Minutes of 802.18 (RR-TAG) Meeting

(Bangkok, THIALAND, November 2018)

IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes |
| Date: 12-16 November 2018 |
| Name | Affiliation | Address | Phone | email |
|  |
| Author(s):  |
| Timothy Jeffries | Huawei Technologies | Dallas, Texas | (469)277-5912 | timothy.jeffries@huawei.com |
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| Officer presiding:  |
| Jay Holcomb, Chair | Itron, Inc. | Liberty Lake (Spokane) WA | (509)891-3281 | jholcomb@ieee.org |

Abstract

Minutes of IEEE 802 RR-TAG Plenary meeting in Bangkok, Thailand in November 2018

**Tuesday, November 13th, 2018, AM2**

**CALL TO ORDER [ADMINSITRATIVE]**

1. The Chair, Jay Holcomb (Itron), called the meeting to order at 10:31 local.
	* About 30 people in the room (See list below)
2. The Chair used the agenda meeting plan document 18-18/0144r01.
3. Chair noted increase in 802.18 membership to 42 voting members
4. Chair reviewed Slide 2, Call to Order / Administrative Items, and subsequent Guidelines and rules governing Meetings and Participation in IEEE 802
5. Chair reviewed Slide 5, the meeting Agenda for the week:
	* Call to Order
		+ Attendance server is open
	* Administrative items
	* Approve agenda & last minutes
		+ Still looking for Vice Chair
	* Discussion items
		+ Guest presentation from APT (during Thursday’s session)
			- Mr. Masanori Kondo is Deputy Secretary General of Asia-Pacific Telecommunity (APT)
			- What is happening in ITU Region 3
		+ EU Items
			- General items, ETSI, CEPT, etc.
		+ Presidential Memorandum on Developing a Sustainable Spectrum Strategy for America's Future
			- What can we support in it?
			- Make people aware
		+ 6 GHz NPRM and single voice from IEEE 802
			- Cont. working on 6 GHz NPRM comments to Option 2
		+ General discussion items:
			- From teleconference in the past weeks for Plenary attendees
				1. IEEE SA intelligent spectrum allocation and management statement is out
				2. India licenses not required at 5 GHz, and UWB w/6 GHz
				3. NCTA 5.9 GHz letter
				4. Phase I testing of prototype U-NII-4 devices
				5. Net Neutrality is sort of back
				6. TVWS *ex parte* from 44 companies – rules for rural areas
		+ Teleconferences moving forward.
	* Actions required
		+ IEEE 802 comments regarding FCC 6 GHz NPRM
	* AOB and Adjourn
6. Chair called for Motion to *Approve* the meeting agenda, as stated on Slide #6
	* ***Motion: To approve the agenda as presented on previous slide***
		+ ***Moved by: Stuart Kerry (Ruckus)***
		+ ***Seconded by: Tim Harrington (ProID)***
		+ ***Discussion - None***
		+ ***Results: Chair called for Unanimous consent with no objections***
		+ ***Motion PASSED***
7. Chair called for Motion to *Approve* March 2018 meeting minutes, as stated on Slide #6
	* ***Motion: To approve the minutes from the IEEE 802.18 Interim meeting 11-13 September 2018 in document:*** [***https://mentor.ieee.org/802.18/dcn/18/18-18-0114-00-0000-meeting-minutes-sept-2018-f2f-waikoloa-hi.docx***](https://mentor.ieee.org/802.18/dcn/18/18-18-0114-00-0000-meeting-minutes-sept-2018-f2f-waikoloa-hi.docx) ***Posted: 17-Sep-2018 16:16:03 ET***
		+ ***Moved by: Peter Ecclesine (Cisco)***
		+ ***Seconded by: John Notor (Notor Research)***
		+ ***Discussion: None***
		+ ***Results: Chair called for Unanimous consent with no objections***
		+ ***Motion PASSED***
8. Chair asked the group if anyone has an interest in being the 802.18 Vice-Chair?
	* Needs to be a member of the SA and send a declaration of term commitment and affiliation letters to the EC.
	* Q: what are the duties?
		+ Responsibilities of WG Vice Chair are listed on Slide 7.
	* No one stood up at the meeting.

