



ICAO

International Civil Aviation Organization

EIGHTH MEETING OF SPECTRUM REVIEW WORKING GROUP (SRWG/8)

Bangkok, Thailand, 05-07 March 2024

Agenda Item 11: Review the action items

REVIEW OF THE ACTION LIST

(Presented by the Secretariat)

SUMMARY

This paper presents the development in APAC Region and the Action List for review by this meeting.

1. INTRODUCTION

1.1 Since its establishment, the following meetings of this WG have been held with significant development and achievements:

• SRWG/1	26-27 June 2014 in Bangkok	8 participants from 5 States
• SRWG Webconference 1	30 September 2014	7 participants from 4 States
• SRWG Webconference 2	05 November 2014	9 participants from 6 States
• SRWG Webconference 3	13 January 2015	9 participants from 5 States
• SRWG/2	12-14 May 2015 in Bangkok	17 participants from 9 States
• SRWG Webconference 4	02 July 2015	8 participants from 5 States
• SRWG Webconference 5	18 February 2016	6 participants from 5 States
• SRWG/3	31 May - 02 June 2016 in Bangkok	11 participants from 7 States
• SRWG/4	9-10 June 2020 via VTC	43 participants from 11 States
• SRWG/5	15-17 March 2021 via VTC	109 participants from 18 States
• SRWG/6	1-3 March 2022 via VTC	74 participants from 16 States
• SRWG/7	15-17 February 2023	58 participants from 17 States

2. DISCUSSION

2.1 SRWG/7 updated action list is provided in this paper in **Appendix A**. The secretariat and States, with strong support from Technical Officers of CNSS, and Ms Fabiola Chouha, Technical Associate CNSS and the person managing the Frequency Finder tool at ICAO HQs, Montreal, and by Mr. Robert Witzen, a former ICAO Officer, an expert in frequency management and main developer of Frequency Finder software tool, have carried out necessary follow-up with various action items.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) review and update the Action List provided in **Appendix A**; and
- c) discuss any relevant matters as appropriate.

SRWG/8
Appendix A to WP/11

Reference	Who	What	Due date	Status	Completed on	Result	Comment
A 4-5	All	States to provide ICAO Regional Office with information of all facilities that are in operation to improve the currency of Frequency lists	30-Mar-24	Open On-going		In progress	
A 4-7	All, Robert Witzen	Create ad hoc group to draft Table of Content first, then develop the regional guidance material on aeronautical frequency spectrum management in a shared way by States.	31/03/2023 CNS SG/27	Open		CAAC volunteered to share a draft and lead the adhoc group. Decided to be continued in SRWG/5.	1. follow up VTC on 3 July. 2. Ad hoc drafting group meeting with CAAC on 10 July Draft Conclusion SRWG/7/1 endorsed in SRWG/7
A4-8	Robert Witzen, All	to run new VHF COM simulations	End-2023	Open		To be conducted with required raw data submission from States/Administration	
A5-2	ICAO	to host a regional WRC-23 preparatory meeting upon coordination with ICAO HQ after lifting of travel restriction.	31/12/2022 13-14 Feb 23	Open Closed			
A5-3	ICAO	to resolve firewall query of Australia for FF installation and use.		Closed			Already replied during report
A5-4	ICAO	to inform ICAO HQ to consider the feasibility incorporating terrain data into future version of Frequency Finder	SRWG/7	Open Closed			
A5-5	ICAO, India, Thailand, China, Japan, Mr. Robert Witzen	ad-hoc group led by India to further explore the issue of 50 kHz channel spacing in the frequency band 108-117.975 MHz for ILS (LOC)/VOR operations and provide the inputs to SRWG/6. To coordinate with Japan to participate in ad-hoc group.	31/03/2022 SRWG/7	Open Closed			Completed with the paper from India.
A5-6	ICAO	to take appropriate follow up action to improve the awareness on the potential of emerging technologies and the necessity to consider the development of software tool like Frequency Finder to support the frequency assignment planning at regional office in future.	SRWG/7	Open On-going			Currently a new technology implemented in FF is using GBAS/VDB Ongoing studies in NSP and FSMP are on LDACS in the DMEband
A5-10	ICAO	to conduct a in-person workshop for Frequency Finder after new release of FF along with online course proposed by ICAO HQ for new release of FF is available	SRWG/7 Tentatively October 2023	Open			Has a Workshop been planned? A workshop F2F is necessary as part of the User Acceptance Test.

