

Meeting Minutes

Meeting: WAC-27 Informal Working Group 4 (IWG-4)
Mobile-Satellite and Space Science Services

Date/Time: August 1, 2024 (11:00-11:51 ET)

Location: Zoom and teleconference only

Committee Members & Observers Present:

Chair: Damon Ladson (HWG LLP for Iridium)

Vice Chair: George John (Hogan Lovells US LLP for Fleet Space)

Additional members and observers present: See Appendix

FCC Employees Present:

Gregory Baker, WAC-27 DFO, and Dante Ibarra, WAC-27 Alternate DFO, confirmed their presence.

Meeting Summary:

1. Opening Remarks and Introductions

The Chair offered brief opening remarks and appreciated the group's cooperation in getting more than two PVs approved. Procedural issues were addressed, including the requirement for participants to list their affiliation in their Zoom screen name.

2. Agenda Approval and Minutes Taker Appointment

The agenda in Document **IWG-4/020 (08.01.24)** was approved. The Vice Chair volunteered to record minutes to be eventually recorded in Document **IWG-4/025 (08.01.24)**.

3. FCC Update

The DFO advised that the next WAC meeting is Monday, August 5 at 9:30 AM ET (with online broadcast available).

4. NTIA RCS Update

Brian Patten (NTIA) introduced NTIA's agenda item 1.17, 1.18, and 1.19 PVs.

For 1.17 and 1.18, the associated IWG-4 agenda item coordinators noted that the IWG-4 PVs used the NTIA PV as the base.

For 1.19, Michael Mullinix (CTIA) supported the previously approved IWG-4 PV, mentioned the NTIA PV's report reference is inappropriate given the omission of key facts, and noted the referenced PDNR is not final. Chair sought guidance on how to handle the NTIA and IWG-4 1.19 PVs. CTIA suggested that IWG-4 note the NTIA PV and consider it during the next WAC cycle. The DFO agreed.

5. IWG-4 Agenda Items

Please see the table on the following page.

WRC-27 AI	Subject	US Preliminary View(s)	Status
1.11	MSS Inter-Satellite Links Res.249 (Rev.WRC-23)	FCC: IWG-4/009r1	<p>Chair and Brennan Price (Viasat): restructured the background and removed redundant text.</p> <p>Scott Kotler (Lockheed Martin): requested an editorial change that would remove “satellites” after “cubesats” given the redundancy.</p> <p>IWG-4 version is approved.</p>
1.12	MSS Low Data Rate Res.252 (WRC-23)	FCC: IWG-4/017	<p>Vice chair: had one offline where we discussed the agenda item scope and frequency overlap with other MSS agenda items. Additional time is needed to develop this PV.</p> <p>IWG-4 version is tabled.</p>
1.13	MSS IMT Res.253 (WRC-23)	FCC: IWG-4/010r1 NTIA: IWG-4/014	<p>Pascale Dumit (T-Mobile): updated the background, including FCC SCS reference and incumbent breakdown, particularly in UHF; and refined the PV scope.</p> <p>IWG-4 version is approved.</p>
1.14	MSS 2 GHz Res.254 (WRC-23)	FCC: IWG-4/011r1	Chair: IWG-4 version was approved last meeting.
1.15	Lunar Communications Res.680 (WRC-23)	FCC: IWG-4/018r1 NTIA: IWG-4/008	<p>Mr. Kotler: highlighted updates and introduced minor editorials.</p> <p>Mr. Mullnix: thanked Mr. Kotler for compromising and noted this final PV and the final AI 1.13 PV will help these agenda items succeed.</p> <p>IWG-4 version is approved.</p>
1.16	Radio Quiet Zones Res.681 (WRC-23)	FCC: IWG-4/012r1 NTIA: IWG-4/008	Kim Baum (Eutelsat-OneWeb): Addressed resolves 1 and 2 separate from resolves 3 to 6 and noted it is premature to specify any action. Hastyar Barvar (Amazon) thanked everyone. Ms. Baum thanked Mr. Price for compromising.

WRC-27 AI	Subject	US Preliminary View(s)	Status
			IWG-4 version is approved.
1.17	Space Weather Sensors Res.682 (WRC-23)	FCC: IWG-4/022 NTIA: IWG-4/021	Mr Kotler: handled reconciliation by email only. Most significant edit was to note existing allocations. IWG-4 version is approved.
1.18	EESS (Passive) and Radio Astronomy Protection above 76 GHz Res.712 (WRC-23)	FCC: IWG-4/023 NTIA: IWG-4/021	Mr. Barvar: introduced document. DFO: asked if entire NTIA PV was rewritten. Mr. Barvar said IWG-4 document used the NTIA PV as the base before editing. IWG-4 version is approved.
1.19	EESS (Passive) in 4 GHz and 8 GHz Res.674 (WRC-23)	FCC: IWG-4/013r1 NTIA: IWG-4/021	Chair: IWG-4 version was approved last meeting.
2*	Radio Regulations Updates Based on Radiocommunication Assembly Action Res.27 (Rev.WRC-19)	None	Mr. Price: no updates.
4*	Resolutions and Recommendations Revision, Replacement, or Abrogation Res.95 (Rev.WRC-19)	None	Mr. Price: no updates.
8*	Country Footnote Deletions Res.26 (Rev.WRC-23)	None	Chair: no updates.
10*	Future Agenda Items Res.804 (Rev.WRC-23) Res.814 (WRC-23)	None	Vice Chair: no updates. Chair: IWG-4 members should start considering future agenda

WRC-27 AI	Subject	US Preliminary View(s)	Status
			items now and consider submitting them earlier this cycle than in previous cycles.