**MEETING DISCUSSIONS/ACTIONS**

1. **EU Items to Share**: The Chair noted there was not a lot to report this week regarding EU items and asked if participates had any updates
	* A participate noted there is some controversy in BRAN regarding 5 GHz; particularly around receiver sensitivity
	* EU Updates:
* CEPT – ECC SE45 - Next f2f #6 in Bonn Germany, 10 – 12 December 2018
* CEPT – ECC FM57 - Next f2f #4 in Bonn Germany, 11 – 13 December 2018
* ETSI – BRAN – next meeting #100 - 17-20 Dec. 2018, Sophia Antipolis
* ETSI - ERM - TG-11 – next meeting # 55 - 08-11 Apr 2019, Sophia Antipolis
1. **Presidential Memorandum on Developing a Sustainable Spectrum Strategy for America's Future**
* See: <https://mentor.ieee.org/802.18/dcn/18/18-18-0134-00-0000-developing-a-sustainable-spectrum-strategy-for-america-s-future.docx>
* The Chair noted the recent memo and its scope and ask for suggestions on possible 802.18 actions.
* Participant noted the memo is intended for Executive Branch agencies requesting agency feedback on a spectrum strategy
* Memo likely used to help motive buildout of 5G (both licensed/unlicensed services)
* A possible [draft] Press Release from EEE was noted [<https://mentor.ieee.org/802.18/dcn/18/18-18-0147-00-0000-ieee-802-draft-press-release-supporting-us-spectrum-strategy.docx> ]
* It was brought up that the IEEE SA already issued a statement regarding spectrum management and that any possible PR could be referred to them for consideration
* **ACTION**: Chairs will bring this topic before the EC for possible action
1. **6 GHz and single voice from IEEE 802**
* The Chair opened discussion on the need/desire for IEEE 802 to provide a “single voice” to the FCC regarding 6 GHz
* Noting the release of the FCC 6 GHz NPRM [<https://mentor.ieee.org/802.18/dcn/18/18-18-0133-02-0000-nprm-6ghz-et-18-295.docx>], it also was noted that it has yet to be officially published in the Federal Register (FR). Expectations are that possible comments may be due in January; assuming publication in the next few weeks
* From numerous discussions with various parties, the Chair noted that the intent of IEEE 802’s comments regarding the proceeding would focus on providing a standards landscape for reference by the FCC; for example:
	+ What is there now? e.g., IEEE 802.15.4, FCC Part 15.250 and 15.5xx
	+ What is coming? e.g., IEEE 802.15.4z; 802.11 several amendments coming.
* Lead by the Chair, the document containing draft comments was open for participant comments and editing
* As outlined, proposed IEEE 802 comments would contain:
	+ An Introduction
	+ Update on IEEE Technologies in 6 GHz
		- Noting the NPRM and IEEE previous filings
	+ IEEE 802.11 Standards
	+ IEEE 802.15 standards
	+ Coexistence
	+ Conclusions
* Ran out of time and r03 with mark-ups and r04, a clean version, will be posted to continue editing on Thursday.
* Meeting recessed until Thursday AM1

**Thursday, November 15th, 2018, AM1**

Chair reconvened the meeting @ 8:01 reminding participates of their continued compliance under IEEE802 rules

Chair noted that two general items are remaining plus wrap-up: 6 GHz, Guest Speaker and the wrap up.

