



International Civil Aviation Organization

**SEVENTEENTH MEETING OF THE
COMMUNICATIONS/NAVIGATION/SURVEILLANCE
SUB-GROUP (CNS SG/17) OF APANPIRG**

Bangkok, Thailand, 13 – 17 May 2013

Agenda Item 9: Review and updates

9.3) Review TOR of CNS SG and other contributory bodies

**TERMS OF REFERENCE OF THE CNS SUB-GROUP AND OTHER
CONTRIBUTORY BODIES**

(Presented by Secretariat)

SUMMARY

This paper presents the Terms of Reference (TOR) for review and TOR of other contributory bodies relevant to the CNS SG for reference.

1. INTRODUCTION

1.1 APANPIRG/22 established new structure of its contributory bodies and adopted TOR of its sub-groups based on the report of APANPIRG Contributory Bodies Structure Review Task Force (ABSRTF) meeting held in May 2011. APANPIRG/23 also decided to continue the sequence number of the SGs meeting. APANPIRG/24 held in June 2014 noted the recommendation of the SG for APANPIRG to provide some guidance on the delegation of its power to the SG particularly with reference to the adoption of regional guidance material in the own respective areas. However, APANPIRG/24 decided to make no changes.

1.2 The new structure and the approved TORs for the APANPIRG Sub-groups has become effective from 2013 meeting year and is subject to further review in 2016.

2. DISCUSSION

2.1 The meeting is invited to review the Terms of Reference of CNS SG effective from 2013 which is provided in **Attachment 1** to this paper.

2.2 The meeting is invited to note the latest TOR of ADS-B Study and Implementation Task Force provided in one of the Appendices to WP23.

2.3 Current TORs or proposed TOR of ACSICG, ADS-B SEA/BOB Working Group, CRV Task Force and Spectrum Review Working Group are provided in **Attachment 2** to this paper.

3. ACTION REQUIRED BY THE MEETING

- 3.1 The meeting is invited to note information provided in this paper and is expected to:
- a) review the Terms of Reference of the CNS Sub-group provided in **Attachment 1**.
 - b) note and review if necessary the Terms of Reference of the contributory bodies relevant to CNS Sub-Group provided in **Attachment 2**.

TERMS OF REFERENCE OF CNS SUB-GROUP

- 1) Ensure continuous and coherent development of the ASIA/PAC Regional Air Navigation Plan in the CNS field in accordance with the Global Air Navigation Plan and Global Aviation Safety Plan.
 - 2) Review, identify and address deficiencies that impede the implementation or provision of efficient CNS services in the ASIA/PAC Region.
 - 3) Monitor CNS systems research and development, trial and demonstrations in the fields of CNS and facilitate the transfer of this information and expertise between States.
 - 4) Make specific recommendations and guidance materials aimed at improving CNS services by the use of existing procedures and facilities and/or through the evolutionary implementation of CNS/ATM systems.
 - 5) Review and identify inter-regional and intra-regional co-ordination issues in the field of CNS, harmonize and recommend actions to address those issues.
 - 6) Ensure CNS environmental initiatives are consistently identified and progressed, and report outcomes from CNS environmental initiatives.
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REVISED TERMS OF REFERENCE FOR ACSICG

Name and Terms of Reference

Name: “ATN Implementation Coordination Group (ATNICG)” be replaced by “Aeronautical Communication Services Implementation Co-ordination Group (ACSICG)”

Terms of Reference (TORs)

Complete implementation of Asia and Pacific (APAC) Aeronautical Communication Network (ATN) and ensure the underlying communications backbone continues to support the evolving ICAO operational requirements for the exchange and management of aeronautical information and data.

Composition

The Group will be composed of experts nominated by ICAO member States/Administrations in the Asia and Pacific Regions.

Reporting

The Group will present its report to APANPIRG through the CNS Sub-group.

**Common Regional Virtual Private Network (VPN) of
Asia/Pacific Air Navigation Planning and
Implementation Regional Group (APANPIRG) (APANPIRG CRV TF)**
(Proposed by CRV TF/1 meeting)

TERMS OF REFERENCE

1. Background

The establishment of APANPIRG CRV TF was proposed by a number of States at the Eighth meeting of Aeronautical Communication Network Implementation Co-ordination Group (ATNICG) and the Twenty Fourth meeting of APANPIRG, as a dedicated task force to study regional virtual private network (VPN) and develop a detailed proposal by January 2016. The APANPIRG CRV TF was formally established in accordance to APANPIRG Decision (24/32) (Bangkok, Thailand, 24-26 June 2013).

2. Terms of Reference

In order to address the common VPN issues, the following activities are to be developed by the APANPIRG CRV TF:

- a) Develop and propose to the APANPIRG a multinational agreement proposing the organizational policies and procedures for managing the regional network including inter-regional coordination;
- b) Study and propose to the APANPIRG the concept of operation for common VPN for APAC Region including cost-benefit consideration;
- c) Develop the RFI to be distributed to interested service providers and analyze questions/information received from RFI;
- d) Develop the Request For Proposal (RFP) for common VPN for APAC Region and evaluate/select the best proposal; and
- e) Develop the procedures for commissioning common VPN for APAC Region.

