



International Civil Aviation Organization

**The Seventh Meeting of the Asia/Pacific Aeronautical Information Services –
Aeronautical Information Management Implementation Task Force
(AAITF/7)**

Ha Noi, Viet Nam, 13 – 16 March 2012

Agenda Item 4: AIS-AIM Updates

AIM IMPLEMENTATION PROCESS IN MONGOLIA

(Presented by Mongolia)

SUMMARY

This paper provides information on the latest updates of Aeronautical Information Management (AIM) implementation in Mongolia.

This paper relates to –

Strategic Objectives:

A: *Safety – Enhance global civil aviation safety*

Global Plan Initiatives:

GPI-12 Functional integration of ground systems with airborne systems

GPI-18 Aeronautical information

1. **INTRODUCTION**

1.1 Aeronautical Information Services are migrating to Aeronautical Information Management in a manner that will ensure the availability of aeronautical information to any ATM user in a globally interoperable and fully digital environment. Significant progress have been made by Mongolia in the transition towards AIM guided by the AIM Implementation Plan of Mongolia which was developed based on ICAO Roadmap for transition from AIS to AIM.

1.2 Aeronautical Information Services Division of Civil Aviation Authority of Mongolia (CAAM) has 2 automation systems, eAIS system which is used for NOTAM processing, PIB and Flight Plan & ATS Messages handling and eAIP system which is used for production of electronic Aeronautical Information Publication (eAIP) of Mongolia. Both systems are provided by Avitech-AG of Germany.

2. **AIM IMPLEMENTATION PROCESS IN MONGOLIA**

2.1 As Asia/Pacific region prepares to transition to flight planning and ATS message changes defined in Amendment 1 to the PANS-ATM which will become applicable on 15 November 2012, CAAM plans to make the necessary changes to flight data processing systems of its ANSPs in compliance with the Asia/Pacific Guidance Material for the Implementation of Amendment 1 to the 15th Edition of the Procedures for Air Navigation Services-Air Traffic Management (PANS-ATM,

Doc 4444). Software changes to the eAIS system which manages and processes flight plan and ATS messages data related to departures and arrivals operated at Chinggis Khaan International Airport (ZMUB) will be implemented in 2012. CAAM and Avitech are signing a contract of FPL2012 extension and upgrade in near future and software upgrade will be delivered in summer 2012.

2.2 CAAM has collected Area 2 electronic terrain and obstacle data for 7 aerodromes using satellite images and is planning to start collecting the same data for remaining 12 aerodromes in 2012. CAAM also plans to establish electronic terrain and obstacle database to be used as the data source for development of flight procedures, obstacle limitation in aerodrome area and production of aeronautical charts. It will be configured to generate data from the database to ESRI Aeronautical Solution 10 which will be used for automated production of aeronautical charts in accordance with the requirements of ICAO Annex 4.

2.3 The technical specification of the latest system upgrade has been developed by AIS Division and tender bidding will be announced soon. This upgrade will consist of the following:

- Create and update aeronautical charts using ESRI ArcGIS Aeronautical Solution 10 based on the aeronautical information held in current static database and the new electronic terrain and obstacle database.
- Migration of the existing AIXM 3.3 based data to AIXM 5.1 and AMDB support.
- Introduction of 4-eye principal for critical information entry in electronic terrain and obstacle database and static database.
- Data Interface to enable import of world-wide static data into eAIS and eAIP systems from sources such as Jeppesen, ARINC and EAD and export of national static data from the static database to agencies such as Jeppesen (AIXM format).
- Web-based software to receive raw data from data originators.
- Web display of static database and electronic terrain and obstacle database and dynamic data from eAIS server (NOTAM, PIB and FPL) on AIS website and installation of GIS viewer in static database.

2.4 Procedure for the Provision of Originated Data to the AIS was approved by the Director General of CAAM and agreements have been signed with data originators in order to ensure timely and effective provision of raw data. AIS Division is planning to update its Static Data Procedures to better explore the advantages of eAIP system. eAIP system is capable of receiving raw data from data originators by internet, creating log sheet and producing AIP Amendments, AIP Supplements, AIC and List of Valid NOTAM in a fully automated manner.

3. ACTION BY THE MEETING

3.1 The meeting is invited to note the contents of this paper.

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