

**Meeting Minutes**

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

**Date/Time:** January 16, 2014/ 9:30 a.m. - 1:00 p.m. (EST)

**Location:** FCC, 445 12th Street, SW, First Floor, Room 1-B516 & Teleconference

**Participants:** See Attachment 1.

**Meeting Summary:**

- 1) **Opening Remarks and Introductions:** Charles Rush, Chair of IWG-2, convened the meeting at 9:33 am. Dr. Rush asked all participants to send an email Vice-Chair Jayne Stancavage indicating their participation.
- 2) **Approval of Agenda:** The chair introduced the agenda in Document **IWG-2/042r1 (16.01.14)**. The agenda was approved. A revision (document **IWG-2/042r2**) was circulated to reflect that this was the 11<sup>th</sup> meeting of IWG-2, not the 10<sup>th</sup> meeting.
- 3) **Minutes:**
  - a. **Appointment of minute taker for the meeting:** Dr. Rush/TMG appointed Jayne Stancavage/Intel to take minutes for the meeting.
  - b. **Approval of Minutes from IWG-2 January 6, 2013 Meeting:** The minutes of the last meeting as contained in Document **IWG-2/040 (13.01.14)** were discussed. A participant noted that during the last meeting, the three versions of **IWG-029** were to be rationalized during an offline conversation. The minutes in **IWG-2/040** will be updated accordingly. The minutes were then approved.
- 4) **Consideration of Draft IWG-2 Proposals:**
  - a. **WRC-15 Agenda Item 1.1; MBB/IMT (Res. 233)**
    1. 470-694/698 MHz:
      - Document **IWG-2/041 (15.01.04)**
      - Document **IWG-2/027r2 (09.09.13)**
      - Document **IWG-2/036 (06.12.13)**

Bruce Franca/NAB introduced document IWG-2/041. A discussion ensued regarding whether IWG-2 needed more time to consider the issue with some participants requesting additional time while others advocated for consideration at the upcoming WAC meeting on January 27<sup>th</sup>, given the discussions within CITEL. Jayne Stancavage/Intel noted that document IWG-2/041 was a compromise document with one primary area where agreement could not be reached between the parties. She suggested that the group address the issue of characterizing sharing studies first as this was the main outstanding issue. Lengthy discussions ensued and compromise text was suggested. The Chair suggested we address the other items on the agenda then return to this issue.

After the remaining items on the agenda were addressed, the meeting returned to the topic of 470-698 MHz. As the discussion resumed, one participant noted that they would object to document IWG-2/041 going forward at this time and noted that there was an opportunity to continue discussions in the future.

The Chair stated that, consistent with prior discussions on this topic, IWG-2 would deliver a “view A” and “view B” to the WAC.

2. 1435-1525 MHz:

Document **IWG-2/034r2 (13.01.14)**

Document **WAC/058(27.01.14)**

Document IWG-2/034r2 had been previously introduced. A brief discussion on the 2<sup>nd</sup> sentence in the background regarding “future proposals” ensued and the group decided to strike this sentence. The document was approved.

Document WAC/058 had been previously introduced. The document was not considered again as IWG-2 has developed its own draft proposal on this matter.

3. 5350-5470 MHz- Document **IWG-2/035 (06.12.13)**

Document IWG-2/035 had been previously introduced. A participant requested that the following be noted in the minutes:

"Some participants of IWG-2 (SES, Inmarsat and Intelsat) noted that this proposal does not define the associated technical provisions to ensure protection of existing services, which in this case are all Federal users under NTIA's purview. Since there are no co-primary non-Federal services and no directly affected stakeholder (e.g., manufacturer) currently opposes this proposal, we are not opposing the WAC's approval today of this proposal as drafted. However, we are very concerned about the WAC, FCC, or the US moving forward on proposals that do not, as the bare minimum, define the necessary associated technical constraints. Accordingly, we wish to state our position that we do not view moving forward on this proposal under these conditions as having set a precedence for the future work/contribution of the WAC and the FCC."

The document was approved.

4. Above 6 GHz- Document **IWG-2/029r1 (13.01.14)**

Pascale Dumit/SES introduced the document. During the discussion of the document, some members wished to move forward with the proposal while others advocated that this form the basis of a position. A participant requested that the following be noted in the minutes:

“AT&T objects in IWG-2 (and would similarly object in the WAC) to Document IWG-2\_029r1 or the views expressed therein going forward as a United States proposal.”

The proponents agreed to table the document for further consideration in the future.

b. **WRC-15 Agenda Item 1.4; amateur (Res. 649)**

1. Draft Proposal- Document **IWG-2/039 (06.01.14)**

Document IWG-2/039 had been introduced previously. The document was approved.

c. **WRC-15 Agenda Item 10; future conferences**

1. 460-470 MHz- Document **WAC/058 (27.01.14)**

It was noted that the primary reason stated for requesting the upgrade from secondary to primary allocation was due to the investment in the band. Some IWG-2 participants wanted more time to consider the proposal.

IWG-2/043r1 (03.06.14)

**5. Update from IWG-2 on progress since last WAC**

The Chair noted that the agenda provided an update on IWG-2 progress and requested that members notify him and Jayne Stancavage with any errors.

**6. Any Other Business**

One participant noted that documents IWG-02/029 and IWG-2/029r1 are substantially different. The meeting agreed to provide document IWG-2/029r1 with a new document number.

**7. Next meeting**

No meeting was scheduled.

8. **Adjournment:** The meeting was adjourned at 1:34 pm.

**Public Participation Statement:** This meeting was open to the public as announced by Public Notice, [DA 13-2455](#) (December 23, 2013).

Field Code Changed

**Attachment 1: List of Attendees January 16, 2014 meeting**

Pat Amodio	EchoStar Satellite Services L.L.C.
Reza Arefi	Intel Corp.
Kim Baum	SES
Mike Biggs	FAA
Stephen Blust	AT&T
Phil Bonomo	Lerman Senter for Lockheed Martin
Winston Caldwell	Fox
Lynn Claudi	NAB
Craig Cuttner	Time-Warner (HBO)
Christine Devine	Wiltshire Grannis for Google
Robert Dockemeyer	Delphi
Pascale Dumit	SES
Charles Einolf	CBS Broadcasting Inc.
Kyle Entz	Sprint Corp
Glenn Feldhake	NASA
Carlos Flores	FCC
Bruce Franca	NAB
Alexander Gerdenitsch	Motorola Mobility
Humberto Henriques	Telecomm Strategies for GPS Innovation Alliance
Chris Hofer	ViaSat
Ken Keane	Duane Morris for Aerospace & Flight Test Radio Coord. Council
Abdolmajid Khalilzadeh	Intelsat
Rob Kubik	Samsung
Damon Ladson	Wiltshire & Grannis
Leslie Martinkovics	Verizon
Prakash Moorut	NSN
Michael Mullinix	FCC
Larry Olson	FCC
Tricia Paoletta	Wiltshire Grannis for Google and NCTA
Danielle Pineres	Wiltshire Grannis for Google and NCTA
Brennan Price	ARRL
Jim Ragsdale	Ericsson
Alex Roytblat	FCC
Charlie Rush	TMG
Amy Sanders	Alcatel-Lucent
Juyeon Song	Samsung
Jayne Stancavage	Intel Corp.
Bill Tranavitch	Exelis for DoD
Milan Vuckovic	Verizon
Stephen Ward	MMI
Wayne Whyte	NASA
Joanne Wilson	ARTS for NASA