2. Work Programme

See attachment.

3. Working Methods

- a) APANPIRG CRV TF Work Programme should present their activities in terms of objectives, responsibilities, deliverables and timelines;
- b) APANPIRG CRV TF will avoid duplication of work within the regional working group and maintain close coordination among the existing entities to optimize the use of available resources and experience;
- c) APANPIRG CRV TF may designate, as necessary, ad-hoc groups to work on specific topics and activities; all tasks and activities should be clearly defined by time and deliverables;
- d) APANPIRG CRV TF should co-ordinate and advance its works as follows to maximize efficiency and reduce costs: and
 - conduct work via electronic written correspondence;
 - conduct work via phone and teleconference calls; and
 - hold meetings when necessary and based on the Work Programme activities
- e) APANPIRG CRV TF will report the progress of assigned tasks to APANPIRG through ACSICG and CNS Sub Group of APANPIRG.

4. Membership

- APANPIRG CRV TF-1 experts: Australia, Bangladesh, Hong Kong China, Fiji, India, Japan, Malaysia, Myanmar, Singapore, Thailand, USA; and
- Those experts nominated by the other APAC States.

ICAO will act as Technical Adviser to the APANPIRG CRV TF.

5. Rapporteur

Mr. Chonlawit Banphawatthanarak from Aerothai

TERMS OF REFERENCE

SOUTHEAST ASIA AND BAY OF BENGAL SUB-REGIONAL ADS-B IMPLEMENTATION WORKING GROUP

(Adopted by ADS-B SEA/BOB ADS-B WG/7 in Nov. 2011)

Terms of Reference

APANPIRG18 Conclusion 18/38 agreed to the establishment of a sub-regional ADS-B implementation Working Group in the South-East Asia area (SEA ADS-B WG) by the end 2007 to develop the *terms of cooperation* and an *implementation plan* for near-term ADS-B applications in the sub-region.

[APANPIRG/22 Decision 22/34 agreed to rename the Southeast Asia Sub-regional ADS-B Implementation Working Group to “South East Asia and Bay of Bengal Sub-regional ADS-B Implementation Working Group” and tasked the new Working Group to develop a revised Terms of Cooperation and work programme in the sub-regions.](#)

The outcome of the ADS-B Working Group will report to APANPIRG through the ADS-B Study and Implementation Task Force.

The SEA/BOB ADS-B WG shall

- (a) Develop **Terms of Co-operation** which will include :
 - establishing model documents for possible use by States when :
 - Agreeing to share ADS-B data, and DCPC (such as VHF radio voice communication) capability between adjoining States for various ADS-B applications (including a sample letter of agreement); or
 - Establishing ADS-B avionics fitment mandates
 - identifying optimum coverage for ADS-B ground stations and associated VHF radio voice communication in the sub-regional FIR boundary areas.
- (b) Develop an **implementation plan** for near term ADS-B application which will delivery efficient airspace and increased safety on a regional basis that include :
 - schedule and priority dates to bring into effect ADS-B based services taking into account;
 - Timing of any equipage mandates.
 - Timing of any ATC automation upgrades to support ADS-B.

- Timing of commissioning of any ADS-B data and associated VHF radio voice communication facilities.
 - consideration of major traffic flows
- (c) Coordination for implementation of the plan

Composition: The Group will be composed of experts nominated by States in the Sub-region including: Australia, [Bangladesh](#), Brunei Darussalam, China, Hong Kong China Cambodia, [India](#), Indonesia, Malaysia, [Maldives](#), [Myanmar](#), [Nepal](#), [Pakistan](#), Philippines, Singapore, [Sri Lanka](#), Thailand, Vietnam, IATA and CANSO.

Reporting: The Group will present its report to ADS-B Study and Implementation Task Force.

DRAFT

SPECTRUM REVIEW WORKING GROUP (SRWG)

(Proceeded at the 1st meeting of SRWG in June 2014)

Terms of Reference

In order to investigate the need for an increase in available VHF COM channels and, on the basis of the outcome, to develop recommendations for further consideration by the CNS SG, the APAC **SPECTRUM REVIEW WORKING GROUP:**

- develops an approach supported by new tools & criteria being introduced at ICAO global level, since they are likely to bring enhanced possibilities of VHF frequencies assignments;
- delivers a high level implementation plan for States/Administrations in the APAC region to implement the VHF assignments in a coordinated manner with ANSP, CAA and national frequency Authorities;
- proposes improvements to the existing regional VHF frequency assignment process based on the ICAO Global Spectrum Management tool, ICAO 9718 Volume II Handbook provisions and current coordination issues;
- develops an approach to transition to the new ICAO global database; and
- based on the above, develops recommendations for CNS SG about how to address the future operational needs and current limitations in VHF voice communications, aiming at avoiding introduction of 8.33 kHz spacing in the APAC Region for as long as practicable.