6. Future Meetings

The Chair noted that IWG-4 will not meeting again until after the September 2024 CITEL meeting.

5. Any Other Business

The meeting was closed at 11:51 ET.

Documents Distributed:

IWG-4_009r1_US_PV_1.11 (08.01.24)
IWG-4_010r1_US_PV_1.13 (08.01.24)
IWG-4_012r1_US_PV_1.16 (08.01.24)
IWG-4_018r1_US_PV_1.15 (08.01.24)
IWG-4_019_Meeting 3 Minutes (07.25.24)
IWG-4_020_Meeting 4 Agenda (08.01.24)
IWG-4_021_NTIA Letter to FCC_WRC-27 Preliminary Views_1.17 1.18 and 1.19 (08.01.24)
IWG-4_022_US_PV_1.17 (08.01.24)
IWG-4_023_US_PV_1.18 (08.01.24)

Public Participation Statement:

This meeting was open to the public. See Public Notice, OIA Docket No. 24-30-FR-ID-223083 (June 13, 2024). The meeting had 29 members (including the IWG-4 Chair and Vice Chair), 26 identifiable observers (including 1 duplicate), 6 FCC employees in attendance, and 1 unknown entry based on the Zoom roster.

Author:

George V. John, Hogan Lovells US LLP for Fleet Space, prepared these minutes.

Certification:

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

Damon C. Ladson, HWG LLP for Iridium
Chair, IWG-3

These minutes will be formally considered by IWG-4 at its next meeting, and any corrections or notations will be incorporated in the minutes of that meeting.

APPENDIX
(Meeting Attendee List)

Members

Iridium (Alt.) - Damon Ladson (USA - Damon Ladson)
George John (HL for Fleet Space) (George John)
USA - Siverling Jonathan ARRL
Hastyar Barvar Amazon
USA/LM Scott Kotler
Apple - Reza Arefi
GSMA-Veena Rawat
CTIA/Michael Mullinix
Viasat (Alt.) - Christopher Bair (Christopher Bair)
Daudeline Meme - Verizon
Steve Baruch - GPSIA (Steve Baruch)
Ian Christensen (SWF)
Brandon Mitchell - Boeing
Kimberly Baum (Eutelsat Group)
SES - Judy Deng
Dan Mansergh - Apple
Arvin Tangestanian - Eutelsat Group
Fabiano Chaves (Nokia)
Tatiana Lawrence, Iridium
Ryan Henry - SES
Robert Kubik (Samsung)
Viasat - Brennan Price (Brennan Price)
Anum Pirzada - Intelsat
Pascale Dumit
Max Solondz (Verizon)
Alex Epshteyn
Molly Gavin- Omnispace
Sarah Leggin
OneWeb - Ben Wagner

FCC Representatives

USA/FCC: Dante Ibarra
Allen Yang (FCC)
USA/FCC Gregory.Baker
Clay DeCell (FCC)
USA - FCC - Eric Grodsky
USA/FCC Donna Wang

Observers

Observer Ken Keane for TRMC (Ken Keane for TRMC)
Observer - Carmelo Rivera - ACES for DON CIO
Observer# Amy L. Sanders# NTIA (Amy L. Sanders, NTIA)
(Christine DiLapi) (observer)
Observer Jack Wengryniuk HII for DoD CIO (Jack Wengryniuk HII for DoD
CIO observer)
Observer Brian Patten NTIA
Tom Wojtaszek (DOC/NOAA) - Observer (Tom Wojtaszek (DOC/NOAA))
Cole Trautman (Observer for FTI) (Cole Trautman (Policy Associate, FTI))
(IWG-4 OBSERVER) MR MARC SEIBERT,ASRC-ADS at NASA
Jeff Baenke (UScellular)
Wayne Whyte - Observer Teltrium for NASA
Observer - Tanin Izadi (HII for DoD CIO)
Observer: zach rosenbaum (DLA Piper)
Observer Edna Prado (NOAA/DOC)
Observer - Shelli Rose Haskins (Shelli Rose Haskins, NTIA (observer))
Fernando Carrillo (EchoStar)
Alejandro Plate - Verizon
Observer - Scott Palo (SpectrumX) (Scott Palo)
mike lopker
Galen Roehl
USA Audrey Allison observer (USA Audrey Allison)
Vassilios "Basil" Tsiglifis (DoC/NOAA Observer) (Vassilios "Basil" Tsiglifis
(DoC))
David Lerch
Observer Jack Wengryniuk HII for DoD CIO
Observer - Shelli Rose Haskins, NTIA
Jennifer A. Manner, NTIA

Unknown

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