

*International Civil Aviation Organization*



ICAO

**Seventh Meeting of the Asia/Pacific ATS Inter-Facility  
Data-Link Communication Implementation Task Force  
(APA TF/7) of APANPIRG**

Video Conference, 07 – 09 June 2021

**Agenda Item 3:** Sharing of experience on AIDC implementation and update the implementation status

### **UPDATE OF AIDC IMPLEMENTATION STATUS**

(Presented by Indonesia)

#### **SUMMARY**

This paper provides information related to the AIDC implementation status in Indonesia, particularly in Ujung Pandang FIR (Ujung Pandang ACC) with its adjacent Area Control Centers (ACCs) and other relevant matters during the implementation phase.

## **1. INTRODUCTION**

1.1 Ujung Pandang ACC consistently strives to move forward in order to green all AIDC connection with its adjacent units. By far, Ujung Pandang ACC's achievements in AIDC are as follows:

- Implementation with Brisbane ACC;
- Implementation with Manila ACC;
- Implementation with Moresby ACC;
- Tested with Kota Kinabalu ACC;
- Tested with Oakland ACC; and
- Tested with Jakarta ACC.

## **2. DISCUSSION**

### **Ujung Pandang ACC and Brisbane ACC**

2.1 The AIDC implementation between Ujung Pandang ACC and Brisbane ACC has been commenced since July 2017. Ujung Pandang ACC and Brisbane ACC successfully exchange ABI, EST, ACP, MAC, TOC, and AOC messages. The implementation is running well with no significant issue.

**Agenda Item 3**

7-9/03/21

**Ujung Pandang ACC and Manila ACC**

2.2 Ujung Pandang ACC and Manila ACC have conducted operational trial since October 10<sup>th</sup>, 2019 with the EST, ACP, TOC and AOC messages. The operational trial was accompanied by voice coordination.

2.3 After evaluating the trial period, Ujung Pandang ACC and Manila ACC agreed to move forward to fully implement the AIDC exchange and this automatically removed the need of voice coordination.

2.4 Ujung Pandang ACC and Manila ACC has been starting the full implementation of AIDC exchange since December 3<sup>rd</sup>, 2020 and has been finding no significant issue along the implementation.

**Ujung Pandang ACC and Moresby ACC**

2.5 The AIDC trial between Ujung Pandang ACC and Moresby ACC has been started since October 8<sup>th</sup>, 2020. The trial has been running satisfactorily.

2.6 It has been agreed by both parties that the full implementation of AIDC exchange will be commenced on June 17<sup>th</sup>, 2021.

**Ujung Pandang ACC and Kota Kinabalu ATCC**

2.7 Ujung Pandang ACC and Kota Kinabalu ACC had conducted AIDC Technical Coordination Meeting on 9 – 10 July 2019 in Makassar. The aim of the meeting was to evaluate and follow up several testing activities which had been done previously by Ujung Pandang ACC and Kota Kinabalu ACC, determined action plan, and creating the schedule of implementation plan.

2.8 The meeting agreed to conduct AIDC implementation plan which consist of five phases activities, those are:

- **Phase 1** – Interoperability Test (*Done; held on 7 – 8 August 2019*)
- **Phase 2** – AIDC Messages Full (*Done; held on 23 October 2019*)
- **Phase 3** – AIDC Messages Test Selective (*Done; held on 11 March 2020*)
- **Phase 4** – Operational Trial (*was scheduled for Q1-2020*)
- **Phase 5** – Full Operation (*was scheduled for Q4-2020*)

2.9 Unfortunately, operational trial should be delayed as Kinabalu ATCC is still conducting AIDC trial with Singapore ACC which is planned to be finished by the end of June 2021. It has been agreed that AIDC trial between Ujung Pandang ACC and Kinabalu ACC will be initiated as soon as the trial period between Kinabalu ATCC and Singapore ACC accomplished.

**Ujung Pandang ACC and Oakland ARTCC**

2.10 Ujung Pandang ACC and Oakland ARTCC have completed AIDC testing in October and December 2018. The following AIDC messages were exchanged during the testing activities: ABI, EST, ACP, CDN and REJ.

2.11 Based on AIDC testing result, both parties agreed to exchange the following messages: ABI, EST, ACP, and CDN.

The REJ message (as part of the response to the CDN) was successfully accepted by ATM system in Oakland ARTCC, but it could not be processed properly in Ujung Pandang ACC. Therefore, the CDN message was agreed to be applied only one direction from Oakland ARTCC to Ujung Pandang ACC. This issue is under evaluation in Ujung Pandang ACC.

2.12 Ujung Pandang ACC and Oakland ARTCC in coordination to update the current ATS LOCA, and will include AIDC implementation procedure into the ATS LOCA. Target of implementation was planned in 4Q2020.

**Ujung Pandang ACC and Jakarta ACC**

2.13 AIDC testing between Ujung Pandang ACC and Jakarta ACC have been done since November 2020. The exchanged AIDC messages were EST, ACP, LAM and LRM only.

2.14 The AIDC testing is conducted by developing the AIDC software application in Jakarta ACC, which able to receive, process and transmit the AIDC messages as per AIDC ICD. The improvement of the AIDC software application has been done based on AIDC technical testing evaluation result, and also from the ATC's feedback, as user.

2.15 Currently, Ujung Pandang ACC and Jakarta ACC are being fulfilled the requirements to go to the operational trials. Target of implementation is in 4Q2021.

**3. ACTION BY THE MEETING**

- 3.1 The meeting is invited to:
- a) note the information contained in this paper;
  - b) need update from related states, if any; and
  - c) discuss any relevant matter as appropriate.

-----