Meeting: INFORMAL WORKING GROUP 3 (IWG-3)

Date/Time: Friday, July 19, 2024/2:00 PM ET

Location: Teleconference
[Join ZoomGov](#)
Meeting ID: 160 789 9181
Passcode: 442135
+1 669 254 5252 US
+1 669 216 1590 US

Committee Members & Observers Present: See Attachment.

FCC Employees Present: See Attachment.

Meeting Summary:

Opening Remarks
On Friday, July 19, 2024, the Informal Working Group 3 (IWG-3) met virtually for the second time in preparation of the 44th PCCII meeting (September 22-27, 2024 in Mérida, Mexico). Opening Remarks and Introduction were given by the IWG-3 Chair, Mr. Alex Epshteyn where he welcomed all WAC Members, Participants, and FCC Representatives. Mr. Dante Ibarra was present for FCC Representation. Minutes were taken by Mr. Ryan Henry.

Approval of the Agenda
(Document **IWG-3/001 (06.20.24)**) – Agenda was approved with no comments.

Approval of the Minutes from previous meeting
Chair mention error in file name i.e the name should read Meeting Minutes and not Meeting Agenda. No comments otherwise.

Meeting attendance will be based on zoom participation.

FCC DFO Update
Remarks were offered by the FCC Alternate DFO, Mr. Dante Ibarra in which he reiterated as the documents progress, offline discussions are limited to WAC members only.

Remarks from NTIA
Mr. Brian Patten stated that Preliminary Views (PVs) pertaining to IWG-3, were sent from NTIA, containing Agenda Item (AI) 1.2, additional PVs on other AIs are expected in August.

Mr. Brian Patten introduced the PV for AI 1.2: The NTIA view is that Radiolocation Service (RLS) and Space Research Service (SRS) shall not have any additional constraints imposed. There were no comments from WAC members. It was also noted that there is an IWG-3 PV under development.

Since the last meeting, additional coordinators for the development of PVs were identified, with the updated table below.

Initial Discussions towards Development of IWG-3 Preliminary Proposals
IWGs are expected to develop recommendations under AI 2, 4, 8, and 10 consistent with their expertise areas, and in particular to IWG-3, the following agenda items were introduced as a request for coordinators to develop views was indicated by the Chairman. For agenda items without a coordinator, the Chairman suggested that discussion will take place offline with the Vice Chairman and interested parties to establish a coordinator or find another method to proceed without a coordinator until one is found.

Below are the agenda items with proposed coordinators (in brackets) based on WAC members/organization who have volunteered, to date. Next meeting is July 25th. Deadline for documents in order to be considered at this meeting is July 24, 2024.

Agenda Item	Topic	Coordinator(s)	Discussion
1.1	To consider the technical and operational conditions for the use of the frequency bands 47.2-50.2 GHz and 50.4-51.4 GHz (Earth-to-space) by aeronautical and maritime earth stations in motion communicating with space stations in the fixed-satellite service	Ryan Henry	IWG-3/008 – PV on AI 1.1 drafted by CTIA was introduced by Mr. Michael Mullinix. Concerns raised by CTIA are to ensure that the Terrestrial services in Region 2 which are a bit different than other regions as far as the applicable RR footnotes. Noted comments received from Amazon and SES which would need to be resolved. Off-line discussions are already scheduled and interested WAC members are welcomed.
1.2	To consider possible revisions of sharing conditions in the frequency band 13.75-14 GHz to allow the use of uplink fixed-satellite service earth stations with smaller antenna sizes	Anum Pirzada Ben Wagner	IWG-3/009 – PV developed by Intelsat and Eutelsat Group introduced by Ms. Kim Baum (Eutelsat Group). There are commonalities with the NTIA PV, and it is possible to work from the NTIA view as a baseline. It is proposed that by the next meeting, off-line discussions should be scheduled to revise the NTIA PV document. Ms. Kim Baum has volunteered to lead this effort.
1.3	To consider studies relating to the use of the frequency band 51.4-52.4 GHz to enable use by gateway earth stations transmitting to non-geostationary-satellite orbit systems in the fixed-satellite service (Earth-to-space)	Hastyar Barvar	IWG-3/010 - PV developed by Amazon and introduced by Mr. Hastyar Barvar. No comments on this PV.
1.4	To consider a possible new primary allocation to the fixed-satellite service (space-to-Earth) in the frequency band 17.3-17.7 GHz and a possible new primary allocation to the broadcasting-satellite service (space-to-Earth) in the	Alex Epshteyn	IWG-3/011 - PV developed by Amazon and introduced by Mr. Hastyar Barvar. No comments on this PV

