

Meeting Minutes

Meeting: WAC-15, Informal Working Group 2: Terrestrial Services (IWG-2)

Date/Time: April 29, 2015/ 1:30 p.m. – 4:30 p.m. (EDT)

Location: Teleconference only

Participants: See Attachment 1.

Meeting Summary:

1) Opening Remarks and Introductions:

Charles Rush/TMG, Chair of IWG-2, convened the meeting at 1:30 pm. He asked that participants send an email to Vice-Chair Jayne Stancavage/Intel indicating their participation.

2) Approval of Agenda:

The agenda in Document **IWG-2/073 (20.04.15)** was approved, noting that we will address issue 4.a.5 regarding 1427-1518 MHz first due to a scheduling conflict.

3) Minutes:

- a. Appointment of minute taker for the meeting: Ms. Stancavage was appointed to take the minutes of the meeting.
- b. Approval of Minutes from IWG-2 April 20, 2015 Meeting: The minutes of the last meeting as contained in Document **IWG-2/072r1 (22.04.15)** were approved.

4) Consideration of Draft IWG-2 Proposals:

Prior to consideration of item 4, Ms. Stancavage provided an overview of a template to be used for documents which will provide “View A/View B” to the WAC. Documents are due to the FCC on May 11th so IWG-2 deadline will be May 11th at noon.

a. WRC-15 Agenda Item 1.1; MBB/IMT (Res. 233)

- 1. 1300-1400 MHz
 - a) Document **IWG-2/065 (08.04.15)**
 - b) Document **IWG-2/065r2 (29.04.15)**
- 2. 2700-2900 MHz
 - a) Document **IWG-2/066 (08.04.15)**
 - b) Document **IWG-2/066r2 (29.04.15)**
- 3. 4400-4990 MHz
 - a) Document **IWG-2/067 (08.04.15)**
 - b) Document **IWG-2/067r2 (29.04.15)**
- 4. 5925-6425 MHz
 - a) Document **IWG-2/064 (08.04.15)**
 - b) Document **IWG-2/064r2 (29.04.15)**

During the introduction of documents, it was noted that the group was unable to reach consensus on a single proposal for 1300-1400 MHz, 2700-2900 MHz, 4400-4990 MHz, and 5925-6425 MHz frequency bands respectively and would need to provide a View A/View B document for each band to the WAC. Regarding document **IWG-2/066r2**, the text in the reason will need to be revised to clarify that it addresses co-channel sharing in the same geographic area. The meeting agreed that Steve Baruch/New Wave Spectrum Partners would serve as lead coordinator for those advocating for View A, supporting the documents IWG-2/065, 066, 067, and 064 respectively: and Ms. Stancavage would serve as lead coordinator for those advocating View B supporting the documents IWG-2/065r2,066r2, 067r2, and 064r2. WAC members who are interested in joining View A or View B for any of the above bands should contact Mr. Baruch (View A) or Ms. Stancavage (View B).

5. 1427-1518 MHz

a) Document **WAC/109 (20.05.15)**

b) Document **IWG-2/071r1 (29.04.15)**

Ken Keane/Duane Morris introduced “View A” which supports the NTIA proposal for mandatory limits as contained in WAC/109. The View A proponents concerns include the delicate consensus on RN 5.343 in the IAP for AI 1.1 1427-1518 MHz and the need for mandatory limits due to the global nature of EESS. Dr. Rush introduced View B which opposes mandatory OOB limits. The View B proponents concerns include a Report being used as the basis for mandatory OOB limits in the Radio Regulations, as well as the deployment values being considered in the studies. Regarding View B document IWG-2/071r1, the parenthetical regarding user equipment will be deleted. WAC members who are interested in joining View A or View B for any of the above bands should contact Mr. Keane (View A) or Dr. Rush (View B).

b.) WRC-15 Agenda Item 10: Future Agenda Items

1. Broadband applications using HAPS- Document **IWG-2/063r2 (29.04.15)**

Tricia Paoletta/Harris,Wiltshire and Grannis introduced document IWG-2/063r2. Ms. Paoletta reported that two offline discussions had been held: and she was hopeful that a single consensus view could occur, if more discussion is held. She noted that the number “3” was missing from “resolves 3”. Wayne Whyte/NASA observed that the 31-31.3 GHz band has several important footnotes that might be appropriately referenced in a “noting” or “considering”. Chris Hofer/ViaSat referred to the Japanese HAPS proposal to WRC-03 as a possible model for focusing on specific bands/frequency ranges. The meeting agreed to allow offline discussions to continue and consider approval of the output document via email. Ms. Paoletta was identified as the lead for this offline discussion. Results of the offline discussion will be distributed to the IWG-2 via the email reflector for consideration and approval by May 8th. If no consensus is reached, IWG-2 will provide a View A /View B on this proposal.

2. IMT above 6 GHz- Document **IWG-2/069 (20.04.15)**

Ms. Stancavage noted that the document had been introduced at the last meeting. She further reported that offline discussion on the document established that no consensus can be achieved in IWG-2. IWG-2 members who are interested in joining View A (supporting IWG-2/069) or View B (opposing IWG-2/069) should contact Ms. Stancavage (View A) or Mr. Baruch and Damon Ladson/Harris Wiltshire & Grannis (View B).

5. **Status of IWG-2 Agenda Items**

The Chair noted that the status of IWG-2 Agenda Items has been provided in the agenda. Members were asked to notify the Vice-Chair as soon as possible if any errors are identified.

6. **IWG-2 Documents for May 20 WAC meeting**

The group was notified that May 11th is the deadline for IWG-2 documents to be submitted to the FCC for the May 20th WAC meeting.

7. **Any Other Business**

Amy Sanders/Alcatel-Lucent thanked the Chair and Vice Chair for their work. The Chair thanked the IWG-2 members and Vice Chair.

8. **Next meeting**

This was the final meeting of IWG-2.

9. **Adjournment:**

The meeting was adjourned at 2:42 pm.

Public Participation Statement: This meeting was open to the public as announced by Public Notice, [DA15-480](#) (April 22, 2015).

Attachment 1: List of Attendees April 29, 2015 meeting

Reza Arefi	Intel Corp.
Steve Baruch	New Wave Spectrum Partners LLC
Winston Caldwell	21 st Century Fox
Craig Cuttner	Time Warner
Pascale Dumit	SES
Bob Denny	NTIA
Donald Everist	Cohen, Dippell and Everist, P.C.
Andy Feltman	Exelis
Bruce Franca	National Association of Broadcasters
Tom Hayden	TLH Consulting
Chris Hofer	Viasat
Ken Keane	Duane Morris
Scott Kotler	Lockheed Martin Corp.
Damon Ladson	Harris Wiltshire Grannis
Michael Mullinix	FCC
Tricia Paoletta	Harris Wiltshire Grannis for Google & NCTA
Jim Ragsdale	Ericsson
Veena Rawat	GSMA
Alexander Roytblat	FCC
Charlie Rush	TMG, Inc.
Amy Sanders	Alcatel-Lucent
Jayne Stancavage	Intel Corp.
Wayne Whyte	NASA