



ICAO

INTERNATIONAL CIVIL AVIATION ORGANIZATION

SIXTH MEETING OF THE DIRECTORS GENERAL OF AFRICA- INDIAN OCEAN REGION (AFI DGCA/6)

Brazzaville, Congo (2 – 4 November, 2016)

Agenda Item 0.0: Globally Interoperable Systems and Data

AFI-CAD Concept and Implementation

(Presented by ATNS of South Africa)

SUMMARY
This Working paper provides progress made by States of implementing AN-Conf/12 Rec 3/8 (c) within the AFI Region.
REFERENCE(S): The 12 th Air Navigation Conference (AN-Conf/12); APIRG 20 Conclusion 20/33, 20/34 and 20/35; Global Air Navigation Plan (Doc 9750); AIS to AIM Roadmap
Related ICAO ASBU Performance Improvement Areas : PIA 2 – Globally Interoperable Systems and Data

1. INTRODUCTION

1.1 In 2012, the 12th Air Navigation Conference (AN-Conf/12) accepted the Aviation System Block Upgrades (ASBU) and furthermore the revised Global Air Navigation Plan (Doc 9750).

1.2 The Module upgrades defined for each of the performance improvement areas of ASBU provides an organized and systematic approach of implementing future air navigation technology and procedure improvements based on global performance capabilities within flexible timelines.

1.3 The requirements for Aeronautical Information Management (AIM) to support the Air Traffic Management system as defined in the Global Air Traffic Management Operational Concept (Doc 9854), is contained in both the ICAO AIS to AIM Roadmap and ASBU Performance Improvement Area 2 – Globally Interoperable Systems and Data.

1.4 AN-Conf/12 Recommendation 3/8(c) called for the intraregional and interregional cooperation to ensure an expeditious transition from aeronautical information service (AIS) to aeronautical information management (AIM) in a harmonized manner and the use of digital data exchange and regional or subregional AIS databases as an enabler for the transition from AIS to AIM.

2. DISCUSSIONS

2.1 In accordance with the APIRG 20 report which took place in Cote d'Ivoire (30 November – 02 December 2015), the following conclusions and decision were formulated which directly relates to the implementation of ASBU Performance Improvement Area 2 – Globally Interoperable Systems and Data:

Conclusion: 20/33: Implementation of AN-Conf/12 Rec. 3/8 (c)

That States which have taken the initiative of the AFI-CAD concept of implementing Centralized AIS databases should ensure compliance with the provisions of AN-Conf/12 Recommendation 3/8(c) calling for intraregional and interregional cooperation for an expeditious transition from aeronautical information service (AIS) to aeronautical information management (AIM) in a harmonized manner and use of digital data exchange and regional or subregional AIS databases as an enabler for the transition from AIS to AIM.

Conclusion: 20/34: Interoperable Systems and Data

That States should ensure the compatibility of the various versions of AIXM databases and integration of the different aeronautical data domains to facilitate implementation of a system wide information management (SWIM), under ASBU B0-DATM element on AIXM in the AFI Region.

Conclusion: 20 /35: Planning and implementation of AIM

That States should ensure that the planning and implementation of AIM in the region, is coherent and compatible with the developments in adjacent regions, and is carried out within the framework of the ATM Operational Concept, the Global Air Navigation Plan.

2.2 ASBU Module upgrade B0-DATM (Service improvement through digital aeronautical information management) requires the initial introduction of digital processing and management of information, through aeronautical information service (AIS)/aeronautical information management (AIM) implementation, use of aeronautical information exchange model (AIXM), migration to electronic aeronautical information publication (AIP) and better quality and availability of data.

2.3 Various states/service providers like ASECNA, Kenya, Nigeria and South Africa have already implemented AIXM Databases within the AFI Region.

2.4 Based on the First AFI-CAD Regional Database Service Providers Meeting (Dakar, Senegal, 6-7 October 2016), the following resolutions were agreed to:

That ASECNA, ATNS, KCAA, NAMA formulate a common Service Level Agreement (SLA) in consultation with database hosts and participating states, covering the system availability, data quality requirements, data operations, infrastructure and other terms of engagement between states and service providers of the AFI-CAD. (See Attachments A, to WP--)

That Botswana, Nigeria, Kenya, South Africa, ASECNA and ICAO Secretariat form a drafting team and draft AFI-CAD Concept paper for onward forwarding to APIRG for adoption.

2.5 In view of the experience gained by the above mentioned AFI States/Service Providers in developing and implementing ASBU Module upgrade B0-DATM, it is recommended that states who have not yet developed action/implementation plans for implementing B0-DATM, support the proposed establishment of an AFI-CAD concept drafting team and support the documents developed by this team.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the Working this paper; and
- b) Implement action plans to meet the required ASBU B0-DATM - Service improvement through digital aeronautical information management within the block upgrade defined timelines; and
- c) Consider the possibility of AFI States migrating to the states which has been identified as possible Regional AIS Database as an alternative to enhance the AIM implementation process within the AFI Region.
- d) This initiative will enhance the AIM implementation process within the AFI Region.
- e) Review and note **Attachments A, to WP-**

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