

Meeting Minutes

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

Date/Time: February 21, 2013/1:00 p.m. - 3:00 p.m. (EST)

Location: Teleconference only

Participants: See attachment 1.

Meeting Summary:

- 1) **Opening Remarks and Introductions:** The meeting was called to order at 1:00 p.m. Participants were welcomed by IWG-2 Chair Charles Rush. Instead of a roll call, the Chair requested that participants send an e-mail to the Chair and Vice-Chair indicating their participation in the meeting.
- 2) **Approval of Agenda:** The chair introduced the agenda in Document **IWG-2/021r1 (20.02.13)**. The agenda was approved.
- 3) **Minutes:**
 - a. **Appointment of minute taker for the meeting:** Ken Keane was appointed to take the minutes for the meeting.
 - b. **Approval of Minutes from IWG-2 December 10, 2012 Meeting:** The minutes of the last meeting as contained in Document **IWG-2/020r1 (17.12.12)** were approved by acclamation.
- 4) **Discussion and Approval of Draft IWG-2 Preliminary Views Documents**
 - a. **WRC-15 Agenda Item 1.1; MBB/IMT (Res. 233)**
 1. **1435-1525 MHz - Document IWG-2/012 Rev.1 (20.02.13):** Mr. Keane introduced the Document. He noted that the revisions incorporated the U.S. views agreed to by the U.S. delegation to the November 2012 meeting of Joint Task Group 4-5-6-7. Jayne Stancavage suggested that certain portions of the text might better be set forth in the Background section and that other adjustments be made of an editorial nature in order to conform more closely to a preliminary view document. Veena Rawat inquired about the use of the band 1435-1525 MHz for aeronautical mobile telemetry (AMT) purposes in other CITELE administrations. Mr. Rush inquired about the reference to Recommendation ITU-R M.1459 as the standard for AMT sharing studies, and Mr. Keane offered to include text on that point. Mr. Keane agreed to circulate a revision. Mr. Rush called attention to the time frame for advancing documents to the WAC and it was agreed that the Document would be given provisional approval pending circulation of Mr. Keane's revisions. Absent objection to those revisions by the close of business Monday, February 25th, the Document would be deemed to have final approval.
 2. **1695-1710 MHz – Document IWG-2/022 (20.02.13):** Charles Glass presented Document 22. He noted that the spectrum in question was allocated for Government use,

and that the band 1695-1710 MHz had been identified for mobile broadband as part of the CSMAC process. The Document's source is the Radio Conference Subcommittee of IRAC ("RCS"). Kim Baum urged that the Document carry an NTIA identification. Jayne Stancavage concurred that IWG-2 should clearly indicate the source of the Document and its views concerning same. Ms. Stancavage noted further that T-Mobile had wanted to add the phrase "or other spectrum techniques" to geographic separation as a sharing technique. Participants also focused on the phrase "initial studies." Mr. Rush and Mr. Glass discussed the process for effecting any changes to the Document given its origin in the RCS. Alex Roytblat advised that what the FCC was looking for was either IWG-2 acceptance of the proposal, or redlines with recommended changes for the WAC. Jim Ragsdale proposed adding a sentence to the effect that "additional studies would support other sharing techniques." Rob Kubik referenced that the CSMAC Working Group 1 report approved this date was a potential source for additional text. Mr. Rush noted that 1695-1700 MHz is not primary mobile, but that 1700-1710 MHz is; in Mr. Rush's view, the Document seeks a primary mobile allocation for 1695-1700 MHz, and identification for broadband wireless including IMT for 1695-1710 MHz. The consensus was to add the edits referenced above. The same provisional approval process was adopted for this Document as referenced above for Document 12.

