



International Civil Aviation Organization

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Sixteenth Meeting of the ICAO Aeronautical Information Services – Aeronautical Information Management Implementation Task Force (AAITF/16)

Video Teleconference, 07 – 11 June 2021

Agenda Item 5: Regional AIM Guidance and Planning

SUPPORTING DOCUMENTATION FOR AIM IMPLEMENTATION

(Presented by ICAO IMP AIM Working Group)

SUMMARY

This paper presents the development status of the ICAO guidance documents, the AIM Quality Manual and AIM Training Manual, developed to provide guidance for the provision of the Aeronautical Information Service and facilitate the harmonized transition from AIS to AIM transition.

1. INTRODUCTION

1.1 In moving toward harmonized regional AIS to AIM transition and implementation, it is important to recall that quality-assured, timely aeronautical information provided and exchanged by digital aeronautical data is fundamental in supporting current and future aviation systems, supported by collaboration between States to improve interoperability and harmonization of all processes and systems supporting regional and global air navigation.

1.2 The AIM Working Group (WG-A) under the Information Management Panel (IMP), is charged with the development of guidance documents, and has finalized the proposed AIM Quality and AIM Training manuals. These documents will be very effective in assisting AIM implementation in the Asia/Pacific Region.

1.3 As a global AIM implementation activity, the Asia/Pacific Region has also undertaken AIS to AIM transition planning in accordance with the Asia/Pacific Plan for Collaborative AIM (version 2.0 August, 2019). During AAITF/15 it was noted that the regional Phase I implementation status was disappointing, and all States should attend to implementing all elements of this phase as a matter of priority.

2. DISCUSSION

AIM Quality Manual

2.1 The AIM Quality Manual was developed to provide guidance on the implementation of a quality management system (QMS) to control the activities required for the provision of an AIS in a SWIM environment to support modern ATM operations. This manual was developed with reference to the structure of ISO 9001:2015.

2.2 The transition from a traditional AIS to a more dynamic AIM environment introduced new requirements to ensure the integrity of aeronautical products and services. Formal arrangements, data product specifications and data quality requirements were identified as topics that needed to be addressed in the guidance material. In addition, digital data exchange will need quality protocols in place to ensure that the next intended users' requirements are met.

2.3 A Safety Management System (SMS) is another factor to be considered in the QMS for AIM. Although an SMS is not a requirement for an AIS, it is essential to consider the benefits of an integrated management systems with unified goals and risk-based decision-making, by considering the wider impacts across all safety related activities. SMS and QMS processes are highly complementary and will support the achievement of overall organizational goals without compromising safety. This manual explains the relationship between Quality and Safety Management Systems.

AIM Training Manual

2.4 This manual is aimed at individuals or organizations involved in the planning, design, delivery or evaluation of Aeronautical Information Services (AIS) training. It describes AIS training in a competency-based approach.

2.5 The manual contains the following guidance:

- a) a detailed, step-by-step process for designing an adapted competency-based training and assessment (CBTA) model for Aeronautical Information Service (AIS) technical personnel by using competency-based training and assessment methodology and the ICAO AIS competency framework;
- b) highlights competency-based elements that are fundamental to the development, conduct and evaluation of the training; and
- c) highlights the issues and elements that are specific to each of the phases of training.

2.6 The manual does not prescribe a “one-size-fits-all” training programme. Instead, it is outcome-based and describes how aeronautical information service providers can use the ICAO AIS competency framework to establish an adapted competency model that is appropriate for AIS regulatory, operational, technical and organizational environments. The ICAO competency framework is defined in the Procedures for Air Navigation Services — Training (PANS-TRG, Doc 9868).

2.7 The manual provides service providers with guidance on how to identify competencies necessary for their environment, and how to design the training and assessment tools needed for various AIS training phases. It contains guidance on generic instructional systems design, instructional techniques, and administrative policies and procedures for training programmes. Organizations should ensure training programmes are aligned with the technical elements included in the AIS guidance material to enable AIS technical personnel to effectively perform the functions required for the provision of aeronautical data and information products and services.

Development Status

2.8 These two manuals have been developed by the contributions of the Quality and Training Focus Groups under the IMP-WG/A. They are expected to be published after ICAO secretariat review. Asia/Pacific States should work towards improving their QMS and Training using these guidance documents.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the development status of ICAO guidance documents; and
- b) discuss any relevant matters as appropriate.

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