International Civil Aviation Organization

MIDANPIRG/20 and RASG-MID/10 Meetings

(Muscat, Oman, 14-17 May 2023)

Agenda Item 6.6:　　　CNS

INITIATIVES IN IMPLEMENTING AUTOMATED DATA EXCHANGE SYSTEM IN OMAN

(Presented by Sultanate of Oman)

SUMMARY

This paper presents the CAA Oman's initiations in the implementation of Automated Data Exchange systems like On-Line Data Interchange (OLDI) and ATS Interfacility Datalink Communication (AIDC) in Oman.

REFERENCES

ICAO Doc 9750- Global Air Navigation Plan, Ed. 6, 2020

ICAO MID Region Guidance for the Implementation of AIDC/OLDI, Doc 006, Ed. 1.2, 2019

EUROCONTROL Guidelines for On-Line Data Interchange (OLDI), Ed. 1.1, 2020

CANSO Best Practice Guide for ANSPs: Automation Interface Between Flight Information Regions, 2016

1.　　INTRODUCTION

1.1　　ICAO and its regional offices have encouraged its member States to implement Automated Data Exchange (ADE) as part of Global Air Navigation Plan (GANP) under ASBU framework.

1.2　　ADE enhances safety and efficiency of Cross-FIR flight operations by reducing the operational deficiencies related to ATC readback and hear-back, coordination, flight progress updates and transfer of control between neighbouring ATS units.

1.3　　AIDC and OLDI are the ADE tools recognized regionally and globally to coordinate flight data between ATS units and both satisfies the requirements of basic coordination of flight notification, coordination and transfer of control.

1.4　　Thus, by implementing ADE, Oman CAA anticipates the reduction in ATC workload, read-back/hear-back errors and gross navigational errors caused by manual ATC coordination, and to grasp the benefits of ADE and to meet the global and regional obligations, CAA Oman is giving proper attention to implement ADE system in Oman.

2.   DISCUSSION

2.1   ICAO MID office is playing key facilitating role within the region and developed guidance to implement the AIDC/OLDI within the region in more efficient and harmonized way.

2.2   To align with regional plan and initiatives, CAA Oman is committed to implement ADE in proper harmony with the authorities of neighbouring FIRs, and has planned and executed activities as follows:

OLDI Implementation

2.3   OLDI implementation checklists was developed and agreed, and activities like feasibility studies, technical testing, safety risk assessment, operational documentations, etc. were performed accordingly.

2.4   OLDI connection with UAE ACC were tested as planned, and successfully implemented since 2018.

2.5   Preparations with regard to OLDI connections with Jeddah ACC will be completed in near future and will possibly be implemented by July 2023.

AIDC Implementation

2.6   AIDC implementation plans to connect Muscat ACC with Mumbai and Karachi ACCs were developed and activities like feasibility studies, technical testing, safety risk assessment, operational documentations, etc. were planned but could not be formally implemented.

2.7   AIDC connection between Muscat and Mumbai ACCs were tested three times in Sep 2019, Mar 2021 and Feb 2023 but were not successful due to message processing problems.

2.8   Any formal activities with regard to testing of AIDC connection with Karachi is not yet initiated.

AFTN connection for data exchange

2.9   AFTN connection between Muscat and Tehran ACCs was conceptualized and some in-house activities were conducted, including the development of planned safety activities but the plan has not yet been formalized.

3.   ACTION BY THE MEETING

3.1   The Meeting is invited to:

   a) note the information contained in this paper;

   b) share the State experiences and lessons learned in implementing the ADE; and

   c) discuss any relevant matters as appropriate.

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