**6 GHz and single voice from IEEE 802 [continued]**

* Discussions resumed regarding the 6 GHz NPPM starting with doc.: IEEE 802.18-18/0139r5 and the section on 802.11 standards.
* Editing continued through the 802.15 standards, band sharing and conclusion sections.
* After more discussion regarding the need for IEE 802 to achieve a “single voice” and encouragement by the Chair for participants to recognize the position and views of the various 802 Working Groups impacted by the proceeding, the group agreed on a proposed response [ <https://mentor.ieee.org/802.18/dcn/18/18-18-0139-07-0000-fcc-18-295-ieee-802-comment.docx>]
* Chair presented the Motion:
* ***Motion -Move to approve the comments in*** [***https://mentor.ieee.org/802.18/dcn/18/18-18-0139-07-0000-fcc-18-295-ieee-802-comment.docx***](https://mentor.ieee.org/802.18/dcn/18/18-18-0139-07-0000-fcc-18-295-ieee-802-comment.docx) ***to FCC’s NPRM (ET Docket No. 18-295) on Unlicensed use of the 6GHz Band. With the chair of 802.18 to have editorial privileges and send to the EC for review/approval and submission to the FCC.***
	+ ***Moved by: Peter Ecclesine (Cisco)***
	+ ***Second by: Tim Harrington (ProID)***
	+ ***Discussion: Is there a specific date? No date.***
	+ ***Results: 12 YES | 0 NO | 0 ABSTAIN***
	+ ***Motion PASSED***
1. **General Discussion Items**

Objective for remaining items is to simply expose the topic to the broader audience at the plenary.. Most items under this agenda item have been discussed in detail during previous conference calls.

* From India WPC - “no licenses shall be required under indoor and outdoor environment… 5 GHz band and UWB is approved; including the 6 GHz band: [<https://mentor.ieee.org/802.18/dcn/18/18-18-0138-00-0000-india-no-licenses-most-of-5ghz-191359.pdf> ]
* DRSC ex parte from NCTA (5.9 GHz) – group decided to hold and see what happens in the proceeding.
* Participant noted, under general updates, that Japan has open Band 9 for UWB outdoor use
	+ Chair noted the group should review the ruling and will place it on the agenda for the next meeting (conference call). The final rule is posted on mentor under 802.15
* FCC Press Release on 5.9 GHz Phase I results
	+ Participant noted that a meeting is scheduled in a few weeks regarding possible scope of Phase II. An update will be provided
* Net Neutrality – lower court ruled in favour of maintaining the “Open Internet” rules; but the ruling is temporary
* TVWS Ex parte – asking for improved rules
1. **Teleconferences**
* ***Motion: The 802.18 Chair or Vice Chair is directed to conduct, as necessary, teleconferences on Thursdays at 15:00 ET through 25 April 2019***
	+ ***Moved by: Stuart Kerry (Ruckus)***
	+ ***Seconded by: Tim Harrington (ProID)***
	+ ***Discussion - None***
	+ ***Results: Chair called for Unanimous consent with no objections***
	+ ***Motion PASSED***
1. **Straw Poll**
* Chair called for a straw poll:
* How many people would like to come back to this venue?
	+ - Yes -- 7
		- No – 4
		- Like the Social – 7
		- Disliked the Social – 0
		- Did not go to Social – 16
1. **GUEST PRESENTER**

**Mr. Masanori Kondo, Deputy Secretary General of Asia-Pacific Telecommunity (APT).**

* **Industry items under ATP review/scope**
* Policy & Regulations in Radio Communications Fields
* Spectrum Allocation
* Mid-Long-Term perspective
* Demand vs. Limited Resources
* Always there is Incumbents Users/Industry
* International/region/sub-region harmonization

*What is APT?*

* Inter-governmental organization
* 38 member countries
	+ Including CHINA, INDIA, Australia
* ~140 members
* Asia accounts for 67% of world’s population

*What is APT’s function?*

* Provide consolidated regional voice (40% of APT’s efforts)
* Promote regional ICT development (25% of APT’s efforts)
* Field of Activity
	+ Spectrum management
	+ Standardization
	+ Policy & regulations
	+ Development (including/ project implementation)
	+ Capacity Building (in each theme/area) (35% of APT efforts)

*APT’s Activities in Radio Communications*

* Undertake efforts/steps to accommodate wireless growth in region (data, mobile, complex networks)
* Four main activities
	+ APT Conference Prep for WRC
	+ Symposium (e.g., Spectrum Management and Roadmaps)
	+ APT Wireless Group (AWG)
		- Platform for ACTIVE member countries to develop spectrum strategy. Open to monitor.
		- One issue for AWG is to coordinate across smaller countries and enhance/exchange information and market needs to industry. Collective burgeoning power.
		- This is the group worth noting/watching for regional perspectives
* Capacity Building
* Participant asked about possible work in APT on 6 GHz. **Mr. Kondo** responded that 6 GHz is NOT currently on their agenda. However, he noted WRC-19 may agree to include 6 GHz as an *Agenda Item* for WRC-23
1. **Closing**
* Chair called for AOB - none
* Chair noted next meeting would be 29 November via teleconference
* Chair Adjourned the meeting on November 15, 2018 @ 9:53am

