

ICAO WRC-27 Preparatory Workshop Agenda item 1.12: "Low Data-Rate" MSS

Damon C. Ladson

Technical Policy Advisor HWG, LLP

Presentation Overview

01

Background

02

Potential Issues

03

ICAO Position

04

Conclusion

Background

- Agenda Item 1.12 considers possible allocations to the mobile-satellite service (MSS) and regulatory actions in the frequency bands 1 427-1 432 MHz (space-to-Earth), 1 645.5-1 646.5 MHz (space-to-Earth) (Earth-to-space), 1 880-1 920 MHz (space-to-Earth) (Earth-to-space), and 2 010-2 025 MHz (space-to-Earth) (Earth-to-space) for the development of low-data-rate non-GSO MSS systems, in accordance with Resolution 252 (WRC-23).
- WRC-23 considered this matter but failed to reach consensus and no allocations were made.

Potential Issues

- Compatibility challenges between MSS and incumbent services in these frequency bands.
- Ensuring protection for existing aeronautical safety services.
- Defining the technical parameters and operational requirements for "low-data-rate" MSS.

ICAO Position

To ensure that the results of this agenda item do not reduce the protection of, or impose additional regulatory or technical constraints on, aeronautical mobile-satellite (R) communications provided under the mobile satellite service allocations in the frequency band 1 646.5-1 656.5 MHz where No.
5.357A applies.

Conclusion

- Ongoing ITU-R studies are crucial for determining the feasibility of new MSS allocations.
 - The upcoming meeting of ITU-R WP 4C will consider the first series of study submissions.
- ICAO remains engaged in discussions to ensure aviation spectrum needs are met.

 Collaboration among stakeholders is necessary to address compatibility, technical, and regulatory challenges.

