this meeting's registration fee. In order to be fair to all the hosts for future meeting, working group made motion as below.
- **Motion#7:**
- *Reimbursement to meeting hosts for hosting a WG meeting shall be limited to the amount of registration fees collected for the given meeting, subject to the following deductions:*
 - *Applicable credit card processing fees*
 - *5% deduction to cover Sponsor overhead*
Moved: Zhou Zhen, Fiberhome
Seconded: Marek Hajduczenia, Bright House Networks
(Required $\geq 2/3$)
8 yes, 0 no, 2 abstained

22. PAR for NGFI

- Jouni Korhonen, Task Force 3 Chair, presented PAR for NGFI (Next Generation Fronthaul Interface).

23. Support for Bi-directional flows

- Kevin Bross, Intel Corp., presented Support for Bi-directional flows, [tf3_1510_devi_flow_id_1.pdf](#).

The WG recessed at 4:30pm.

Day 3, Thursday, 29 October 2015

The WG reconvened at 9:04am.

24. Structure-agnostic Encapsulation

- Kevin Bross, Intel Corp., presented Structure-agnostic Encapsulation, [tf3_1510_bross_agnostic_1.pdf](#).

25. CPRI structure-aware mapper

- Jouni Korhonen, Broadcom Corporation, presented CPRI structure-aware mapper, [tf3_1510_korhonen_cprimapper_1.pdf](#) and [tf3_1510_korhonen_cprimapper_draft_change_1.docx](#).
- **Motion#8:**
- *Accept as the baseline proposal [tf3_1510_korhonen_cprimapper_draft_change_1.docx](#) except Section 6.3.3.3 and Section 6.3.3 concerning “AxC_ctrl and VSD data” handling.*
Moved: Jouni Korhonen, Broadcom Corp.
Seconded: Yasser Bajwa, Hon Hai Technology Group.
(Technical, Required >= 2/3)
-Quorum not present
-This is TF motion; 11 people in the room
10 yes, 0 no, 1 abstained

26. Task Force 3 Closing Report

- Jouni Korhonen, Task Force 3 Chair, presented Task Force 3 Closing Report, [tf3_1510_closing.pdf](#).

27. WG Closing Report

- Chair Kramer presented the WG Closing Report, [anwg_1510_closing.pdf](#).
- WG planned to have next meeting on December 15-17th, 2015.

28. Unfinished Business

- No unfinished business was brought before the WG.

29. New Business

- No new business was brought before the WG.
- **Motion#9:**
Move to adjourn the meeting.
Moved: Kevin Bross, Intel Corp.
Seconded: Lu Yang, RITT
Motion passed by voice vote without opposition.

The WG adjourned at 3:32pm.

Attendance Record

Last Name	First Name	Affiliation	Attendance		
			Tuesday, October 27, 2015	Wednesday October 28, 2015	Thursday October 29, 2015
Bajwa	Yasser	Hon Hai Technology Group	X	X	X
Bross	Kevin	Intel Corp.	X	X	X
Hajduczenia	Marek	Bright House Networks	X	X	
Knittle	Curtis	CableLabs	X	X	X
Korhonen	Jouni	Broadcom Corp.	X	X	X
Kramer	Glen	Broadcom Corp.	X	X	X
Krasniqi	Xhafer	NEC	X	X	X
Lanzani	Christion	Xilinx	X	X	X
Li	Bomin	Comcores	X	X	X
Lu	Yang	RITT	X	X	X
Maiden	Richard	Altera	X	X	X
McCallan	Chris	Fujitsu	X	X	X
Ma	Shijia	CMRI	X	X	X
Suzuki	Ken-Ichi	NTT Corporation	X	X	X
Zhou	Zhen	Fiberhome Technologies	X	X	X

* The meeting attendance threshold was not met. The meeting attendance is only credited for those who attended at least 50% of meeting duration.