

Meeting Minutes

Meeting: WAC-15, IWG-3

Date/Time: 16 August 2012

Location: FCC, 445 Twelfth Street, S.W., Room 4B-516

Participants (in person and telephonic): See attached

FCC Employees Present: Joe Hill, Dante Ibarra, Mike Mullinix, Chip Flemming

Meeting Summary:

1. Introductions: The Chair welcomed all participants to the first meeting WAC IWG 3. Participants in the room introduced themselves followed by participants on the phone.
2. Approval of the Agenda: The Chair provided an overview of the Agenda and introduced the Minutes Template document (Doc. IWG-3/003). The preferred document naming convention was also described. It is as follows:

iwg3 <doc #> <short descriptive title> rev<#>

where <doc #> is replaced by a three digit number, e.g. 001-999, and the revision number <#> is used as needed. The “<>” are not to be included in the document titles.

Mr. Wayne Whyte (NASA) mentioned there was a document from NTIA containing three RCS approved Preliminary Views of WRC-15 Agenda items under the purview of IWG 3 that was sent to the FCC for review and comments. The Chair acknowledged this and noted that this document would be discussed under item 4 of the Agenda.

3. Overview of WAC/IWG Operations: The Chair described the WAC and IWG operations as they have changed from previous cycles. There is a formal WAC committee structured to have equal participation from each private sector company. In addition, companies were able to nominate additional individuals to serve as their representatives in the various IWGs. All of these nominations were reviewed and a cleared list of WAC and IWG members was developed by FCC legal counsel. In addition, all IWG meetings would be open to all individuals, and those participants not cleared by FCC legal counsel would be participating as observers.

The Chair stated that it was expected that most IWG 3 meetings would be

telephonic only unless troublesome issues arise that would benefit from in-person meetings.

A brief overview of the Terms of Reference (Doc IWG-3/002) was described along with the WAC timeline (Doc WAC/004) for the meeting's reference.

Formal distribution of documents would be done via the [IWG-3 listserv](#). Participants were instructed to subscribe from the email address that they would like to use to receive IWG 3 correspondence. Participants were informed that they must do this on their own, as the listserv subscription was automated and extracted the individual email address at the time of subscription.

4. Discussion of possible contributions to WRC-15 Agenda items (AIs) assigned to IWG-3: The Chair opened the discussion regarding possible Preliminary View (PV) contributions with a view to identify volunteers to draft a PV for each Agenda item at this meeting.

AI 1.5 (UAS Res. 53): Mr. Don Jansky volunteered to prepare a draft PV for this Agenda item and provided a brief overview of parallel work being done in the US WP 4A preparations as well as preparations for the upcoming ICAO meeting.

AI 1.6 (additional FSS primary allocations Res. 151 & 152): Mr. Zach Rosenbaum (SES) volunteered to prepare a draft PV for both of the sub-Agenda items 1.6.1 and 1.6.2. The Chair mentioned that Mr. Brennan Price was also interested in working on this Agenda item. Mr. Brandon Mitchel (NTIA) indicated that the RCS was also working on a draft PV and will likely have a draft available after their next meeting in September.

AI 1.7 (NGSO MSS feeder-links Res. 114): Mr. David Weinreich prepared and distributed a draft PV prior to the meeting but was unable to participate in the meeting. The Chair introduced the document and assigned it number 004 (IWG-3/004).

AI 1.8 (ESV Res. 909): Ms. Angela Maimo (Intelsat) volunteered to prepare a draft PV and provided a brief overview of the parallel work being done in US WP 4A.

Ai 1.9 (1.9.1 FSS in 7/8 GHz & 1.9.2 MMSS in 7/8 GHz): It was mentioned that the RCS is working on PV for both of these Agenda items. Mr. Jansky and Mr. Stephen Baruch were both interested in the development of the PV. It was recalled that the US did not support this Agenda item at WRC-12.

1.10 (MSS in 22-26 GHz): Mr. Wayne Whyte (NASA) introduced the RCS draft PV which supports studies under this Agenda item. Mr. Jansky indicated he was interested in contributing to this PV. The Chair assigned number 005 (IWG-3/005) to the NTIA document containing this PV and the PVs for AIs 1.11 and

1.12.

1.11 (primary allocation for EESS (E-s) 7/8 GHz): Mr. Wayne Whyte (NASA) introduced this draft PV from the RCS indicating that preliminary sharing studies indicate compatibility. Mr. Baruch voiced concerns about some of the language in the PV, particularly "... priority to the band ..." and "... band proves insufficient ...". The Chair had similar concerns. Mr. Whyte indicated that this could be revised. This RCS agreed PV can also be found in document 005.

1.12 (extension of 9300-9900 MHz EESS by 600 MHz): Mr. Wayne Whyte (NASA) introduced this draft PV from the RCS and described the need for studies and preference to the band 9900-10500 MHz. This RCS agreed PV can also be found in document 005.

The Chair opened the floor for possible dates of future IWG-3 meetings. It was noted that the RCS has a meeting on September 6 and there is a subsequent IRAC meeting the week of September 10-14. It was expected that the output from the IRAC could be available soon after its meeting. It was agreed that it would be useful to hold two additional IWG-3 meetings before the next Full WAC meeting on October 1.

The following IWG-3 timeline was agreed:

- 23 August, COB: deadline for circulation draft PVs to the IWG 3 listserv
- 30 August, 9:30am EST: next IWG-3 meeting (telephonic only)
- 20 September, 12:30 pm EST: second IWG-3 meeting (telephonic only)

Documents Distributed: The following documents were discussed during the meeting:

1. IWG3/001 (rev1): IWG-3 meeting Agenda
2. IWG3/002: Terms of Reference for IWG-3
3. IWG3/003: Template for meeting minutes
4. IWG-3/004: Draft PV for Agenda item 1.7
5. IWG-3/005: Agreed RCS PVs for Agenda items 1.10, 1.11 and 1.12

Public Participation Statement: This meeting was open to the public as announced by Public notice [DA 12-1298](#).

Author: Zach Rosenbaum

IWG-3 Mtg Participants list

Date: 8-16-2012

Name	Company
Jose Albuquerque	Intelsat
Audrey L. Allison	The Boeing Company
Steve Baruch	Lerman Senter
Enrique Cuevas	APL
Charles Einolf	CBS
Andy Feltman	Excelis
Chip Fleming	FCC
Tom Gergely	NSF
Trevor Graves	DoE
Humberto Henriques	Telecom Strategies
Joe Hill	FCC
Kris Hutchison	Aviation Spectrum Resources, Inc.
Dante Ibarra	FCC
Donald Jansky	Jansky-Barmat Telecommunications Inc.
Steve Kaltenmark	Telecom Strategies
Damon C. Ladson	Wiltshire & Grannis LLP
Roger LeClair	LeClair Telecom
Angela Maimo	Intelsat
Brandon Mitchell	NTIA
Michael Mullinix	FCC
John Nelsen	SES
Anh-Thu Nguyen	Excelis
Andrew Pencek	DoE
Larry Reed	ASRC
Zachary Rosenbaum	SES
Amy Sanders	Alcatel Lucent
Thomas S. Tycz	Goldberg Godles Wiener & Wright
Tom Walsh	Aerospace
Jack Wengryniuk	DirecTV
Charles Wende	ASRC
Wayne Whyte	NASA
Jonathan Williams	NTIA