	frequency band 17.3-17.8 GHz in Region 3		
1.5	To consider regulatory measures, and implementability thereof, to limit the unauthorized operations of non-geostationary-satellite orbit earth stations in the fixed-satellite and mobile-satellite services and associated issues related to the service area of non-geostationary-satellite orbit satellite systems in the fixed-satellite and mobile-satellite services	Alex Epshteyn Damon Ladson Kim Baum	WG-3/012 - PV developed by Amazon, Iridium and Eutelsat Group but there is still just a little more discussion needed on certain aspects. Ms. Kim Baum (Eutelsat Group), Damon Ladson (Iridium) and Mr. Alex Epshteyn (Kuiper). Additional comments were received from Telesat via email correspondence which will be discussed at an offline. Chris Bair (Viasat) also has raised concerns during the meeting, and these will be reiterated following the meeting in preparation for the offline and the next meeting.
1.6	To consider technical and regulatory measures for fixed-satellite service satellite networks/systems in the frequency bands 37.5-42.5 GHz (space-to-Earth), 42.5-43.5 GHz (Earth-to-space), 47.2-50.2 GHz (Earth-to-space) and 50.4-51.4 GHz (Earth-to-space) for equitable access to these frequency bands	TBD	None
2*	Examine revised Recommendations	TBD	None
4*	Review Resolutions and Recommendations of previous conferences	TBD	None
7	To consider possible changes to advanced publication, coordination, and notification procedures	Steve Baruch	None
8*	Review country footnotes	TBD	None
10	Future Agenda Items	Alex Epshteyn	None

Note: Agenda items marked with an asterisk (*) have not yet been assigned a coordinator.

Future Meetings
- IWG-3
  - July 25, 2024 (2:00-4:00 PM ET)
    - Drafts are due July 24, 2024 (COB)
  - August 1, 2024 (2:00-4:00 PM ET)
    - Drafts are due [TBD]
- WAC
  - August 5, 2024 (to be confirmed)
- ITU-R Working Parties
  - 4A: October 21, 2024 - October 31, 2024 (Geneva, Switzerland)
- 44th Meeting of CITEL PCC.II
  - September 22-27, 2024 (Mérida, Mexico)

Any other business
None

Documents Distributed
- IWG-3_005_2nd Meeting Agenda (07.18.24).docx
- IWG-3-006_1st Meeting Agenda (06.20.24).docx
- IWG3-007_NTIA Letter to FCC_WRC-27 Preliminary Views_1.2, 1.9, 1.13, 1.15, and 1.16.docx
- IWG-3_008_US_PV_1.1.docx
- IWG-3_009(07.18.24)_US PV_1.2_clean.docx
- IWG-3_010_US_PV_1.3(07.18.24).docx
- IWG-3_011(07.19.24)_US_PV_1.4.docx
- IWG-3_012(07.18.2024)_ Draft PV for AI 1.5.docx

Public Participation Statement
The teleconference-only meeting of WAC-23 IWG-3 on July 19, 2024 was open to the public and 59 people participated as listed in the Attachment.

ADJOURNMENT
The meeting adjourned at 3:30 P.M.

I hereby certify that, to the best of my knowledge, the foregoing minutes are accurate and complete.

> Alex Epshteyn
> Chair, IWG-3
> Amazon

These minutes will be formally considered by the Council at its next meeting, and any corrections or notations will be incorporated in the minutes of that meeting.

ATTACHMENT

Name	Organization	WAC Affiliation

Alex Epshteyn	Chair/Amazon Project Kuiper	Member
Ryan Henry	Vice Chair/SES	Member
Allen Yang	FCC	
Clay DeCell	FCC	
Dante Ibarra	FCC	
Donna Wang	FCC	
Eric Grodsky	FCC	
Gregory Baker	FCC	
Louis Bell	FCC	
Andrew Pegues	State	
Dan Mansergh	Apple	Member
Jonathan Siverling	ARRL	Member
Navid Motamed	AT&T	Member
Brandon Mitchell	Boeing	Member
Sarah Leggin	CTIA	Member
Michael Mullinix	CTIA	Member
Steve Dulac	DirecTV	Member
Alison Minea	EchoStar	Member
Kimberly Baum	Eutelsat Group	Member
Ben Wagner	Eutelsat Group	Member
Arvin Tangestanian	Eutelsat Group	Member
George John	Fleet Space	Member
Steve Baruch	GPSIA	Member
Veena Rawat	GSMA	Member
Jayne Stancavage	Intel	Member
Anum Pirzada	Intelsat	Member
Giselle Creeser	Intelsat	Member
Damon Ladson	Iridium	Member
Tatiana Lawrence	Iridium	Member
Scott Kotler	Lockheed Martin	Member
Frank Korinek	Motorola Solutions	Member
Judy Deng	SES	Member
Brett Tarnutzer	SpaceX	Member
Catherine Hinckley	Telesat	Member
Pascale Dumit	T-mobile	Member
Daudeline Meme	Verizon	Member
Max Solondz	Verizon	Member
Christopher Bair	Viasat	Member
Tim Maguire	ADS/NASA	Observer
Audrey Allison	Aerospace	Observer
Kellen Gibson	DISA	Observer
Jack Wengryniuk	DoD CIO	Observer
Andy Feltman	DoD/CIO	Observer
Tanin Izadi	DoD/CIO	Observer
Franz Zichy	DoD/CIO	Observer
Carmelo Rivera	DON CIO	Observer
Joseph Holliday	NASA	Observer
Edna Prado	NOAA	Observer
Tomasz Wojtaszek	NOAA	Observer
Chris Hough	NOAA	Observer
Brian Patten	NTIA	Observer

Jennifer A. Manner	NTIA	Observer
Shelli Rose Haskins	NTIA	Observer
Randy Cantz	Policy Associate, FTI	Observer
Scott Palo	Spectrum X	Observer