



*International Civil Aviation Organization*

**FIFTEENTH MEETING OF THE  
COMMUNICATIONS/NAVIGATION/SURVEILLANCE AND  
METEOROLOGY SUB-GROUP (CNS/MET SG/15) OF APANPIRG**

Bangkok, Thailand, 25 – 29 July 2011

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**Agenda Item 3: Aeronautical Fixed Services (AFS)**

**3) discuss other AFS related issues**

**OUTCOME OF SPECIAL IMPLEMENTATION PROJECT AIDC SEMINAR**

(Presented by the Secretariat)

**SUMMARY**

This paper presents outcome of the Special Implementation Project (SIP) AIDC Seminar held in October 2010. The seminar addressed and promoted of AIDC between ATC units in the APAC Region. The meeting is invited to consider the recommendations developed by the Seminar.

This paper relates to:

- A: **Safety** – Enhance global civil aviation safety
- C: **Environmental Protection and Sustainable Development of Air Transport**

**Global Plan Initiatives:**

- GPI-17 Data link applications
- GPI-22 Communication infrastructure

**1. Introduction**

1.1 At its eighteenth meeting, in September 2007, the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG) noted with concern the coordination errors across FIR boundaries are the most crucial aspect of APAC regional RVSM operations. APANPIRG in 2008 identified that introduction of AIDC between ATS facilities would significantly reduce the coordination errors observed in controller to controller verbal communication across FIR boundaries. The meeting reiterated that States should work towards implementation of compatible AIDC capabilities between neighboring ATS facilities as soon as possible in accordance with the regional air navigation plan and the available ICAO guidance material on AIDC including the Asia/Pacific AIDC ICD. APANPIRG adopted Conclusion 19/19 urging States to expedite implementation of AIDC between neighboring ATS facilities.

1.2 A Special Implementation Project (SIP) Seminar on ATS Inter-Facility Data Communication (AIDC) was held at ICAO Regional Office, Bangkok, Thailand from 12 to 13 October 2010. The objective of the Seminar was to assist the States in the APAC Region in implementing AIDC which it is expected, will have significant favorable effects on the safety of operations and efficiency of air traffic management.

1.3 The Seminar was attended by 40 participants from Australia, China, Hong Kong China, India, Indonesia, Germany (DFS), Japan, Malaysia, New Zealand, the Philippines, Singapore, Thailand and Viet Nam. An Industry representative from Thales also attended the Seminar.

1.4 The Seminar was facilitated by Mr. Warren Beeston, National ATM Systems Manager of Airservices Australia and Mr. Paul Radford, Manager Oceanic Systems, Airways, New Zealand.

## **2. Discussion**

2.1 Following subjects with related information were discussed at the Seminar:

- a) Background information and objective of the Seminar
- b) Benefits of using AIDC
- c) Exchange information on experience gained and lessons learnt
- d) Discussions and clarification on the messages set used
- e) Discussions on training requirements for operational and technical personnel
- f) Technical requirement and development including testing platform and requirement
- g) ATM System Vendors' perspective
- h) History of APAC ICD for AIDC development and status of PAN Regional ICD for AIDC including identification additional information need to be included
- i) Amendment No. 1 to FPL and its impact to AIDC
- j) Review the template for bilateral letter Agreement (MoU) on AIDC
- k) Updating implementation status in the planning tables table and CNS/ATM implementation m matrix
- l) Discussions on the development of planner for AIDC implementation

## **3. Implementation status and exchange of experience gained and lesson learnt**

3.1 Following States/Administration provided information on the planning and implementation status to the Seminar: Representative from Thales also presented its input from an ATM system vendor's perspective.

- Australia
- China
- Hong Kong China
- Indonesia
- Japan
- New Zealand
- Thailand

It was recognized that complexities of implementation of AIDC requires common efforts of a team consisting of members with both technical and operational background.

3.2 It was also noted with interest that the flexibility of implementation exists in the form of a dedicated standalone AIDC server or processor installed separately interconnecting with other ATCC via the AFTN. It fetches the Flight Plan information from the ATM system. A sample of such kind of implementation was presented to the Seminar by Hong Kong China.

#### 4. Seminar evaluation

4.1 The Seminar provided implementation related information and guidance to the participants and provided a platform for sharing experience gained and lessons learnt. The Seminar was well received by the participants.

#### 5. Recommendations

5.1 The Seminar developed following recommendations:

- States were urged to implement AIDC in accordance with the regional air navigation plan and ICD for AIDC;
- The Seminar identified a number of items that should be considered for inclusion as new material in the Pan Regional ICD for AIDC. These items are listed in **Appendix A** to this paper. In following up this recommendation, the Secretariat has forwarded to USA, the coordinator for the development of a global Interface Control Document (ICD) for AIDC (Ms. Karen Chiodini e-mail: [Karen.L.Chiodini@faa.gov](mailto:Karen.L.Chiodini@faa.gov)).
- An AIDC implementation planner proposed by Hong Kong China was endorsed by the Seminar. The seminar recommended it to be adopted by APANPIRG as a planning tool for AIDC implementation. It was also recommended to make this tool available on the website for the States to update the information on-line. The recommended planner is provided in the **Appendix B** to the report of the Seminar.

Based on the recommendation above, meeting may consider proposing following draft Conclusion for the consideration of APANPIRG:

#### ***Draft Conclusion 22/xx – Regional AIDC Implementation Planner***

*That, the Asia/Pacific Regional AIDC Implementation Planner placed at Appendix XX to the Report on Agenda Item 3.4 be adopted to report Implementation progress in the Region.*

#### 6. Action required by the Meeting

6.1 The meeting is invited to note the information contained in this paper and consider endorse draft Conclusion as recommended by the AIDC Seminar.

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