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WORKING PAPER

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ASSEMBLY — 38TH SESSION

TECHNICAL COMMISSION

Agenda Item 36: Air Navigation — Emerging Issues

AIS TO AIM TRANSITION ACTIVITIES IN ASECNA

(Presented by ASECNA)

EXECUTIVE SUMMARY

The 11th Air Navigation Conference (AN-Conf/11) approved the ATM operational concept and by its recommendation (1/8), this meeting clearly defined the objective of Aeronautical Information. It is in the way to reach this objective that ICAO roadmap for the transition from AIS to AIM was adopted in 2009.

The objective of this information paper is to show the status of AIS to AIM transition implementation in ASECNA States Members accordingly to the ASBU methodology.

<i>Strategic Objectives:</i>	This working paper relates to the Safety Strategic Objective.
<i>Financial implications:</i>	Important implementation financial means
<i>References:</i>	GPI-18 Aeronautical Information GPI-20 WGS-84 Recommendation 1/8-AN-Conf/11 AIS TO AIM Roadmap ASBU methodology

¹ English and French versions provided by ASECNA

1. INTRODUCTION

1.1 The ICAO roadmap for the transition from AIS to AIM adopted in 2009, has three phases:

- Phase 1 : consolidation
- Phase 2 : digitalisation
- Phase 3 : Information management.

Concerning the ASBU methodology, these three phases are included in the module B0-30 or (B0-DATM) Service Improvement through Digital Aeronautical Information Management.

1.2 ASECNA, since the adoption of ICAO roadmap for the transition from AIS to AIM, is conducting many implementation activities in order to improve all AIM services in its seventeen African Member States.

1.3 The following table gives a situation for each step of the roadmap

1- Status of transition roadmap implementation in ASECNA

a. Consolidation Phase

Steps	ICAO Ref	Actions	Implementation rate
AIRAC monitoring	P03	All publication are compliant with AIRAC	100%
Monitoring differences related to annexes 4 and 15	P04	Differences notified by states are published by ASECNA	Monitoring by AAC
WGS-84 implementation	P05	All international and regional aerodromes are covered. Periodic update is planned within investment programs	100%
Quality Management System	P17	Quality Management System is implemented in 2012 for all AIM activities ; ISO Certification is planned for 2013/2014	60%

b. Digitalisation phase

Steps	ICAO Ref	Actions	Implementation rate
Data integrity monitoring	P02	Pre-check and post-check procedures are established with four check points. An indicator is used to monitor these checks.	100 % Permanent action
Data Quality monitoring	P01	Check procedures established to be applied by all actors Remaining challenges related to be addressed due to some weakness in coordination with external data originator	95%
Integrated aeronautical information database	P06	Static and dynamic database AIXM 4.5 implemented, pre-operational tests are in progress. Database is linked with the automation of AIS Unit, NOF unit and AIP edition. (THALES solution : NOPIA+ANAIS)	60%
Aerodrome mapping	P15	Use of GIS and automation of mapping computer application is planned for 2014/2016	0%
Obstacles	P14	Survey for e-TOD are planned - Data availability (2015/2017)	0%
Topography	P13		
EAIP	P11	E-AIP is available in PDF format- Migration to AIXM in 2013/2014	70%

c. Information Management phase

Steps	ICAO Ref	Actions	Implementation rate
Aeronautical Data Exchange	P09	Stand by for AIXM data base full operation and ICAO specifications. Link with AFICAD expected	0%

Communications networks	P10	- AMHS implementation 2013/2014 - IP network implementation 2013/2015	25%
Aeronautical Information Briefing	P12	PIB improvement and MET data integration in progress	60%
Training	P16	Initial and on job training progressively adapted to the transition needs	40%
Agreements with Data Originators	P18	SLA signature in progress with the basic data originators in each country	10%
Interoperability with meteorological products	P19	Standby for WXXM specifications	0%
Electronic aeronautical charts	P20	Planned for 2015/2017	0%
Digital NOTAM	P21	Standby for ICAO specifications	0%

2. CONCLUSION

2.1 In light of the above, the implementation status of AIS to AIM in ASECNA is positive and is resumed as follows:

- a) **Phase 1:** all steps are implemented; AIM Quality Management ISO certification is on progress.
- b) **Phase 2 :** steps concerning data integrity and quality monitoring, e-AIP and database are in good progress, the challenge is AMDB and e-TOD;
- c) **Phase 3:** activities are in progress about training, communications networks, and agreements with data originators.

2.2 Finally ASECNA is ready for the full implementation of the ASBU modules related to the service improvement through digital aeronautical information management.

2.3 The Assembly is invited to take note of the implementation status of AIS to AIM transition activities conducted by ASECNA and urge States and Industry to develop international cooperation and partnership for AIM objectives, particularly for database sharing and electronic terrain and obstacle data survey settlement.