SRWG/8
Appendix A to WP/11

Reference	Who	What	Due date	Status	Completed on	Result	Comment
A6-1	ICAO, SRWG	Recommended to undertake an analysis on VHF COM simulation in 3 - 5 years from now (2025-2028) to assess the severity of the congestion	2025-2028	Open			
A6-2	ICAO	Review the registered frequencies from the simulation conducted in 2016 in the Frequency Finder, and remove those temporary frequencies in the Frequency Finder in previous simulation service	SRWG/7	Open Closed			
A6-3	ICAO	Establish an ad-hoc group (in offline mode through email list) to review the VHF COM Frequency Allotment Plan for APAC in terms of effective use of frequencies in the region, including the review of non-safety critical frequency use. (superceded by A7-1)	SRWG/7	Closed (superceded by A7-1)			
A6-4	ICAO	Publish questionnaire for APAC states for possible introduction of 50 kHz channel spacing in the APAC region via State Letter from ICAO APAC Regional Office (follow up of A5-5)	SRWG/7	Open Closed			
A6-5	ICAO	Probable augmentation of the Frequency Finder tool to incorporate indication to States to coordinate or not to coordinate	SRWG/7	Open			
A6-6	China, ICAO	To summarize the revised planning principle/criteria in the format used in WP04 of SRWG/1	SRWG/7	Closed (Incorporated into Guidance Material)			
A6-7	ICAO	State Letter on updated Guidance Material to invite APAC States for review and comments (Follow up of A4-7) (Superceded by A7-2)	SRWG/7	Open Closed			

SRWG/8
Appendix A to WP/11

Reference	Who	What	Due date	Status	Completed on	Result	Comment
A5-9 A6-8	ICAO	Administrations of Member States in APAC region would take proactive measures (necessary follow-up actions) in line with FSMP at national and regional level, to support CAAs work with National telecommunication regulators to prevent and monitor any impact of 5G to Radio Altimeters (avoid the future safety issues on radio altimeter due to 5G implementation).	SRWG/7	Open On-going			HQ SL: Ref.: SP 74/1-21/22, 25 March 2021, Subject: Potential safety concerns regarding interference to radio altimeters
A6-3 A7-1	China as Rapporteur and Mr Robert Witzgen as Advisor with participation from volunteering States/Administration, ICAO	Ad-hoc Expert group led by China to address issues identified in current frequency allotment plan. Tasks of this group: - Study the allotment plan; - Analyze the real use of allotment registered in FF; - Understand the current situation; - Identify existing issues and rooms for improvement; - Develop suggestions in both technical and administrative perspectives; - Explore the potential in reallocating sub-bands/pools; - Produce a survey on the usage of TIBA in the Region; and - Review content of Guidance Material (as discussed in WP08).	SRWG/8	Open			
A7-2	ICAO	After circulating to APAC States for review of Guidance Material, ad-hoc group to review virtually the material	CNS SG/27	Open			
A7-3	Indonesia as Rapporteur with participation from volunteering States/Administration, ICAO	Ad-hoc group rapported by Indonesia to share the experience in this Region on handling HF resource utilization and provide recommendations, produce a survey on the usage of HF in the Region, review eANP Vol II relevant tables, review outcomes from former ICAO meetings, and suggestions to Agenda Item 1.9 in WRC-23 if deemed necessary.	SRWG/8	Open			