

Meeting Minutes

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

Date/Time: June 12, 2013/1:00 p.m. - 3:00 p.m. (EDT)

Location: Teleconference only

Participants: See Attachment 1.

Meeting Summary:

- 1) **Opening Remarks and Introductions:** Charles Rush, Chair of IWG-2, convened the meeting at 1:01 pm. Jayne Stancavage, Vice Chair of IWG-2, asked all participants to send an email to her indicating their participation.
- 2) **Approval of Agenda:** The chair introduced the agenda in Document **IWG-2/025 (10.06.13)**. The agenda was approved with one change, i.e. the addition of item 6.a.1 on the Draft Proposal for Agenda Item 1.1 regarding 470-698 MHz.
- 3) **Minutes:**
 - a. **Appointment of minute taker for the meeting:** Amy L. Sanders was appointed to take the minutes for the meeting.
 - b. **Approval of Minutes from IWG-2 February 21, 2013 Meeting:** The minutes of the last meeting as contained in Document **IWG-2/024 (26.02.13)** were approved by acclamation.
- 4) **Report(s) from International Meetings**
 - a. **CITEL PCC.II** – Alex Roytblat of the FCC summarized recent developments on WRC-15 Agenda Items 1.1 and 1.2. The US Preliminary View (PV) on 470-698 MHz under Agenda Item 1.1 was supported, with minor modifications, by Canada and Mexico. Columbia also indicated its support for a mobile allocation above 512 MHz. Brazil indicated they preferred not to make further allocations to the mobile service in the UHF bands. The US Preliminary View on 1695-1710 MHz under Agenda Item 1.1 was supported by Canada and Mexico. Canada also supported the US Preliminary View on GPS frequencies, i.e. that no allocations be made in those frequencies. Brazil, Canada, Mexico, and other proposed views on 1.4-1.5 GHz. The US Preliminary View on that topic was not supported. On Agenda Item 1.2, Canada supported the US Preliminary View.
 - b. **WP5A** – Dante Ibarra of the FCC summarized developments at the recent ITU-R Working Party 5A meeting. On Agenda Item 1.1, WP 5A developed a Liaison Statement to Joint Task Group 4-5-6-7 on spectrum requirements for RLANs as well as suitable frequency ranges. The ranges 5350-5470 MHz and 5725-5850 MHz were considered suitable frequency ranges. The spectrum requirement identified was 880 MHz in the 5 GHz frequency range. On Agenda Item 1.3, WP 5A made slow

progress on the continued development of CPM text on Broadband Public Protection and Disaster Relief (PPDR). Most of the Agenda Item 1.3 work focused on a new report on the radiocommunication requirements for broadband PPDR and on the revision of Report ITU-R M.2033. On Agenda Item 1.4, some progress was made on the supporting reports and CPM text. A draft new Report on amateur service characteristics relevant to WRC-15 Agenda Item 1.4 was sent to Study Group 5 for consideration in November. Brennan Price provided additional detail on the developments on AI 1.4 in WP 5A.

- c. **Other** – Charles Rush reported on developments in the Study Group 6 block meetings. Five Liaison Statements were sent by SG 6 to JTG 4-5-6-7, four of which addressed Agenda Item 1.2. The Liaison Statement on Agenda Item 1.1 (Document 4567/135) was called to the IWG-2 participants’ attention.

Charles Glass raised an issue that had come up in Working Party 5C about considering the bands above 6 GHz under Agenda Item 1.1. He asked if IWG-2 would be addressing that issue. There is currently no Preliminary View or Proposal on the topic. Amy L. Sanders had raised the issue in the previous meeting but, there had been no support for developing a PV. Damon Ladson indicated that many folks were following the issue; but, that it may be premature to develop a Preliminary View at this time.

5) Discussion and Approval of Draft IWG-2 Preliminary Views Documents

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

1. 3400-4200 MHz - Document IWG-2/013 (17.09.12)

Charles Rush summarized the status from the previous meeting. However, no text or revision has been circulated to the IWG-2 reflector. Abdolmajid Khalilzadeh clarified that text was sent to an offline drafting group. However, no agreement had been reached, so therefore, no agreed text was circulated to the IWG-2 distribution list. Dr. Rush asked the meeting’s view on how to proceed. Kim Baum indicated that the intervening ITU-R Working Party meetings had slowed progress and suggested that a teleconference might be helpful. Ms. Baum indicated that she thought consensus on a Preliminary View was possible. Jayne Stancavage indicated she was willing to participate in discussions, but was skeptical as to whether or not consensus could be achieved. Dr. Rush suggested it might be possible to skip the PV process and move to the development of a Proposal, which would allow for inclusion of alternative proposals. Ms. Baum proposed that work on the PV continue for another round. The meeting agreed that the parties would continue offline discussions and report back.

Dr. Rush summarized that there was no reconciled text on US PV Agenda Item 1.3 or 1.4. Mr. Roytblat confirmed that the only approved US PVs were on the Advisory Committee for the 2015 World Radiocommunication Conference ([WAC website](#)). Mr. Roytblat indicated his view that the IWG was running out of time for Preliminary Views and suggested the work focus on development of Proposals.

