



International Civil Aviation Organization

MID Region ATM Enhancement Programme Board

Second Meeting (MAEP Board/2)  
(Cairo, Egypt, 11-13 April 2016)

---

---

**Agenda Item 3: MAEP Projects**

**EUROCONTROL PROPOSAL ON THE EAD-MIDAD COOPERATION**

*(Presented by EUROCONTROL)*

**SUMMARY**

This paper presents the proposal of EUROCONTROL to support the establishment of MIDAD.

Action by the meeting is at paragraph 3.

**REFERENCES**

- MAEP SC/2 Report
- EAD-MIDAD Coordination meeting Report

**1. INTRODUCTION**

1.1 The meeting may wish to recall that MAEP SC/2 meeting (Egypt, Cairo, 20-22 October 2015) prioritized the projects in accordance with their implementation time frame and as a result set the timeframe for MIDAD to be 2017 and beyond.

1.2 The meeting may wish to note that EAD-MIDAD coordination meeting was held in the ICAO MID Regional Office premises, Cairo, from 9 to 10 December 2015 between EUROCONTROL and the ICAO MID Regional Office.

**2. DISCUSSION**

2.1 The EAD-MIDAD Coordination meeting noted the Report of the MAEP SC/2 meeting part related to the discussion and prioritization of the MIDAD Project.

2.2 It was also noted that the upcoming IM/AIM provisions/requirements i.e. Digital NOTAM, Integrated briefing, Aeronautical Data Quality, data exchange and system interoperability, SWIM, FF-ICE, etc. would necessitate robust AIS/AIM Databases' updating/establishment by States. It was highlighted that the implementation of a Regional AIS/AIM Database would be the most efficient solution to meet those requirements and could also be a pre-requisite for other ATM components (e.g. ATFM, CDM, etc.).

2.3 The meeting reviewed the outcome of the DGCA-MID/3, MIDANPIRG/15, MIDAD TF/3 and MAEP SC/2 meetings related to MIDAD. Taking into consideration the European experience related to the establishment and operation of EAD and the realized activities and steps

taken for the MIDAD, EUROCONTROL in cooperation with the ICAO MID Regional Office is proposing an alternative approach to investigate on the possibility to create an overall implementation plan based the EAD system and service, which is already well recognized by the Middle-East States (Jordan and Qatar are connected to EAD, and Egypt, Kuwait are in the migration process).

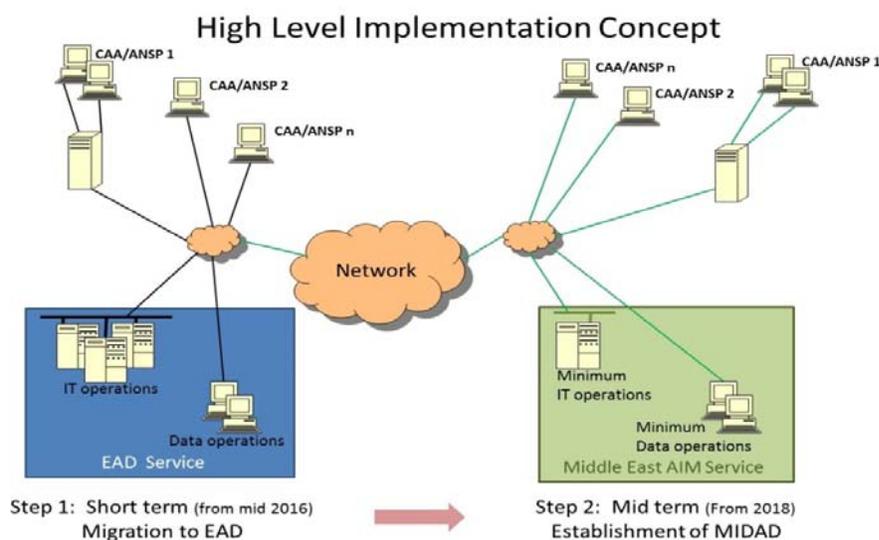
2.4 The outcome of the Coordination meeting was discussed at EUROCONTROL senior management level, and it was agreed to proceed with the proposal to support the MID Region by creating the MIDAD implementation plan in order to describe the most practicable and efficient way to establish the Regional AIS/AIM Database in the Middle East Region.

2.5 The proposal will consist in the delivery of a MIDAD Implementation Plan to be carried out during 2016, using available resources provided by EUROCONTROL, in cooperation with the ICAO MID Regional Office.

2.6 The high level technical concept will be composed of 2 phases:

- Step 1: Allowing MID States to benefit from an already operating state-of-the-art AIS/AIM supranational database by migrating and starting operations with EAD.
- Step 2: Medium/long term solution to establish the MIDAD Regional AIM Database and Operational Centre in the MID Region, based on an instantiation of EAD service node for the MID Region.

2.7 The MIDAD Regional AIM Database and operations related services (technical and operational) will be setup and operated in a first phase by EUROCONTROL, and later on handed-over to the future MIDAD AIS/AIM organisation or entity (service provider) to be set-up.



### MIDAD implementation Plan

2.8 The development of the MIDAD implementation plan would be carried out by EUROCONTROL based on the EAD experience, in cooperation with the ICAO MID Regional Office and stakeholders. It would cover, inter alia, the following main areas:

- Proposed technical solution (step 1 and 2) that shall be the most efficient and achievable solution for the establishment of a Regional AIM database, avoiding unnecessary duplication of efforts, building on the success of EAD, fostering inter-regional cooperation and saving time, money and efforts.

- The implementation of this solution will require a transition phase where MID States need to migrate to EAD, until the establishment of an EAD-based MIDAD database and Operational Centre in the MID Region with the benefit that the switch over to a regional service node will require only minimal operational and technical client changes.
- Scalable provision of local service (at the States level) based on client or on connected local server solutions and flexible geographical coverage - no big bang but smooth transition taking into account the local capabilities.
- Elaboration of migration and transition scenarios for both step 1 and step 2.
- Defining the Institutional arrangements for the MIDAD AIS/AIM organisation or entity, including operational governance, taking into account requirements related to funding (including support opportunities offered by International Financial Institutions as for example World Bank (WB), European Investment Bank (EIB), African Development Bank (AfDB), etc.), legal framework, service level specifications, working arrangement, etc.
- Global interoperability.
- Detailed cost/benefit analysis of MIDAD establishment and joining by the different MID States for both steps including administrative, setup/implementation (inter alia hardware, software/licenses, training), migration/transition, operation and maintenance.
- Risk analysis and appropriate mitigation.
- Overall planning of implementation.

*Note 1 – A clear implementation plan, including the transition plan, should be developed. However, there won't be a need for the "MIDAD Detailed Study".*

*Note 2 – The implementation phase would be managed as an ICAO TCB project.*

*Note 3 – The Study/data required to develop the implementation plan would be collected based on the EAD experience, using the available data/resources, initial Study, EUROCONTROL/ICAO expertise, States' consultation (through the experts and MIDAD ST, questionnaire/surveys, States' visits, as appropriate).*

*Note 4 - The overall goal is the improvement of data quality and AIM service in the Region and opportunities with high improvement potential should have high priority.*

2.9 The Implementation Plan would be proposed to MAEP and/or MIDANPIRG for endorsement.

### **3. ACTION BY THE MEETING**

3.1 The meeting is invited to:

- a) note the information provided in the paper; and
- b) discuss and agree on the proposal.