International Civil Aviation Organization

THE SECOND MEETING OF ASIA/PACIFIC ATS INTER-FACILITY DATA COMMUNICATION (AIDC) IMPLEMENTATIONTASK FORCE (APA TF/2) OF APANPIRG

Bangkok, Thailand, 16 - 18 March 2016

Agenda Item 5: **Sharing of experience on AIDC implementation plan for use of Pan regional ICD for AIDC and update the implementation status**

ATS INTERFACILITY DATA COMMUNICATION (AIDC) SYSTEMS TEST IN THE PHILIPPINES WITH ADJACENT ACCs

(Presented by Philippines)

SUMMARY

This paper presents the progress of AIDC systems tests in the Philippines with adjacent ACCs.

1. INTRODUCTION

1.1 After the First Meeting of ATS Inter-facility Data Communication Task Force (APA TF/1) and the upgrade of Manila ACC ATM System from Eurocat 200 to TopSky-C with AIDC V2.0 capability, Philippines has been very hopeful to have AIDC implemented.

1.2 Manila ACC commenced AIDC tests with Singapore ACC last July/2015 followed by Taipei ACC on September/2015 and Ujung Pandang ACC on October/2015 and very recently last 10 March 2016, another test with Ujung Pandang ACC was conducted.

1.3 AIDC test results were unsuccessful and were attributed to ATM System software configuration issues. Manila ACC will continue to perform AIDC test with adjacent ACCs after resolving the issues.

2. DISCUSSION

AIDC Test with Singapore ACC

2.1 Singapore used a test platform for the AIDC test with Manila ACC while the latter used a live ATM System. Exchange of AIDC messages is over the existing AFTN connection between Singapore and Manila; and sent and received FPLs were in 2012 format.

2.2 There has been quite a number of tests performed with Singapore ACC. Listed as follows were the issues encountered during the tests.

a) Invalid CRC for LRM. LRM sent by Manila contains invalid value.

b) Unable to perform AIDC test due to FDP transmission base full error. Manila FDP cannot send AIDC messages and traced to be caused by FPL format issue between fields 18 and 19.

c) Continued invalid CRC issue that was caused by wrong calculation of another component of FDP software.

d) Missing field 18 in ABI message sent by Manila.

e) Multiple ABI sending issue that was caused by the Manila ATM System configuration issue related to sectorization.

2.2   Latest software fix/patch for Manila FDP has been installed on 8 March 2016 and ready for another test.

AIDC Test with Taipei ACC

2.3   Taipei used a test platform for the AIDC test with Manila ACC while the latter used a live ATM System. Exchange of AIDC messages was over the existing AFTN connection between Taipei and Manila; and sent and received FPLs were in 2012 format.

2.4   Listed as follows were the issues encountered during the tests.

a) Manila ATM System's FDP failure to respond accordingly to AOC sent by Taipei ACC. FPL status did not update at Manila end. AOC received from Taipei was not correlated to the flight.

b) Invalid CRC for LRM. LRM sent by Manila contains invalid value.

2.5   Following the installation of the latest software fix/patch for Manila FDP last 8 March 2016, these issues are expected to be addressed.

AIDC Test with Ujung PandangACC

2.6   Ujung Pandang used a test platform for the AIDC test with Manila ACC while the latter used a live ATM System. Exchange of AIDC messages was via Singapore AFTN connection; and sent and received FPLs were in pre-2012 format.

2.7   Listed as follows were the issues encountered during the tests.

a) In the first AIDC test last 19 October 2015, the morning session test was successful for flights inbound Manila but in the afternoon session Manila ATM System was not able to update the FPL status after receiving AOC from Ujung Pandang ACC.

b) Following a recent FDP software fix/patch installation, another AIDC test was performed last 21 October 2015, ABI and EST messages sent by Ujung Pandang ACC were not processed by Manila ATM System but received at FDPs. It was during this test when multiple ABI sending [by Manila ACC] issue was also encountered.

    c) After the latest ATM System reconfiguration and FDP software patch/fix installation last 8 March 2016, another AIDC test was performed. Ujung Pandang ACC reported problem in processing of messages sent by Manila. The issue is pending analysis and discussion at both ends.

Planned AIDC Test with Hong Kong CAD

2.8   The outstanding issues are planned to be resolved before the agreed AIDC tests with Hong Kong CAD on 21 – 22 April 2016.

3.   ACTION REQUIRED BY THE MEETING

3.1   The meeting is invited to:

    a) note information contained in this paper;

    b) recognize the support provided by adjacent ACCs during the AIDC tests with the Manila ACC; and

    c) discuss relevant matters as appropriate.

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