

Meeting: INFORMAL WORKING GROUP 3 (IWG-3)

Date/Time: Thursday, July 25, 2024/2:00 PM ET

Location: Teleconference
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Meeting ID: 160 789 9181
Passcode: 442135
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Committee Members & Observers Present: See Attachment.

FCC Employees Present: See Attachment.

Meeting Summary:

Opening Remarks

On Thursday, July 25, 2024, the Informal Working Group 3 (IWG-3) met virtually for the third 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

Approval of the Agenda

(Document IWG-3/013R1_3rd Meeting Agenda (07.25.24) – Agenda was approved with no comments.

Approval of the Minutes from previous meeting

Document IWG-3/014 – Minutes was approved with no comments.

Meeting attendance will be based on zoom participation.

FCC DFO Update

There were no updates from the FCC DFO Mr. Gregory Baker.

Mr. Dante Ibarra (FCC) gave clarification and guidance on the development of PVs with respect to revision marks, which is that IWG PVs do not need to maintain track changes on updated IWG proposals as they are developed and submitted for discussion in one of the IWGs.

Remarks from NTIA

Mr. Brian Patten stated that Preliminary Views has no updates but believes there will be proposals coming from the RCS however the timing may not work in order to consider any of these in the IWG-3 meetings.

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 August 1st. Deadline for documents in order to be considered at this meeting is July 31, 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 Michael Mullinix	IWG-3/008 – PV on AI 1.1 drafted by CTIA was introduced by Mr. Michael Mullinix. Edits provided by SES and AMZ, along with GSMA and CTIA. These addressed the concerns from the terrestrial community noting the situation in Region 2 as it pertains to these frequency bands for this AI. No additional comments. <u>Document Approved to be sent to the WAC</u>
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). This revised document shows edits to the PV received from the NTIA. No additional comments. <u>Document Approved to be sent to the WAC</u>
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. Same status from last meeting, no comments received. <u>Document Approved to be sent to the WAC</u>
1.4	To consider a possible new primary allocation to the fixed-satellite service	Alex Epshteyn	IWG-3/011 - PV developed by Amazon and introduced by Mr.

	<p>(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 frequency band 17.3-17.8 GHz in Region 3</p>		<p>Hastyar Barvar.</p> <p>Same status from last meeting, no comments received.</p> <p>FCC provided comments during the meeting and wanted to ensure that the U.S. View is not suggesting a proposal for Region 3. Amazon explains that this is intended to harmonize all 3 Regions. Proposal to add language to clarify the purpose from the U.S. standpoint is to support global harmonization of this band.</p> <p>With the edits made during the meeting regarding the above comments, this document was approved to be sent to the WAC.</p>
<p>1.5</p>	<p>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</p>	<p>Alex Epshteyn Damon Ladson Kim Baum</p>	<p>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).</p> <p>A consolidated view was developed with support from AMZ, Iridium and EUT.</p> <p>Mr. Brennan Price (Viasat) agrees this is improved but has some concern and requests a bit more time to address these concerns. Will circulate the comments.</p> <p>Mr. Navid Motamed ATT – Clarification if AI 1.5 is only considering uplink transmissions. OneWeb response is that the resolution does indicate Earth-to-space directionality only.</p> <p>FCC encourages off-line discussion to address remaining comments.</p> <p>Ms. Veena Rawat (GSMA) raised concerns that there are broad implications and perhaps should consider any possible solutions that extend to MSS by default of it being included in the resolution.</p>

			After discussion the document is tabled and OneWeb will organize an off-line meeting to further discuss.
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
 - August 1, 2024 (2:00-4:00 PM ET)
 - Drafts are due 31 July 2024
- WAC
 - August 5, 2024
- 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_008R1(07.25.24)_US_PV_1.1.docx
- IWG-3_009R1(07.25.24)_US PV_1.2.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_012R1(07.24.2024)_ Draft PV for AI 1.5.docx
- IWG-3_013_3rd Meeting Agenda (07.25.24).docx
- IWG-3-014_2nd Meeting Minutes (07.19.24).docx

Public Participation Statement

The teleconference-only meeting of WAC-23 IWG-3 on July 25, 2024 was open to the public and 51 people participated as listed in the Attachment.

ADJOURNMENT

The meeting adjourned at 2:45 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
Gregory Baker	FCC DFO	
Dante Ibarra	FCC	
Eric Grodsky	FCC	
Allen Yang	FCC	
Donna Wang	FCC	
Clay DeCell	FCC	
Hastyar Barvar	Amazon	Member

Reza Arefi	Apple	Member
Dan Mansergh	Apple	Member
Jonathan Siverling	ARRL	Member
Navid Motamed	AT&T	Member
Marc Grant	AT&T	Member
Toby Youell	Avanti Communications	Member
Michael Mullinix	CTIA	Member
Steve Dulac	DIRECTV	Member
Arvin Tangestanian	Eutelsat Group	Member
Kimberly Baum	Eutelsat Group	Member
Steve Baruch	GPSIA	Member
Veena Rawat	GSMA	Member
George John	HL for Fleet Space	Member
Giselle Creeser	Intelsat	Member
Anum Pirzada	Intelsat	Member
Damon Ladson	Iridium	Member
Scott Kotler	Lockheed Martin	Member
Frank Korinek	Motorola Solutions	Member
Ardavan Tehrani	Samsung	Member
Judy Deng	SES	Member
Brett Tarnutzer	SpaceX	Member
Ian Christensen	SWF	Member
Catherine Hinckley	Telesat	Member
Pascale Dumit	T-Mobile	Member
Daudeline Meme	USA	Member
Max Solondz	Verizon	Member
Christopher Bair	Viasat	Member
Brennan Price	Viasat	Member
Carmelo Rivera	ACES for DON CIO	Observer
Audrey Allison	Aerospace for DoD CIO	Observer
Alex Epshteyn	Amazon	Observer
Konstantinos Stefanidis	ASRC/NASA	Observer
Zach Rosenbaum	DLA Piper	Observer
Chris Hough	DOC/NOAA	Observer
Fernando Carrillo	EchoStar	Observer
Randy Cantz	FTI	Observer
Tanin Izadi	HII for DoD CIO	Observer
Franz Zichy	HII for DoD CIO	Observer
Andy Feltman	HII for DoD CIO	Observer
Edna Prado	NOAA/DOC	Observer
Brian Patten	NTIA	Observer
Alejandro Plate	Verizon	Observer