

## Meeting Minutes

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

**Date/Time:** July 25, 2024 (11:00-12:00 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. 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

Kim Baum (Eutelsat-OneWeb) inquired what Document IWG-4/012r1 referenced. The Chair explained that IWG-4 leadership received many comments and redlines, will correct the agenda to exclude non-consensus revisions such as Document IWG-4/012r1, and circulate the pending documents after the meeting. The agenda in Document **IWG-4/016r1 (07.25.24)** was approved. The Vice Chair volunteered to record minutes to be eventually recorded in Document **IWG-4/019 (07.25.24)**.

#### 3. FCC Update

Dante Ibarra (FCC) asked that IWGs publish redlines only to show edits to an existing CITE PV or an NTIA PV and otherwise submit redline-free documents.

#### 4. NTIA RCS Update

Brian Patten (NTIA) explained that NTIA circulated the RCS' agenda item 1.17, 1.18, and 1.19 PVs to the FCC. Mr. Ibarra said he would forward the documents for IWG-4's consideration.

5. IWG-4 Agenda Items

<b>WRC-27 AI</b>	<b>Subject</b>	<b>US Preliminary View(s)</b>	<b>Status</b>
1.11	MSS Inter-Satellite Links <a href="#">Res.249 (Rev.WRC-23)</a>	FCC: IWG-4/009	Pending. AMT protection text is still under debate. Offline meetings and correspondences are ongoing.
1.12	MSS Low Data Rate <a href="#">Res.252 (WRC-23)</a>	FCC: IWG-4/017	Pending. The Vice Chair (speaking for Fleet Space) introduced the PV. Michael Mullinix (CTIA) wanted to add language protecting IMT. Chair (speaking for Iridium) wanted to keep the item as general MSS if it is to advance as a US PV and sought further offline discussion. Brennan Price (Viasat) noted the 1.6 GHz band has a distress safety communications limitation. Mr. Ibarra noted that IMO is going to delegate what will happen to the 1.6 GHz band to the IMO/ITU expert group and no definite answer exists regarding how to treat this one megahertz. The Chair noted the band no longer supports EPIRBs but is still considered for GMDSS. Vice chair requested that interested parties email him regarding related offline meeting participation.
1.13	MSS IMT <a href="#">Res.253 (WRC-23)</a>	FCC: IWG-4/010 NTIA: IWG-4/014	Pending. Multiple comments received. Offline meetings and correspondences are ongoing.
1.14	MSS 2 GHz <a href="#">Res.254 (WRC-23)</a>	FCC: IWG-4/011r1	Approved (after minor clarifying edits).
1.15	Lunar Communications <a href="#">Res.680 (WRC-23)</a>	FCC: IWG-4/018 NTIA: IWG-4/008	Pending. Mr. Mullinix explained his NTIA RCS PV edits, including removal of the US-centric focus and bifurcation of the agenda item 1.15 and 9.2-related text. Scott Kotler (Lockheed Martin) will host offline discussions to finalize this document.
1.16	Radio Quiet Zones <a href="#">Res.681 (WRC-23)</a>	FCC: IWG-4/012 NTIA: IWG-4/008	Pending. Chair (speaking for Iridium) explained interested parties attempted to edit the NTIA RCS PV. Hastyar Barvar noted the IWG-4 PV remains consensus. Based on FCC guidance, further offline discussions are agreed to potentially merge the IWG-4 and NTIA PVs.
1.17	Space Weather Sensors <a href="#">Res.682 (WRC-23)</a>	None	Pending. Mr. Kotler committed to editing the forthcoming NTIA RCS PV and discussing the updated draft with interested parties.

WRC-27 AI	Subject	US Preliminary View(s)	Status
1.18	EESS (Passive) and Radio Astronomy Protection above 76 GHz <a href="#">Res.712 (WRC-23)</a>	None	Pending. Mr. Barvar volunteered to be this agenda item's lead coordinator. He also committed to editing the forthcoming NTIA RCS PV and discussing the updated draft with interested parties.
1.19	EESS (Passive) in 4 GHz and 8 GHz <a href="#">Res.674 (WRC-23)</a>	FCC: IWG-4/013r1	Approved (after minor clarifying edits).
2*	Radio Regulations Updates Based on Radiocommunication Assembly Action <a href="#">Res.27 (Rev.WRC-19)</a>	None	N/A. Mr. Price had no updates.
4*	Resolutions and Recommendations Revision, Replacement, or Abrogation <a href="#">Res.95 (Rev.WRC-19)</a>	None	N/A. Mr. Price had no updates.
8*	Country Footnote Deletions <a href="#">Res.26 (Rev.WRC-23)</a>	None	N/A. The Chair had no updates.
10*	Future Agenda Items <a href="#">Res.804 (Rev.WRC-23)</a> <a href="#">Res.814 (WRC-23)</a>	None	N/A. The Vice Chair had no updates. The Chair requested that members start considering future agenda items now and consider submitting them earlier this cycle than in previous cycles.