Attendance: Tuesday, 34

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| Baer | Bernd | n | Marquardt |
| Barras | David | n | 3db Access |
| Boldy | David | v | Broadcom Corporation |
| de Vegt | Rolf | v | Qualcomm Incorporated |
| Ecclesine | Peter | v | Cisco Systems, Inc. |
| Godfrey | Tim | v | Electric Power Research Institute, Inc. (EPRI) |
| Harrington | Timothy | v | Pro-ID Consulting |
| Holcomb | Jay | v | Itron Inc. |
| Holland | Oliver | n | King's College London |
| Jeffries | Timothy | v | Huawei Technologies Co. Ltd |
| Kerry | Stuart | v | OK-Brit |
| Kuerner | Thomas | v | TU Braunschweig |
| Mano | Hiroshi | n | Koden Techno Info K.K. |
| Mody | Apurva | v | BAE Systems |
| Nejatian | Alireza | n | Ericsson AB |
| Notor | John | v | Notor Research |
| Rolfe | Benjamin | n | Blind Creek Associates |
| SAUER | PETER | n | Microchip Technology, Inc. |
| Sherlock | Ian | n | Texas instruments |
| da Silva | Claudio | n | Intel Corporation |
| Fang | Yonggang | n | ZTE TX Inc |
| Fischer | Michael | n | NXP Semiconductors |
| hervieu | Lili | n | Cable Television Laboratories Inc. (CableLabs) |
| Inoue | Yasuhiko | v | Nippon Telegraph and Telephone Corporation (NTT) |
| Kishida | Akira | n | Nippon Telegraph and Telephone Corporation (NTT) |
| Lansford | James | v | Qualcomm |
| Latif | Imran | n | Quantenna Communications, Inc. |
| Lepp | James | v | BlackBerry |
| Levy | Joseph | n | InterDigital, Inc. |
| Palm | Stephen | v | Broadcom Corporation |
| Sand | Stephan | n | German Aerospace Center (DLR) |
| Sato | Naotaka | v | Sony Corporation |
| Wang | Lei | v | Huawei R&D USA |
| Yee | James | n | MediaTek Inc. |

Attendance: Thursday, 27

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| --- | --- | --- | --- |
| Baer | Bernd | n | Marquardt |
| Barras | David | n | 3db Access |
| Boldy | David | v | Broadcom Corporation |
| de Vegt | Rolf | v | Qualcomm Incorporated |
| Ecclesine | Peter | v | Cisco Systems, Inc. |
| Godfrey | Tim | v | Electric Power Research Institute, Inc. (EPRI) |
| Harrington | Timothy | v | Pro-ID Consulting |
| Holcomb | Jay | v | Itron Inc. |
| Holland | Oliver | n | King's College London |
| Jeffries | Timothy | v | Huawei Technologies Co. Ltd |
| Kerry | Stuart | v | OK-Brit |
| Kitazawa | Shoichi | n | Muroran IT |
| Knobloch | Daniel | n | BMW Group |
| Kuerner | Thomas | v | TU Braunschweig |
| Mano | Hiroshi | n | Koden Techno Info K.K. |
| Max | Sebastian | n | Ericsson AB |
| Mody | Apurva | v | BAE Systems |
| Naguib | Ayman | n | Qualcomm Incorporated |
| Nejatian | Alireza | n | Ericsson AB |
| Notor | John | v | Notor Research |
| OGUZ | Onur | n | Valeo CDA |
| Rolfe | Benjamin | n | Blind Creek Associates |
| SAUER | PETER | n | Microchip Technology, Inc. |
| Shellhammer | Stephen | v | Qualcomm Incorporated |
| Sherlock | Ian | n | Texas instruments |
| Stuebing | Gary | n | Duke Energy Corporation |
| Verso | Billy | v | DecaWave |

Note: There were others in the room for the Guest presenter.