International Civil Aviation Organization

Fifth Meeting of the Asia/Pacific Air Traffic Management Automation System Task Force (APAC ATMAS TF/5)

Chengdu, China, 5 – 7 June 2024

Agenda Item 7: ATS Inter-Facility Data - Link Communication (AIDC) Implementation Experience by States

AIDC IMPLEMENTATION STATUS IN MANILA FIR

(Presented by Philippines)

This paper presents the updates on the AIDC implementation status in Manila FIR.

1. INTRODUCTION

1.1 To promote a better and efficient air traffic management in the Manila FIR and in response to ICAO Asia-Pacific seamless ATM Program, the Philippines with the current CNS/ATM system continuously promoted AIDC implementation with its neighboring FIRs.

1.2 This paper presents an update of operational AIDC in Philippine ATM Automation System and the status of implementation in Manila FIR.

2. DISCUSSION

AIDC Implementation with the Adjacent FIRs

2.1 Manila ACC conducted a number of AIDC tests using the current Air Traffic Management (ATM) System, TopSky HE, with the neighboring FIRs since 2019. All tests conducted were successful resulting in the implementation of AIDC with Hong Kong, Taipei, Singapore, Ujung Pandang and Oakland.

2.2 Basic AIDC messages such as ABI, EST, ACP, TOC and AOC were being used in the current AIDC implementation.

2.3 The table below shows the adjacent canters that are currently using the AIDC as the mode of transfers of data:

ADJACENT CENTER	**STATUS**		**AIDC MESSAGES**
Singapore	Operational	Implemented Nov. 1, 2019	EST, ACP, TOC, AOC
Hong Kong	Operational	Implemented May 23, 2019	~~ABI,~~ EST, ACP, ~~TOC, AOC~~
Taipei	Operational	Implemented Dec. 05, 2019	EST, ACP, TOC, AOC
Ujung Pandang	Operational	Implemented Dec. 03, 2020	EST, ACP, TOC, AOC
Oakland	Operational	Implemented Nov. 30, 2023	ABI, EST, ACP, TOC, AOC,

2.4 Phase 2 of AIDC operational trial with Singapore was conducted last march 15, 2024. This will include the ABI and CDN as part of the AIDC messages that will be transmitted. Issues on CDN occurs during the trial, hopefully the issues will be resolve by the coming update of the system tentatively by September 2024.

2.5 Though, AIDC has been operational, direct speech circuits were still available for backup.

Tested and AIDC Operational Trial with Adjacent FIRs

2.5 Operational Trials with Kota Kinabalu is currently underway. Should the current operational trial progress, actual implementation of AIDC with the Kota Kinabalu is estimated in the 4th quarter of 2024 (4Q2024).

2.6 Interoperability Test (IOT) has been conducted several times with Ho Chi Minh. Tested thru direct AFTN connection and AMHS via Hongkong Backbone Boundary Intermediate System (BBIS).

2.7. Last AIDC with Ho Chi Minh were successful thru AMHS BBIS, hence, once done with AMHS connection with Ho Chi Minh AIDC implementation will follow.

2.8 Tables below shows the current AIDC test being conducted by Manila FIR

ADJACENT CENTER	DATE/S OF AIDC TESTS/TRIAL		AIDC MESSAGES	RESULT OF TEST/TRIAL	IMPLEMENTATION PLAN
Singapore	Test for Phase 2	March 15, 2024	ABI,CDN, MAC , PAC	ISSUE ON CDN	
Kota Kinabalu	Test	May 21-22, 2019 Oct. 21-22, 2019 Oct. 13, 2021 Oct. 27, 2021 Nov. 02, 2021 Dec. 12-13, 2023	ABI, EST, ACP, TOC, AOC, ~~MAC, PAC~~	Successful	4Q2024
	Operational trial	March 16, 2024 to present	ABI, EST, ACP, TOC, AOC	On-going	
Ho Chi Minh	Test	Oct. 30, 2019 Dec. 14, 2020 - FPL Connection Test June 15-16, 2021 Nov. 10, 2021 - FPL Connection test	ABI, EST, ACP, TOC, AOC	Successful	2Q2025

Plan for AIDC Test with Adjacent FIR

2.9 In August 2021, coordination with JAPAN has been initiated for test trial. It was suggested by JAPAN if Manila is able to connect thru X.25 with version1.0 of AIDC messages. The Philippine is ready to conduct an AIDC test with JAPAN thru Backbone Boundary Intermediate System (BBIS) using AMHS. Currently, Manila and Fukuoka has utilized a direct speech circuits thru CRV network.

3. ACTION BY THE MEETING

The meeting is invited to:

a) note the information contained in this paper; and

b) discuss any relevant matter as appropriate.