6. Future Meetings

The Chair noted that the next IWG-4 meeting is scheduled for Thursday, August 1, 2024 (11:00-13:00 ET), final drafts are due before Tuesday, July 30, 2024 (COB ET) if possible, and the next WAC meeting is scheduled for Monday, August 5, 2024 (9:30 ET).

5. Any Other Business

The meeting was closed at 12:00 ET.

**Documents Distributed:**

Document IWG-4/015 (07.19.24) – Meeting 2 Minutes  
Document IWG-4/016r1 (07.25.24) – 3rd Meeting Agenda  
Document IWG-4/011r1 (07.19.24) – Preliminary View Agenda Item 1.14  
Document IWG-4/013r1 (07.19.24) – Preliminary View Agenda Item 1.19  
Document IWG-4/017 (07.19.24) – Preliminary View Agenda Item 1.12  
Document IWG-4/018 (07.19.24) – Preliminary View Agenda Item 1.15

**Public Participation Statement:**

Meeting IWG-4/3 (July 25, 2024) was open to the public as announced by Public Notice, OIA Docket No. 24-30-FR-ID-223083 (June 13, 2024) and had 31 members (including the IWG-4 Chair and Vice Chair), 18 identifiable observers, and 6 FCC employees in attendance. The Zoom roster indicated 2 entries with no affiliation and 1 duplicate entry.

**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. 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**

USA - Siverling Jonathan ARRL  
Iridium Alt. - Damon Ladson  
SES - Judy Deng  
George John (HL for Fleet Space)  
CTIA/Michael Mullinix  
Hastyar Barvar Amazon  
Daudeline Meme - Verizon  
Steve Baruch - GPSIA (Steve Baruch)  
USA/LM Scott Kotler  
Frank Korinek (Motorola Solutions)  
Apple - Reza Arefi  
Dan Mansergh - Apple  
Viasat Alt. - Christopher Bair (Christopher Bair)  
Brandon Mitchell - Boeing  
Amazon - Alex Epshteyn (Alex Epshteyn)  
Arvin Tangestanian - Eutelsat Group  
Molly Gavin- Omnispace  
AT&T Navid Motamed  
Max Solondz (Verizon)  
GSMA-Veena Rawat  
Pascale Dumit (T-Mobile)  
Giselle Creeser \_ Intelsat  
Viasat Brennan Price (Brennan Price)  
USA - Daudeline Meme  
Anum Pirzada - Intelsat  
Kimberly Baum (Eutelsat Group)  
Ian Christensen (SWF)  
Sarah Leggin  
Intel-Jayne Stancavage  
Ryan Henry - SES  
Noman Alam (Ericsson)

**FCC**

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

## Observers

Observer Lauren Blechschmidt (laurenblechschmidt)

Observer - Carmelo Rivera - ACES for DON CIO (Carmelo Rivera - ACES for DON CIO)

Observer# Amy L. Sanders# NTIA (Amy L. Sanders, NTIA)

Observer Edna Prado (NOAA/DOC) (Edna Prado (NOAA/DOC) -Observer)

Observer - Chris Hough (DOC/NOAA) (Chris Hough (DOC/NOAA - Observer))

Observer Brian Patten NTIA (Brian Patten NTIA Observer)

Observer - Tanin Izadi (HII for DoD CIO) (Tanin Izadi - HII for DoD CIO observer)

Wayne Whyte - Observer Teltrium for NASA (Wayne Whyte - Teltrium for NASA)

Jeff Baenke (UScellular)

Joseph Holliday - ComSat Architects for NASA

Observer - Franz Zichy (HII for DoD CIO) (Franz Zichy)

Observer- Shelli Rose Haskins# NTIA (Shelli Rose Haskins, NTIA - Observer)

UNITED STATES, MR MARC SEIBERT, ASRC-ADS at NASA

Observer - Kellen Gibson (DISA) (Kellen Gibson - DISA (Observer))

Tomasz Wojtaszek, NOAA - Observer

(IWG-4 OBSERVER) MR MARC SEIBERT, ASRC-ADS at NASA

Observer - Scott Palo (SpectrumX) (Scott Palo)

iPad (2)USA - Audrey Allison (observer)Aerospace for DoD CIO (iPad (2)USA - Audrey Allison)

## Unknown

IL

David Lerch