



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

Transition from AIS to AIM in Viet Nam

(Presented by Viet Nam)

SUMMARY

This paper presents recent activities in Viet Nam with respect to the transition from aeronautical information services (AIS) to aeronautical information management (AIM).

This paper relates to –

Strategic Objectives:

A: *Safety – Enhance global civil aviation safety*

Global Plan Initiatives:

GPI-18 Aeronautical information

1. INTRODUCTION

1.1 The Aeronautical Information Services (AIS) of Viet Nam ensures the flow of information necessary for the safety, regularity and efficiency of international and national air navigation within the area of its responsibility.

1.2 Since the adoption of the global ATM concept and the progressive implementation of the CNS means, the air traffic management systems are more and more dependent on the aeronautical data which must be reliable, available on time and at the right place. These requirements led ICAO to adopt the concept of Aeronautical Information Management (AIM). In this way, the Air Navigation Commission adopted on March 10, 2009 “ICAO roadmap for the transition from AIS to AIM”.

1.3 The ICAO Roadmap for the Transition from AIS to AIM provides States of guidance to implement AIM through 21 steps which are categorized into three (3) successive phases.

1.4 Viet Nam is going to implement the overall national roadmap for the Transition from AIS to AIM basing on ICAO roadmap.

2. CURRENT AIS PROVISION IN VIET NAM

2.1 The AIS organization of Viet Nam consist of AIS Headquarters, AIP Division, MAP/CHART Division, International NOTAM Office (NOF) and Aerodrome AIS units.

2.2 The AIS services are provided in accordance with the provisions contained in Annex 15 (ICAO) - Aeronautical Information Services and the AIS Regulation of Viet Nam which has been promulgated by Ministry of Transport of Viet Nam on 6th April 2007. This Regulation has been amending in order to timely adapt with ICAO's scheduled amendments to Annex 15 and Annex 4 in the coming time.

2.3 As assigned by Civil Aviation Authority of Viet Nam (CAAV), Viet Nam Air Traffic Management Cooperation (VATM) has invested an Automated AIS System which has been in trial operation from October 20th 2011 and is planned to be put into real operation from April 20th, 2012.

The Automated AIS system provides for operational functions such as AIP/MAP/CHART, NOTAM, Flight Plan, Pre-flight Information Bulletin (PIB), Aeronautical Meteorological Information (MET), Search and Rescue (SAR) Information.

The establishment and installation of the Viet Nam's Automated AIS System has improved the overall speed, efficiency, accuracy and cost-effectiveness of the AIS.

2.4 AIS publications: AIS Viet Nam provides all the elements of the Integrated Aeronautical Information Package.

- AIP Viet Nam was issued based on the format in three parts (GEN, ENR, AD) and fully complied with the Annex 15 since 1999. Since the automated AIS System has been established, the format of Viet Nam's AIS publications has been changed consecutively. Therefore, the Civil Aviation Authority of Viet Nam has reissued Viet Nam's AIP - 4th Edition. Viet Nam's AIP 4th Edition has been published in 2 Volumes in a loose-leaf form with bilingual text (Vietnamese and English) on the same side of one page, instead of monolingual text (English or Vietnamese) on each side of one page.

- AIP amendment, supplement and AIC: Regularly published and as soon as needed.
- NOTAM: Issued in accordance with the ICAO Annex 15 with H24 basic.
- PIB: Available in aerodrome AIS offices.
- AIRAC: Publications are issued in accordance with ICAO AIRAC cycle.
- Topographic surveys have been done and geographic coordinates are published in WGS-84 System.

3. PROGRAM IN PROGRESS

Like the international community, Viet Nam gets ready to set gradually the transition from AIS to the AIM by planning several actions.

3.1 *The main objectives of transition are:*

- The implementation of a Centralized Aeronautical Database able to ensure the reliability, the integrity and the availability on time of the data.
- The compatibility and easy exchange of data with the other Databases.

- The coherent automation of the main functions for the production of the different elements of the integrated aeronautical information package.
- The facilitation of the interoperability with meteorological products and flight plan management system.

3.2 *Some programs are developing and being implemented:*

❖ Conception and realization of the database: Viet Nam is implementing its database in accordance with the Aeronautical Information Conceptual Model (AICM)/Aeronautical Information Exchange Model (AIXM). Viet Nam's Automated AIS System has been complied with AIXM 4.5 and plans to improve into AIXM 5.0.

❖ Exchange with other databases: In order to facilitate its integration to the world network in the future, Viet Nam database will be in compliance with the international standards permitting exchanges with other States, operators (if required) in the future.

❖ eAIP: The electronic version of the AIP Viet Nam will be defined in two forms: One will be in the form of a printable document and the other will be in a form that can be viewed by web browsers. Anyways, the new provisions concerning the publishing of eAIP Viet Nam on internet will be established in the coming time.

❖ Agreements with data originators: Data of high quality can only be maintained if the source is of good quality. The whole data chain from the producer to the distributor shall be well controlled. AIS center of Viet Nam has signed the agreements with local data originators and one neighboring State (Cambodia). We continue discussing to sign the agreements with other data originators concerned.

❖ Staff training: Training modules on the management of the aeronautical data shall be implemented in order to let the AIS personnel to have the tools allowing them to face the new challenges of the AIM. To meet the qualifications and increase knowledge required for implementation readiness of AIM personnel, Viet Nam has sent personnel to attend AIS/AIM Implementation Task Force Meetings (AAITF), AIS/AIM training management and other training courses, such as Safety Management System, CNS/ATM, AIS Refreshers, Cartography, PANS-OPS, advanced AIS courses and facilitate AIS staffs to visit several countries to understand the developments in technologies and procedures for AIM implementation. We also organize the local courses to train AIS staffs the provisions of AIS services and the technological issues concerning the Automated AIS system.

❖ AIM Quality Management (SMQ-AIS): The implementation of AIS quality management system is a standard and the ISO certification is recommended. Viet Nam is implementing AIS Quality Management System and it will be completed by the end of 2012.

❖ Implementation of the electronic terrain and obstacle data (eTOD): Studies are in progress on the realization of works concerning the different zones specified by ICAO, taking into account the Amendment 36 of Annex 15.

❖ WGS-84 point's maintenance and extension: WGS-84 maintenance and extension works has been continuing to implement. The target of expressing one hundred per cent of coordinates concerned in the WGS-84 reference system is achievable by the end of this year. It's also adapted with the trial implementation of PBN by the 4th quarter 2012 in Viet Nam.

3.4 AIS Viet Nam always demonstrated a proactive approach to provide quality information to users by implementing effective AIS systems. Its current AIS system and programs relating to the future AIM development show its ongoing commitment to comply with the ICAO SARPS.

4. ACTION BY THE MEETING

4.1 The meeting is invited to:

- a) Take note of the information contained therein.
- b) Discuss about Viet Nam activities coming within framework of the transition from aeronautical information services (AIS) to aeronautical information management (AIM).
- c) To share experience with other countries in the matters related to the implementation of AIM.

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