



International Civil Aviation Organization

MID ATS MESSAGING MANAGEMENT CENTRE STEERING GROUP

Eighth Meeting (MIDAMC STG/8)
(Amman, Jordan, 1-2 May 2023)

Agenda Item 3: AMHS Planning and Implementation Matters

AMHS UPGRADE IN JORDAN

(Presented by Jordan)

SUMMARY

This information paper presents the AMHS implementation status in Jordan and plan for full migration.

Action by the meeting is at Paragraph 3.

1. INTRODUCTION

1.1 Jordan AMHS system has been in operation since 2008. Amman COM Center implemented AMHS in 2009 to ensure seamless and interoperable Aeronautical Ground/Ground communication. The system was supplied by Indra Avitech Company.

1.2 In 2016, System Hardware needed replacements and software needed improvements and upgrade to support altogether enhanced operations of MHS System. Jordan CARC requested an optimal solution in order to renew the system and ensure safe and reliable operations for the next years. Therefore, System hardware and software have been upgraded.

1.3 In 2022, AMHS system software has been upgraded, the software upgrade included AMHS user agents.

2. DISCUSSION

2.1 The recent upgrade of the AMHS system has brought several benefits to aviation services including improved availability and enhanced serviceability.

2.2 Amman COM center has established AMHS connections with several international centers including (Abu Dhabi, Ankara, Baghdad, Cairo and Jeddah). Amman is planning to migrate to AMHS with Bengorion and Nicosia COM centers in the short term.

2.3 AMHS has been implemented at national level, several P7 User Agent connections has been established with the ACC and D-ATIS as well as with the Metrological center to enable IWXXM message exchange.

2.4 Jordan has unified the transmission of data and voice over IP network with adjacent Centres (Cairo and Jeddah), the solution reduced cost and improved failure management process.

2.5 According to the ICAO MID Region ANS strategy (ICAO MID Doc002), Jordan has fully implemented priority 1 elements of the COMI thread (B0/7: AMHS & B1/1: ATN/IPS).

COMI						Status of implementation in Jordan
Element	Title	Applicability	Performance Indicators/	Performance Indicators/	Performance Indicators/	
COMI B0/7	ATS Message Handling System (AMHS)	All States	Indicator: % of States that have established AMHS interconnections with adjacent COM Centres Supporting metric: Number of States that have established AMHS interconnections with adjacent COM Centres	90%	Dec 2020	Implemented
COMI B1/1	Ground-Ground Aeronautical Telecommunication Network/Internet Protocol Suite (ATN/IPS)	All States	Indicator: % of States that have established National IP Network for voice and data communication Supporting metric: Number of States that have established National IP Network for voice and data communication	80%	Dec 2021	Implemented

2.6 Jordan expressed their willingness to join the Regional IP Network projects (CRV or New PENS) pending the technical and financial details that makes a positive business case.

3. ACTION BY THE MEETING

3.1 The meeting is invited to note of the information contained in this Information Paper.