3. **5350-5470 MHz – Document IWG2/023 (20.02.13):** Ms. Stancavage introduced Document 23 from Intel. It proposes studies towards possible changes to the Radio Regulations and Resolution 229 for wireless access systems including RLANs. There was much discussion regarding the correct phrasing and use for the term RLANs within the context of Resolution 229, as well as the fact that 5350-5470 MHz is located between two bands allocated to the mobile service but restricted by Resolution 229. Wayne Whyte noted that NASA would have difficulty with the last sentence of the third bullet regarding the efficacy of DFS. The Document was approved.
4. **3400-4200 MHz - Document IWG-2/013 (17.09.12):** Mr. Abdolmajid Khalilzadeh presented the Document referencing the differences between satellite and mobile interests. He and Kim Baum urged that mobile proponents propose edits as a way to make progress. Mr. Ragsdale observed that there was a fundamental difference of view between the two groups. Amy Sanders noted that she had suggested deletion of the second sentence (the one excluding the band from consideration) at the last meeting, but that that had not been accepted. It was agreed that Mr. Ragsdale would circulate comments. The Document will remain pending awaiting revisions from mobile proponents.
5. **General statement- Document IWG-2/016 (09.10.12):** Don Jansky introduced the Document. There was discussion regarding whether the Document should still be moved forward or if it had been overtaken by events. The consensus was that it would be left as-is as a guide for IWG-2 and not forwarded to the WAC.

5) Update on Progress to Date

a. **WRC-15 Agenda Items Assigned to IWG-2:** There were no substantive reports regarding other Agenda Items. Amy Sanders inquired whether the United States should develop a view for the use of bands above 6 GHz for IMT. Mr. Rush invited anyone interested to contribute to this task.

b. **Report(s) From International Meetings:** Charles Glass reported that Darlene Drazenovich had attended a meeting of CEPT's Conference Preparatory Group and that discussion of Agenda Item 1.1 consumed an entire day of the three-day session. Mr. Roytblatt noted that there was little consensus within CEPT on IMT candidate bands except that 1695-1710 MHz was not a good candidate. Ms. Sanders reported relative to Agenda Item 1.3 that CEPT is of the view that 2x10 MHz is needed for PPDR.

- 6) **Development of Draft Proposals:** No one is planning to develop draft proposals (as distinct from preliminary views) at this point.
- 7) **Any Other Business:** None.
- 8) **Next meeting:** June 12, 2013 1:00 – 3:00 pm EST.
- 9) **Adjournment:** The meeting was adjourned at 2:46 pm.

Public Participation Statement: This meeting was open to the public as announced by Public Notice, [DA 13-36](#) (January 14, 2013).

Attachment 1: List of Attendees Feb. 21, 2013 meeting

Reza Arefi	Intel Corp.
Steve Baruch	Lerman Senter
Kim Baum	SES
Stephen Blust	AT&T
Dave Case	Cisco
Diane Cornell	Inmarsat
Pascale Dumit	ITT Exelis for DoD
Kyle Entz	Sprint Nextel Corporation
Glenn Feldhake	NASA
Alexander Gerdenitsch	Motorola Mobility Inc.
Charles Glass	NTIA
Neal Goldberg	National Cable & Telecommunications Association
Dante Ibarra	FCC
Don Jansky	Jansky-Barmat Telecommunications Inc.
Abdolmajid Khalilzadeh	Intelsat
Ken Keane	Duane Morris for Aerospace & Flight Test Radio Coord. Council
Kim Kolb	Boeing
Rob Kubik	Samsung
Damon Ladson	Wiltshire & Grannis
Brandon Mitchell	NTIA
Susan Mort	Time Warner
Michael Mullinix	FCC
Stacy Pies	Microsoft
Brennan Price	ARRL
Jim Ragsdale	Ericsson
Veena Rawat	RIM
Edward Rocksvold	Dept. of Defense
Bill Rummler	Fixed Wireless Communications Coalition
Alex Roytblat	FCC
Charlie Rush	TMG Telecom
Amy Sanders	Alcatel-Lucent
Cathy Seidel	Motorola Solutions
Jayne Stancavage	Intel Corp.
Bill Tranavitch	ITT Exelis
Thomas S. Tycz	Goldberg Godles Wiener and Wright for Iridium
Milan Vuckovic	Verizon
Wayne Whyte	NASA
Joanne Wilson	ARTS for NASA