



International Civil Aviation Organization

THE SECOND MEETING OF AERONAUTICAL COMMUNICATION SERVICE (ACS) IMPLEMENTATION CO-ORDINATION GROUP OF APANPIRG (ACSICG/2)

Bangkok, Thailand, 20 - 22 May 2015

Agenda Item 2: Review outcome of APANPIRG/25 on Implementation of Aeronautical Communication Facilities and Services

OUTCOME OF APANPIRG/25 ON AERONAUTICAL COMMUNICATION IMPLEMENTATION

(Presented by the Secretariat)

SUMMARY

This paper reviews the outcome of APANPIRG/25 on aeronautical communication and works accomplished by the First Meeting of ATN Implementation Co-ordination Group of APANPIRG and the Eighteenth CNS Sub-group meeting.

1. Introduction

1.1 APANPIRG/25 meeting held in September 2014 in Malaysia reviewed the outcome of the First Meeting of the Aeronautical Communication Service Implementation Co-ordination Group of APANPIRG (ACSICG/1) and other information on aeronautical communications services (ACS).

1.2 The report of First Meeting of ACSICG also reviewed by CNS SG/18 meeting held in Beijing, China in July 2014.

2. Discussion

2.1 CNS SG/18 and APANPIRG/25 meetings noted the outcome of CRV Task Force and ACSICG/1 meeting. APANPIRG/25 took following actions on recommendations from ACSICG/1 and CNS SG/18 meetings:

Follow-up to AN-Conf/12 Recommendations

2.1.1 The responses to APANPIRG/24 Conclusion 24/4 and Decision from 24/5 regarding recommendations in following up AN Conf/12, comments from APAC States/Administrations, ADS-B SITF/13 and ACSICG/1 meetings were consolidated into a single recommended action by the CNS SG/18 meeting. The meeting reviewed the consolidated response from CNS SG/18 and ATM SG/2 (flimsy 2) and adopted the following Conclusion:

Conclusion APANPIRG 25/27 – AN-Conf/12 Recommendations

That, the regional response to the Recommendations of the AN-Conf/12, in APANPIRG/25/WP09 **Appendix A and flimsy 2** be adopted as guidance for consideration by the States.

(A number of actions need to be further followed up by ACSICG)

2.2 Based on the draft Conclusion from ACSICG/1 Meeting regarding updated forms for registration of AMHS address information, CNS SG/18 meeting endorsed the benefit of using the latest forms associated with the AMC database and the latest Network Service Access Point (NSAP) addressing plan for entering NSAP addresses. The meeting adopted the following Conclusion (CNS SG18/4):

Conclusion APANPIRG 25/28 – AMHS Naming Registration Procedure and Form

That, the States/Administrations be urged to follow the AMHS Naming Registration procedure as follows:

- a) The AMC Network Inventory Form and the Major Change Form - Pro forma for modification of AMHS MD Identifier and/or Addressing Scheme, provided in the APANPIRG/25/WP09 **Appendix E1 and Appendix E2** be used;
- b) The Asia/Pacific AMHS Naming Registration Form no longer be used; and
- c) For NSAP addresses in AMC Information Form, insert a value of “91” for byte 5 of an NSAP address following instruction given in the Third Edition of the ASIA/PAC ATN Network Service Access Point (NSAP) Addressing Plan.
(Administrations and States were encouraged to use the new identical form for registration)

2.3 CNS SG/18 meeting further updated the FASID CNS Table CNS 1A regarding AFTN Planning and the tables CNS 1B and CNS 1C. APANPIRG/25 adopted developed the draft Conclusion 18/5 which was adopted by the meeting as follows:

Conclusion APANPIRG 25/29 – Proposal for Amendment to the regional Air Navigation Plan FASID CNS Tables

That, Table CNS 1A, Table CNS 1B and Table CNS 1C of Regional ANP (Doc 9673 Vol. II) be amended in accordance with the established procedure based on information provided in APANPIRG/25/WP09 **Appendices F, G and H.**

2.4 ACSICG/1 discussed the issue on SITA's AMHS Gateway which was planned to be operational late 2014 and ready for AMHS interconnections with ANSPs as necessary in replacement of the current AFTN low speed connections, in cooperation with ICAO EURNAT Region AFSG (Aeronautical Fixed Services Group). It was considered necessary to remind Administrations in APAC Region to take any required action to coordinate with SITA for upgrading the AMHS interconnection. Accordingly, APANPIRG/25 adopted the following Conclusion endorsed by CNS SG/18 meeting:

Conclusion APANPIRG 25/30 – Change of AMHS/SITA Interconnection Architecture

That, States/Administrations concerned in the APAC Region consider coordination with SITA for upgrading those existing interconnection between ANSPs and SITA using AMHS/SITA Interconnection Architecture Document provided in APANPIRG/25/WP09 **Appendix I.**

