International Civil Aviation Organization

Sixth Meeting of the Frequency Management Working Group (FM WG/6)

(Cairo, Egypt, 27 – 28 September 2026)

Agenda Item 3: Spectrum Regulatory Measures to Mitigate GNSS Interference

SURVEY DEVELOPED ON THE IMPLEMENTATION OF EFFECTIVE SPECTRUM REGULATORY MEASURES TO MITIGATE GNSS RADIO FREQUENCY INTERFERENCE

(Presented by the Secretariat)

SUMMARY

This paper introduces a survey for MID Region Member States on the implementation of effective spectrum regulatory measures to mitigate GNSS radio frequency interference. The initiative is intended to support a better understanding of the status of implementation across the region and inform future regional actions.

Action by the meeting is at paragraph 3.

REFERENCES

- MIDANPIRG/23 Report (14-18 June 2026, Cairo, Egypt)
- ICAO MID State Letter Ref. AN 7/30.21 - 26/193, dated 26 Sep 2026.

1. INTRODUCTION

1.1 The Effective spectrum regulatory measures are essential for protecting GNSS services from harmful radio frequency interference. They help ensure that GNSS signals remain reliable and available for aviation operations by supporting proper spectrum management, monitoring, and enforcement activities. These measures also enable States to identify and address sources of interference in a timely manner, thereby enhancing the safety, efficiency, and resilience of air navigation services.

2. DISCUSSION

2.1 The meeting may wish to recall that the CNS SG/15 meeting reviewed the provisions and recommendations for enhancing interference mitigation, detection and resolution through

effective spectrum regulatory measures and enforcement, and developed a matrix of measures with their reference, as at **Appendix A**.

2.2 The MIDANPIRG/23 meeting reviewed the matrix of measures and urged States, through Conclusion 23/27, to implement those measures, and requested ICAO MID to provide a survey to monitor implementation.

> MIDANPIRG CONCLUSION 23/27: MITIGATING INTERFERENCE THROUGH EFFECTIVE SPECTRUM REGULATORY MEASURES AND ENFORCEMENT
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> That, in order to implement Assembly Resolutions and ICAO provisions related to the mitigation of interference through effective spectrum regulatory measures and enforcement, States are urged to implement the actions listed in Appendix 5.7D and provide feedback to the CNS SG/16 meeting, for monitoring and appropriate action.

2.3 The ICAO MID Region circulated a State Letter Ref. AN 7/30.21 - 26/193, dated 26 Sep 2026, requested States to complete the survey no later than 15th October 2026. The survey available at Survey Link.

3. ACTION BY THE MEETING

3.1 The meeting is invited to urge States to submit their survey responses by the specified deadline and review their existing spectrum regulatory measures with a view to identifying opportunities for enhancing the protection of GNSS from harmful RFI.

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Effective Spectrum Regulatory Measures and Enforcement to Mitigate the Interference

No.	Action	Reference	Status (Completed/Ongoing/ not yet started)	Completion date	Remarks
1.	**Enhance collaboration with national radio regulator** Existence of a coordination mechanism for detecting, geo-locating, and mitigating interference sources.	ICAO/ITU/IMU Joint declaration, action (d)			
2.	**Collaborate with the Radio Regulator to strengthen enforcement measures addressing the commercialization, purchase, possession, and use of illegal transmitters, including jammers and signal spoofers.** Actions may include, inter alia: *Establish and enforce the necessary legal and regulatory frameworks to prevent, detect and regulate the sale of such devices, both online and offline, and effectively confiscate them*	A42-8/C Resolution ICAO Electronic Bulletin 25/20			

3.	**Ensure proper resolution for incidents of GNSS RFI with cross-border impact that cannot be solved nationally or internationally through routine procedures** -Existence of procedure to utilize the ITU Radio Regulations (RR) escalation procedure (RR Article 15) to report of interference incidents that could be resolved through routine procedure; - Established procedure exists for reporting harmful interference and for the subsequent escalation to relevant authorities through ICAO Regional Office and ITU SIRRS	ICAO/ITU/IMU Joint declaration, action (e) ITU Resolution 676 ICAO Electronic Bulletin 25/20			
4.	***enhance the capacity of technical staff to effectively detect, identify, investigate, and report harmful interference***	FM WG/5 Report			
5.	**improve coordination with the military by facilitating the sharing of information on GNSS RFI testing and any relevant activities such as Counter-UAS operations**	ICAO Electronic Bulletin 25/20			

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