**Meeting Minutes**

Meeting: IWG-2 (Meeting 18)

Date/Time: Wednesday, February 21, 2018 1:00-3:00 p.m. EST

Location: Conference call

Committee Members & Observers Present:

Chair: Jayne Stancavage (Intel Corporation)

Vice-Chair: Tricia Paoletta (Harris, Wiltshire & Grannis LLP)

For additional members and observers present, see attached Appendix A.

FCC Employees Present:

Michael Mullinix, Designated Federal Official (DFO) for WAC-19

Commissioner Michael O’Rielly

Dante Ibarra, Larry Olson, and Allen Yang.

Meeting Summary:

1. Approval of Agenda:

IWG-2 Chair Jayne Stancavage introduced the agenda in Document **IWG-2/063r1 (21.02.18)**.The agenda was approved.

1. FCC Reps, Opening Remarks and Introductions:

Michael Mullinix, DFO for WAC-19, confirmed his presence on the call. Other FCC representatives also confirmed their presence.

The Chair took roll call then requested that members and observers participating in the call send her and Vice-chair Tricia Paoletta an email message indicating their presence on the call.

1. Approval of minutes from previous IWG-2 meeting:

The minutes of the seventeenth meeting as contained in **IWG-2/059 (12.01.18)** were approved. The chair agreed to take the minutes of the meeting.

1. Discussion of Draft IWG-2 Preliminary Proposal:
2. Agenda Item 1.1: Jon Siverling, ARRL, introduced document **IWG-2/060 (21.02.18)** which is the same language as in the current CITEL draft IAP. Mr. Mullinix asked whether the intention was to propose no change for Region 2 only or for other Regions. Mr. Siverling confirmed that the intention was for Region 2 only: he will provide a revised version for the next meeting.
3. Agenda Item 1.13: Vice Chair Tricia Paoletta served as chair for the portion of the agenda dealing with this document. Jayne Stancavage, Intel, introduced document **IWG-2/061 (21.02.18)** regarding the 37-43.5 GHz frequency range. It was noted that the document number in the header does not match the document number. Several members expressed concerns about proposing changes for Regions 1 and 3 and that any proposal should be limited to Region 2 only while other members expressed support for global harmonization based on radio tuning ranges. A question was raised if this was going to be the only band proposed for IMT identification but the author clarified that the intent was to address agenda item 1.13 on a band by band basis. Another member raised a concern that the satellite interests have not been represented in this document. There were also questions/concerns regarding the following issues: whether this text deviated from other IMT footnotes, whether the issue of harmonization was adequately explained, and that the text regarding the feasibility of sharing by a large margin was inaccurate in some places: the author will review the text with respect to these points to see if any improvements can be made. It was also noted that there was a typo in which MHz was used instead of GHz. Other members expressed the views that this was inconsistent with spectrum frontiers which covers 37-40 GHz only, this proposal is premature as studies in Task Group 5-1 have not been completed yet, and that an associated Resolution specifying IMT parameters was needed. The author expressed the view that harmonization of tuning ranges enables flexibility for regulators and that the studies in Task Group 5-1 are nearly completed (expected to end in May). Mr. Mullinix asked interested members to email him so he could arrange a meeting to see if we can reach consensus on this proposal. If no consensus, then IWG-2 would develop a View A/ View B. Jayne Stancavage resumed as Chair.
4. AI 1.14: Kathryn Martin, Access Partnership, introduced Document **IWG-2/064 (21.02.18).** She noted thatsome track changes were inadvertently accepted in this version so some edits are not showing as revised. It was clarified that approval of this document was not being sought at today’s meeting. Some members raised concerns that this was more of an outline than a proposal and that more details are needed as it does not show proposed changes to the Radio Regulations and associated Resolutions. There were also questions raised regarding whether any directionality would be specified, if any changes to Resolution 122 will be proposed, and whether it will focus on some specific frequencies. The author responded that they are not including 6 GHz since they are not focusing on that band. It was also noted that some technical details are still ongoing in ITU-R Working Party 5C. One typo “seek a fixed allocation” was also noted. The author will provide a new revision for discussion at the next meeting.
5. AI 1.15: Michael Marcus, IEEE SA, introduced document **IWG**-**2/048r2** (**21**.**02**.**18)** addressing the bands identified for RAS. One member expressed the view that the 5.THZ footnote should be limited to 450 GHz not 1000 GHz. Some members raised questions including why the proposed bands are different from those in the current draft CPM text in Working Party 1A and the status of the current “identifications”. There was also a discussion around the possibility of sharing. Mr. Mullinix will contact the ITU regarding the question about a possible description of bands that are identified but not allocated.
6. Issue 9.1.1: Brennan Price, Echostar, introduced document **IWG-2/062 (21.02.18).** Several members expressed the view that the proposal was premature based upon current status of the studies. There was a brief discussion regarding interference scenario A1 and the methodologies used in the working document towards PDN Report.Further discussions will occur.
7. Update on Current Status:

Mr. Mullinix, FCC, noted that the FCC and NTIA are still trying to reconcile a proposal on Issue 9.1.5. Dr. Brian Patten, NTIA, observed that RCS will be meeting next Thursday.

1. Next meetings:

IWG-2

Date: Friday, March 9, 2018

Time: 1:00 p.m. ET

Teleconference Only: 888-858-2144 or 646-746-3008

Participant Code: 10271972

IWG-2

Date: Thursday, March 22, 2018

Time: 1:00 p.m. ET

Teleconference Only: 888-858-2144 or 646-746-3008

Participant Code: 10271972

The next WAC meeting will tentatively be held on April 23, 2018 at 11 am EDT at the FCC.

Documents Distributed:

IWG-2/048r2 AI 1.15 draft proposal (Revision 2)

IWG-2/059 Meeting 17 minutes

IWG-2/060 AI 1.1 draft proposal

IWG-2/061 AI 1.13 draft proposal

IWG-2/062 Issue 9.1.1 draft proposal

IWG-2/063 Meeting 18 agenda

IWG-2/064 AI 1.14 draft proposal

Public Participation Statement:

Meeting IWG-2/18 (21.02.2018) was open to the public ([DA 18-33](https://www.fcc.gov/document/wrc-advisory-committee-meetings-iwg-2)) and had 27 members, 13 observers, 2 IWG-2 officials and 5 FCC employees in attendance.

Author:

Jayne Stancavage, IWG-2 Chair, prepared these minutes.

**Appendix A: Additional Attendees at February 21, 2018** **meeting of IWG-2**

**Members**

| **Organization** | **Member Name** |
| --- | --- |
| Access Partnership, LLC | Kathryn Mrtin |
| Aerospace and Flight Test Radio Coordinating Council | William K. Keane |
| ARRL | Jon Siverling |
| AAR | Timothy Strafford |
| AT&T | Stephen M. Blust |
| CBS Corporation | Dr. Charles Einolf, Jr. |
| Cisco Systems, Inc. | Dave Case |
| EchoStar Corporation | Brennan Price |
| Ericsson | Mark Racek |
| GSMA | Dr. Veena Rawat |
| IEEE-USA | Michael J. Marcus |
| Intelsat | Alexander Gerdenitsch |
| Jansky-Barmat Telecommunications Inc. | Donald M. Jansky |
| Lockheed Martin | Scott Kotler |
| Microsoft Corporation | Michael Daum |
| National Association of Broadcasters | Robert D. Weller |
| National Cable & Telecommunications Association | Andy Scott |
| New Wave Spectrum Partners LLC | Stephen Baruch |
| Omnispace | Julie Zoller |
| Peraton | Christine Dilapi |
| Samsung Electronics USA | Dr. Robert Kubik |
| SES Americom | Philippe Secher |
| TMG Inc. | Geraldo Neto |
| Verizon | Leslie J. Martinkovics |
| ViaSat, Inc. | Chris Hofer |
| Virginia Diodes | Dr. Gerhard S. Schoenthal |
| Special Government Employee | Dr. Charles Rush |

**Observers**

1. Mike Biggs, FAA
2. Bob Denny, NTIA
3. Ed Ehrlich, InterDigital Communications, Inc.
4. David W. Eierman, Motorola Solutions
5. Shelli Rose Haskins, ACES
6. Tim Jeffries, Futurewei
7. Bruce Lamb, NTIA
8. Giadira Leon, S3 for AFSMO
9. Madi Lottenbach, Wiley Rein LLP
10. Jen Oberhausen, CTIA
11. Brian Patten, NTIA
12. Amy Sanders, NTIA
13. Ashley Zauderer, NSF