2.5 It was noted that the CRV TF first meeting was held at ICAO APAC Regional Office in Bangkok, Thailand in December 2013 attended by 33 participants from APAC States, Denmark (PENS Steering Group Chairman), and Industry (KDDI, Singtel, SITA and Starhub). CRV TF/2 meeting was held on 12 May 2014 and attended by 31 participants

2.6 The meeting commended the progress of CRV Task Force which delivered the following draft Documents: i) a draft Management Service Agreement (MSA) to be passed between Pioneer States and ICAO for funding the assistance to the management of procurement of CRV services, ii) the CRV concept of operations CONOP, iii) the Cost Benefit Analysis -1st iteration, iv) the user requirement template and associated guidance, and v) a Request for Information. Other important materials would need to be further developed including the Document of Agreement (DOA) that would allow to set up and manage an Operations Oversight Group (OOG) for stage 2 and documents for the Sealed Tender process.

2.7 The result of the CBA survey conducted by ICAO Regional Office in Q1 2014 and Cost Benefit analysis performed by the CRV Task Force indicated was provided to the meetings. In this regard, APANPIRG/25 meeting adopted following Conclusion:

Conclusion APANPIRG 25/31 – CRV (Common Regional VPN Task Force) Cost Benefit Analysis

That, the 1st iteration of the CRV Cost Benefit analysis provided in APANPIRG/25/WP09 **Appendix J** be adopted and distributed to States/Administrations for their reference.

2.8 The meeting adopted the TOR of the CRV Task Force developed by the ACSICG/1 and endorsed by CNS SG/18 meeting:

Decision APANPIRG 25/32 – Terms of Reference of the APAC Aeronautical Common Regional VPN Task Force (CRV TF)

That, the Terms of Reference of the APAC Aeronautical Common Regional VPN Task Force (CRV TF) at APANPIRG/25/WP09 **Appendix L** be adopted.

2.9 The meeting was informed about the current version of the Concept of Operations (CONOPS) of CRV, that would be a Virtual Private Network (VPN) using an existing commercial network to provide service for Air Traffic Service Message Handling System (AMHS) and other IP-based services. The CRV CONOPS was developed with contribution from member of the CRV Task Force and would be further refined with the outcome of Request For Information (RFI). It was also recalled that an OOG concept of operations was being developed which would constitute a good basis for the policies and implementation plan for stage 2. As a result the meeting adopted the following Conclusion:

Conclusion APANPIRG 25/33 – CRV Concept of Operations (CONOP)

That,

- a) the initial Concept of Operation (CONOP) for the APAC CRV provided in APANPIRG/25/WP09 **Appendix M** be adopted as version 1; and
- b) States/Administrations be urged to consider the initial Concept of Operations for the APAC CRV.

2.10 It was noted that for States willing to join at stage 2, they could do so only after contract award to the selected Communication Service Provider, which is planned for mid 2016 as per CRV planning (WP09, flimsy 1, Appendix C2).

2.11 The meeting was informed that total estimated cost of ICAO Technical Co-operation Bureau (TCB)'s assistance to procurement was USD109300. Noting that the share to be paid by each individual party would be determined by the actual number of Pioneer States having signed, and that the MSA indicates the total estimated project cost to be divided on an equal basis, the meeting

recommended that States intending to be CRV Pioneer States plan a same provisional budget of USD20,000 with the view of funding on an equal basis the cost of TCB services in Stage 1 of the CRV project, including contingencies. The Secretariat would notify States/Administrations concerned through a letter. Further updates in this regard will be from CRV Task Force under agenda item 6.

2.12 In view of the foregoing, APANPIRG/25 amended and adopted the following Conclusion which was endorsed by the CNS SG/18 meeting:

Conclusion APANPIRG 25/34 – Aeronautical Common Regional Virtual (CRV) private network in APAC stage I

That,

- a) Considering the number of States/Administrations (Australia, Fiji, France, Hong Kong China, India, Japan, Macao China, Malaysia, New Zealand, Philippines, Singapore, Thailand, and USA) that expressed interest to date (10 September 2014) to be Pioneer Parties and sign the MSA;
- b) Considering the favorable Cost Benefit for CRV operations as a major enabler for achieving GANP 4th edition roadmap;
 - i) The Management Service Agreement (MSA) provided in APANPIRG/25/WP09, flimsy 1, Appendix B be adopted, pending some finer adjustments;
 - ii) States/Administrations in APAC Region which have not expressed interest be urged to become Pioneer Parties before 14 November 2014 or join for Stage 2;
 - iii) States/Administrations sign the MSA before 15 December 2014 and transfer the necessary funds to ICAO TCB for its services before 31 January 2015;
 - iv) CRV Pioneer States be recommended to plan a provisional budget of USD20,000 with the view of funding on an equal basis the cost of TCB services in Stage 1 of the CRV project.

