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# **Sixth Meeting of the Aeronautical Information Management Sub-Group (AIM SG/6)**

*Cairo, Egypt, 21-23 January 2020*

*Presented by UAE*

## **Proposal of Regional Implementation for Digital Datasets: Heads up**



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# Outline

- **Introduction and Document Purpose**
- **Document Structure Explanation**
- **Summary**



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## Introduction and Document Purpose

- Essentially, the draft plan is considering the ***DDI - Challenges, Best Practices and Proposals***” as a mature and good basis for this next phase.
- It outlines and provide guidance on what issues should be resolved prior to and during the implementation of digital datasets.
- Key point assuring the mapping between “problem statement” i.e. challenges identified in 1<sup>st</sup> step of the group work plan and the final updates of the Doc. 008.



# Document Structure Explanation

## ➤ Summary of the Problem Statement:

- Emerging of the technology in AIS day-to-day operations;
- Acquaintance with new domains (IFPD, ARINC 424, AMDB);
- Operational implementation related to institutional, financial, technical and transition phase;
- The risk for States not delivering a consistent solution i.e. proliferation of different provision ways;
- ICAO focus on common/harmonized implementation strategy and community specifications;

## ➤ Digital Dataset Deployment Considerations:

- Implementation success is seen as “binomial” work (AIS and its user community);
- The timeline is dependent on State owning an up & running AIM system;
- ECTL survey: IFR, VFR and Data-houses are interested using DDS from now in 2 years;
- ECTL survey: States need to establish a transition period i.e. duplication of information” (especially AIP tables available in parallel as digital files = source liability & legal concerns)
- Generally, the implementation actions should be contingent with ICAO Roadmap to SWIM environment (*ASBU, up to 2025*) and in coordinated inter-regionally manner;



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# Document Structure Explanation

## ➤ Specific Factors for the Timeline:

- Existence of dedicated series of specifications (ECTL AIP DS specs & coding rules, Obstacle DS);
- Mapping PANS AIM dataset subject/properties to AIXM 5.11 features attributes available;
- Updates of AIXM 5.2 with PBN & Satellite-based procedures;
- State to make sure with the system supplier to have the new capability;
- Proposed phased approach: (1) AIP, (2) (3) Obstacle & Terrain, (4) AMDB and (5) IFPD.

## ➤ EUROCONTROL Specifications Plan:

- ECTL has defined a plan for the specification development to be applied by ECAC States;
- ECTL Calendar (deliverables timeline) is considered as a helpful reference and driving component for the MID implementation plan;
- For ensuring regional/global harmonization, ECTL has coordinated with IMP/WG-A that new AIS Manual (Vol. 4) will reference DDS specs;



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## Summary

- The DDS Implementation Plan is in a form of matrix (*proposal is formally attached to this presentation*)
- There are 3 main domains (institutional/regulatory, financial, technical) + operational thread (transition phase, updated AIS workflow and processes)
- Briefly, the leading factors affecting the plan timeline estimates are:
  - Pending Doc. 8126, Vol. 4 guidance;
  - Imminence of AIXM 5.2 model;
  - Readiness and schedule ECTL Specs;
  - State AIM system upgrades;
  - SWIM interoperability and client awareness;
  - User capability to use digital datasets;
  - State AIM national plan;



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Thank you