55th CONFERENCE OF
DIRECTORS GENERAL OF CIVIL AVIATION
ASIA AND PACIFIC REGIONS

Denarau Island, Nadi, Fiji
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AGENDA ITEM 4:   AIR NAVIGATION

AIS/AIM TRANSITION

Presented by the Civil Air Navigation Services Organisation (CANSO)

SUMMARY

The way that aeronautical information is provided is changing, with traditional aeronautical information services (AIS) transitioning to the broader, data-centric concept of aeronautical information management (AIM). AIM is a basic building block for many of the ASBU elements as high quality aeronautical information is a prerequisite for the new technologies and tools that aircraft and ATM systems will use to enhance safety, efficiency and capacity. This paper highlights CANSO's recent efforts in assisting ANSPs navigate the transition through its CANSO AIS/AIM Transition Strategy workshop for senior AIM managers in the region and the publication of a CANSO AIM Quality Management Development Guidance Manual.

AIS/AIM TRANSITION

1. INTRODUCTION

1.1   The way that aeronautical information is provided is changing, with traditional aeronautical information services (AIS) transitioning to the broader, data-centric concept of aeronautical information management (AIM). AIM is a basic building block for many of the ASBU elements as high quality aeronautical information is a prerequisite for the new technologies and tools that aircraft and ATM systems will use to enhance safety, efficiency and capacity.

1.2   In the Beijing Declaration of the Asia/Pacific Ministerial Conference on Civil Aviation in 2018 transitioning from AIS to AIM is listed as one of the top priorities for Air Navigation Service. Unfortunately, as reported by the ICAO AIS/AIM Implementation Task Force (AAITF/13), progress in the implementation of AIM transition steps from the ICAO Roadmap for Transition from AIS to AIM was poor with Phase 1 and Phase 2 at only 73% and 37% respectively. Only two States had reported implementing all Phase 1 and 2 roadmap steps. This compares poorly with the target of 100% implementation of Phase 1 and 2 by November 2015 set by APANPIRG when it endorsed the APAC Seamless ATM Plan in 2013.

1.3   AAITF/13 also noted the on-going rising concern over the poor quality management of aeronautical information in the APAC Region and the apparent lack of organisational priority for this safety critical obligation. In particular, it noted in its review of AIS-AIM related Air Navigation Deficiencies that a Quality Management System was not implemented in 23 States.

2. DISCUSSION

2.1   This paper highlights CANSO's recent efforts in assisting ANSPs navigate the transition through its CANSO AIS/AIM Transition Strategy workshop for senior AIM managers in the region and the publication of a CANSO AIM Quality Management Development Guidance Manual.

2.2   CANSO conducted an AIS/AIM Transition Strategy Workshop in Singapore in September 2017. The objective of the workshop was to provide senior AIS/AIM planners with a high level strategic overview of the AIS-AIM transition roadmap, to discuss best practices in implementation and possible approaches to overcoming the challenges and roadblocks faced by ANSPs in their transition from AIS to AIM. The workshop was attended by 29 participants from 13 ANSPs.

2.3   Workshop topics and presentations by ANSPs covered the following areas:

- AIM Roadmap Overview and Implementation Challenges
- Quality Management
- SMS Implementation in the Context of AIM
- Electronic Terrain and Obstacle Data (ETOD) – implementation challenges and solutions
- Managing Aeronautical Data Originators
- Introducing Best Practice to minimize raw data errors from Originators
- AIXM for Interoperability
- Regulators Role in AIM
- CANSO AIM Training Guidance Material
- Implementation progress Updates by ANSPs

2.4   More recently in March 2018, the CANSO AIM Workgroup published an Aeronautical Information Management (AIM) Quality Management Development Guidance Manual. This manual offers guidance to CANSO Members and States on how to improve the quality of AIM so as to fulfil the requirements of ICAO Annex 15 - Aeronautical Information Services which spells out the need for States to introduce a quality management system for AIM.

2.5   The CANSO AIM Quality Management Development Guidance Manual covers the following areas:

- Policies on Quality Systems for AIM
- Concept and Vocabulary
- ISO 9001:2008 QM
- QMS Documentation
- Auditing Processes
- Non-Conformance Reports and Corrective Action
- Steps to Certification and Other Practical Issues
- The Data Quality Process

2.5   The CANSO Manual has been designed to provide specific guidance on how to improve information management. It can help States/ANSPs achieve the best practice on quality management system standards and assist in the development of a quality manual which is the basis for enabling the provision of timely quality aeronautical information.

2.6   The CANSO Manual provides an easy and understandable path for the development and adaptation of individual State quality manuals and its content can be adjusted for a State AIM based on local needs and goals,

2.7   The CANSO AIM Quality Management Development Guidance Manual can be downloaded from the CANSO website at www.canso.org.

3.   ACTION BY THE CONFERENCE

3.1   The Conference is invited to:

a) Note the information contained in the paper;

b) Encourage States and ANSPs to avail themselves of the CANSO AIM Quality Management Development Guidance Manual; and

c) Discuss any other matters as appropriate.

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