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6) **Consideration of Draft Proposals**

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

1. 470-698 MHz – - Document **IWG-2/027 (12.06.13)**

When consideration of this document was added to the Agenda, the meeting agreed that it would be introduced and discussed; but no action would be taken at this meeting to allow participants to consider it. Mr. Roytblat introduced the document, which he indicated was consistent with the approved PV: it proposes a primary mobile allocation and identification for IMT in 470-698 MHz as well as associated changes to the Radio Regulations. Abdolmajid Khalilzadeh raised questions regarding the statistics in Background regarding the increase in number of subscriptions as well as the text on the reliance versus the use of broadcast television. Mr. Roytblat indicated that he was offering the draft proposal to start the discussion and would yield the document to IWG-2 for any further development. Ms. Baum raised a procedural question regarding whether the FCC was authorized to submit contributions to the IWG. Mr. Roytblat explained that FCC's solicitation of the Committee's views is consistent with its charter but that it would be inappropriate for other USG agencies to offer proposals. He surrendered all ownership of the document to IWG-2. Diane Cornell suggested that the members of the IWG could now take the draft proposal and make it an IWG document. Charles Einolf indicated that he supported Mr. Khalilzadeh's concerns. Amy L. Sanders offered to 'adopt' the proposal and work it forward in the process. Ms. Baum indicated that she would follow up offline on the procedural question. Mr. Einolf indicated he objected to the document being considered. There were no other objections to the document being considered. The meeting agreed to consider the document with Ms. Sanders coordinating the further development of the proposal.

Jayne Stancavage indicated that she expected to bring a draft proposal(s) on 5 GHz spectrum under Agenda Item 1.1 to the next meeting of IWG-2.

Ms. Sanders indicated that she expected to bring a draft proposal on Agenda Item 1.3 to the next meeting of IWG-2.

7) **Update on Progress to Date**

a. Agenda Item 1.1:

With regard to the reconciled US PV on the 1435-1525MHz "L band", Ken Keane indicated that he was still considering the appropriate timing for the development a draft proposal, but that a draft proposal would be forthcoming.

With regard to the 1164-1215 MHz, 1215-1300 MHz, and 1559-1610 MHz "RNSS/GPS band", Steve Baruch indicated he felt it was premature to develop a proposal at this time. He thought it advisable to wait until the conclusion of the Joint Task Group 4-5-6-7 meeting in July.

b. Agenda Item 1.2 – Dr. Rush will develop a draft proposal for the next meeting in line with the US PV.

- c. Agenda Item 1.3 – There is a WAC-approved Preliminary View; but there is, as yet, no reconciled US PV. Ms. Sanders indicated she was considering developing a draft proposal. Mr. Glass indicated that development of a Proposal on AI1.3 might be possible as the sticking point on the PV was a ‘scope issue’, which might not be relevant in the Proposal.
 - d. Agenda Item 1.4 – There is a WAC-approved Preliminary View; but there is, as yet, no reconciled US PV. Since the WAC approved the PV, the amateur group has revised its view on 5 MHz. Mr. Price is considering proposing a revision to the PV based on this new position, which may help the reconciliation process. He is also considering moving to the Proposal phase. He expects to have either a revised PV or draft Proposal for the next meeting.
- 8) **Any Other Business:** Jayne Stancavage, Vice Chair of IWG-2, reminded participants to send her an email, responding to the email announcement of the meeting, indicating their participation in this meeting.
- 9) **Next meeting:** Charles Rush summarized the work plan as agreed on the call, noted the WAC meeting on September 19th, and asked if the group could meet again before the end of June. After some discussion, the meeting agreed that the next meetings would be at 2 pm EDT on August 27th and September 9th.
- 10) **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 13-1094](#) (May 16, 2013).

Field Code Changed

Attachment 1: List of Attendees June 12, 2013 meeting

Steve Baruch	Lerman Senter
Kim Baum	SES
Mike Biggs	FAA
Scott Billquist	World Radiocommunication Report
Stephen Blust	AT&T
Diane Cornell	Inmarsat
Robert Dockemeyer	Delphi
Pascale Dumit	SES
Charles Einolf	CBS Broadcasting Inc.
Andy Feltman	Exelis for DoD
Kyle Entz	Sprint Nextel Corporation
Alexander Gerdenitsch	Motorola Mobility Inc.
Charles Glass	NTIA
Tom Hayden	The Aerospace Corporation
Dante Ibarra	FCC
Dan Jablonski	AFTRCC
Timothy Jeffries	Futurewei Technologies, Inc.
Abdolmajid Khalilzadeh	Intelsat
Ken Keane	Duane Morris for Aerospace & Flight Test Radio Coord. Council
Kim Kolb	Boeing
Damon Ladson	Wiltshire & Grannis
Peter McElligott	Wiltshire & Grannis for Google and NCTA
Brandon Mitchell	NTIA
Michael Mullinix	FCC
Tricia Paoletta	Wiltshire & Grannis for Google and NCTA
Brennan Price	ARRL
Edward Rocksvold	Dept. of Defense
Alex Roytblat	FCC
Bill Rummler	Fixed Wireless Communications Coalition
Charlie Rush	TMG Telecom
Amy L. Sanders	Alcatel-Lucent
Jayne Stancavage	Intel Corp.
Milan Vuckovic	Verizon
Stephen Ward	MMI
Wayne Whyte	NASA