

**Agenda Item 3:** Review the TOR and action items**REVIEW OF TOR AND ACTION LIST**

(Presented by Secretariat)

**SUMMARY**

This paper presents the development and achievements made in APAC Region since SRWG/4, and the TOR with 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 with 8 participants from 5 States
- SRWG/2 12-14 May 2015 in Bangkok with 17 participants from 9 States
- SRWG/3 31 May - 02 June 2016 in Bangkok with 11 participants from 7 States
- SRWG/4 9-10 June 2020 in VTC, with 43 participants from 11 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 Webconference 4 02 July 2015, 8 participants from 5 States
- SRWG Webconference 5 18 February 2016, 6 participants from 5 States

1.2 The Fourth Meeting of Spectrum Review Working Group (SRWG/4) proposed a revised TOR and updated the action list. The papers and report of SRWG/4 can be found at <https://www.icao.int/APAC/Meetings/Pages/2020-SRWG4.aspx>

**2. DISCUSSION**

2.1 One of the main outcomes of the SRWG/4 was to make revision of the TOR. The keynote for this revision is to conduct simulation on VHF COM frequency assignment and expand its scope of work to cover Navigation systems with highlight on GBAS implementation.

2.2 The CNS SG/24 meeting adopted the proposed revision by SRWG/4 through following Decision:

**Decision CNS SG/24/9 (SRWG/4/4) – Revision of the Term of Reference of the SRWG.**

*That, the revised Terms of Reference provided in **Appendix J** to the Report be adopted.*

2.3 The adopted TOR by CNS SG/24 is provided in **Appendix A** to this paper.

2.4 SRWG/4 updated action list is provided to this paper in **Appendix B**. The secretariat and concerned States, with strong support from Mr. Robert Witzten, have carried out necessary follow-up with various action items.

**3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) review the TOR of SRWG provided in **Appendix A**;
- b) review and update the Action List provided in **Appendix B**; and
- c) discuss any relevant matters as appropriate.

-----

**REVISED TERMS OF REFERENCE OF  
ASIA AND PACIFIC  
SPECTRUM REVIEW WORKING GROUP (APAC SRWG)**

Consists of objectives and deliverables as follows:

**The Objectives of the APAC SRWG are to:**

- (a) conduct regular spectrum capacity and requirements assessment for the APAC Region to accommodate current operational requirements and future implementation of aeronautical communication and navigation system as stipulated in the Global Air Navigation Plan (GANP);
- (b) develops an approach, supported by new tools and criteria being introduced at ICAO global level, to enhanced possibilities of frequency assignments for communication (VHF air-ground communication) and navigation system (ILS, VOR, DME and GBAS/VDB);
- (c) develop and review a high-level implementation plan and guidance material(s) for States/Administrations in the APAC region to implement the frequency assignments in a coordinated manner with ANSP, CAA and national frequency Authorities to satisfy future operational needs or the introduction of new technologies, with emphasis on communication and navigation systems, till 2030; and
- (d) **be** based on the above, develops recommendation(s) to address the future operational needs and current limitations.

**Deliverables to meet the Objectives:**

- (a) Progress report to APANPIRG CNS Sub-Group addressing progress on the deliverables;
- (b) Requirement/Capacity Assessments as necessary;
- (c) High-level frequency assignment plan and Guidance Material(s) for communication (VHF air-ground communication) and navigation systems (ILS, VOR, DME and GBAS/VDB) until 2030; and
- (d) Recommendation(s) on solutions to current limitation and future operational needs.

**Timeframe for Deliverables:**

The timeframe for the review of the deliverables by APANPIRG CNS Sub-Group are as follows:

Deliverable (a) – from 2020 onward;

Deliverable (b) – from 2020 onwards;

Deliverable (c) – first guidance material in 2022; and

Deliverable (d) – from 2020 onwards (recurring deliverable(s)/based on the outcome of (b) and (c))

**Meeting:**

The APAC SRWG shall convene annually with at least one face-to-face meeting per year, which is supplemented by teleconference meetings (e.g. WebEx) as appropriate.

**Membership:**

All APAC member States/Administrations providing ANS in the Asia and Pacific Regions. APAC members should nominate Subject Matter Experts from Civil Aviation Authorities, ANSPs, and other organizations preferably experts involved in aeronautical frequency and/or spectrum management to participate in the Working Group.

The Working Group would also invite representatives of International Organizations recognized by the ICAO Council as representing important civil aviation interests, to participate in its work in a consultative capacity.

-----

SRWG/4  
Appendix D to the Report

Reference	Who	What	Due date	Status	Completed on	Result	Comment
A 2-4	Robert Witzten	to propose a DOC for AOC	14-Oct-16	Closed		Implemented in FF	
A 2-7	All	to check consistency between global database and frequency list 3	on going			Information in original Frequency List3 now kept and updated in FF	
A 3-1	Robert Witzten	to run new simulations in 2017 or 2018 if the captured operational needs have significantly increased.	20-May-18	Cancelled			
A 3-2	All	consider if options for coordination of classified VHF assignments are practicable	14-Oct-16	Closed			Not practical in the region.
A 3-3	All	States/Administrations to consider which backup frequencies currently assigned they can release	14-Oct-16	Closed			Not practical in the region.
A 3-4	All	States/Administrations to try and use the backup frequencies template and propose improvements	14-Oct-16	Closed			Not practical in the region.
A 4-1	Robert Witzten, Australia, ICAO	Validate solution of Common Traffic Advisor Frequency (CTAF) with Frequency Finder	14-Aug-20	CLOSED	01-Jul-20	CTAF requirements implemented with FF and data updated as well.	
A 4-2	Robert Witzten, Indonesia, Philippines, ICAO	Issues identified in using Frequency Finder and the interference of Frequency 124.9 MHz.	30-Jun-20	CLOSED	25-Jun-20	FF04R version installed. Issues explained on 25 June 2020 via VTC demonstration. 124.9MHz reassigned.	
A 4-3	Robert Witzten, China, Hong Kong China	Explore spectrum capacity to accommodate GBAS VDB in busy airport	30-Mar-21	CLOSED		VDB spot analysis in HK and in Japn conducted	followup VTC on 3 July and 9 July
A 4-4	All	Experience sharing on Frequency Finder use	30-Mar-21	Open		In progress	
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-21	Open		In progress	
A 4-6	ICAO	Frequency Finder workshop on COM module, and new NAV Module (Mode S SSR II Code module as necessary).	30-Mar-21	Open		Under coordination subject to the pandemic situation	
A 4-7	All, Robert Witzten	Creat 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.	30-Mar-22	Open		CAAC volunteered to share a draft and lead the adhoc group	1.follow up VTC on 3 July. 2. Ad hoc drafting group meeting with CAAC on 10 July
A4-8	Robert Witzten, All	to run new VHF COM simulations	20-May-21	Open		To be conducted with required raw data submission from States/Administration	