2.13 The CNS SG/18 meeting reviewed and endorsed the latest draft of the Pan Regional APAC/NAT AIDC ICD (Version 0.91). Later Version 0.92 was issued as outcome of Teleconference on 6 August 2014 which is provided in WP09, Appendix O. The ICD was initially developed based on the APAC AIDC ICD Version 3.0 and NAT AIDC ICD Version 1.3.0. It was anticipated that the ICD would likely be adopted by IMG in NAT Region in November 2014 then get NAT SPG agreement

through correspondence by the end of 2014 (already adopted). In view of the foregoing, the meeting adopted following Conclusion:

Conclusion APANPIRG 25/35 – Adoption of Pan Regional ICD for AIDC

That, the Pan Regional ICD for AIDC provided in APANPIRG/25/WP09, **Appendix O**, be adopted as Version 1.0 serving as regional guidance for AIDC implementation in the APAC and NAT Regions.

2.14 Considering the tasks given by NAT SPG through Conclusion 48/28 and APANPIRG through Conclusion 23/20 being completed once the PAN regional ICD for AIDC is adopted by both the regions, the CNS SG/18 meeting agreed that IRAIDC Task Force be dissolved after adoption of the Version 1 of PAN Inter-regional ICD for AIDC by NAT SPG. Accordingly APANPIRG made the following Decision:

Decision APANPIRG 25/36 – Dissolving Inter-regional AIDC Task Force

That, once Version 1 of the PAN Inter-regional ICD for AIDC is adopted by both APAC and NAT Regions, the Inter-regional AIDC Task Force established through NAT SPG Conclusion 48/28 and APANPIRG Conclusion 23/20 be dissolved.

2.15 Noting APANPIRG Conclusion 24/17: AIDC Implementation and Conclusion 24/27: Prioritization of AIDC Implementation to Address LHDs, and the continued incidence of LHDs in the BOB and SCS area, the CNS SG/18 meeting agreed on the terms of reference of an AIDC implementation task force to solve identified problems in an effective manner in the short term and support the achievement of AIDC-related regional targets (phase 1 target for 2015 and prepare implementation of phase 2 target for 2018 as far as practicable) in the mid-term.

2.16 The ATM/SG/2 meeting also noted that it would be beneficial to form a short-term AIDC Implementation Task Force that focused on the South China Sea (SCS) and Bay of Bengal (BOB) and endorsed the following RASMAG Draft Conclusion 19/4: Asia/Pacific AIDC Implementation Task Force. Therefore, the meeting adopted following Decision:

Decision APANPIRG 25/37 – AIDC Implementation Task Force

That, the AIDC Implementation Task Force be established with Terms of Reference provided in APANPIRG/25/WP09, **Appendix D**.
(The first meeting of AIDC Task Force will be held 16-18 June 2015 in Bangkok)

2.17 The meeting was informed that a SIP AIDC Seminar was scheduled for 28-31 October 2014 where an action plan on current issues may be identified and progressed, including those issues linked with interfaces between AIDC and OLDI-based implementations. (The Seminar was held)

2.18 Given the need to minimize the implementation issues with AIDC, the CNS SG/18 meeting noted that involved stakeholders would have to plan their activities concurrently and exchange and coordinate their plan and modalities bilaterally with concerned Administrations to achieve harmonious AIDC implementation in the Region. Bilateral implementation of the PAN Regional ICD would require strict bilateral agreements or Memorandum of Understanding (MOU) on AIDC arrangements and synchronization of technology refresh cycles and maintaining backward compatibility of the automation systems for smooth exchange of AIDC messages. In view of the foregoing, the following Conclusion was adopted by APANPIRG:

Conclusion APANPIRG 25/38 – Harmonization for AIDC Implementation

That, States/Administrations in the APAC Region be urged to share their implementation plans and experiences with concerned States for an expeditious AIDC implementation in a harmonized and timely manner.

2.19 In connection with conclusion 18/12 about adoption of Pan Regional ICD for AIDC and conclusion 18/8 about harmonization for AIDC Implementation, India expressed its concern over the operational issues in the implementation of AIDC with MID/EAST and East African Region. APANPIRG/25 noted that ICAO may consider resolving the inter-regional issues as has been achieved in the case of APAC and NAT Region.

2.20 In following the APANPIRG Conclusions, state letters were issued and distributed to Administrations and States for necessary actions.

3. Action by the Meeting

3.1 The meeting is invited to review the outcome of the APANPIRG/25 and take any further follow-up actions.
