



International Civil Aviation Organization

**The Ninth Meeting of the Asia/Pacific Aeronautical Information Services –
Aeronautical Information Management Implementation Task Force (AAITF/9)**

Pattaya, Thailand, 24 – 27 June 2014

Agenda Item 3: Review of Air Navigation Deficiencies in the AIS Field

ASIA/PACIFIC AIS-AIM AIR NAVIGATION DEFICIENCIES

(Presented by the Secretariat)

SUMMARY

This paper presents the AIS AIM related Air Navigation Deficiencies as identified by the Twenty-Fourth Meeting of the Asia/Pacific Air Navigation Planning and Implementation Regional Group (APANPIRG/24), and by the ICAO Regional Office, for review and update by the meeting.

1. INTRODUCTION

1.1 This working paper is provided to assist the Task Force to review and update AIS/AIM-related Air Navigation Deficiencies.

1.2 A significant number of new deficiencies have been included in the Air Navigation Deficiencies List, as previously discussed at:

- AAITF/8
- APANPIRG/24 (June 2013); and
- The 50th Conference of Directors General of the Asia and Pacific Regions (50th DGCA Conf., July 2013)

2. DISCUSSION

2.1 The Roadmap for Transition from AIS to AIM identifies a number of transition steps, to be implemented in 3 phases. Phase 1 – *Consolidation* includes *inter-alia* the following transition steps:

- P-05 — WGS-84 Implementation
- P-17 — Quality

2.2 Annex 15 to the Convention on Civil Aviation defines Standards and Recommended Practices for Aeronautical Information Services. Phase 1 of the Roadmap for Transition from AIS to AIM was aligned with Amendment 36 to Annex 15, which became applicable in November 2010. Phase 2 is aligned with Amendment 37 to the Annex, which became applicable in November 2013

2.3 AAITF maintains a record of implemented AIM transition steps for all Asia/Pacific States and Administrations in the form of the AIS – AIM Transition Table, available on the ICAO Asia/Pacific Regional Office website at <http://www.icao.int/APAC/Pages/edocs.aspx> and appended at **Attachment A**. The table is updated on receipt of new information. States and Administrations have been informed of the table on a number of occasions, and there have been several requests by the ICAO Regional Office for updated information. The most recent requests for updated information were distributed to all States and Administrations in State Letters AP026/14 (ATM) and AP044/14 (ATM), appended at **Attachments B and C**.

2.4 APANPIRG/24 and the 50th DGCA Conf. were informed that Air Navigation Deficiencies would be raised against unimplemented Phase 1 and Phase 2 Transition Steps that were incorporated in the current Edition of Annex 15 (Thirteenth Edition, applicable 18 November 2013).

2.5 The Asia/Pacific Seamless ATM Plan, adopted by APANPIRG/24, includes expectations for implementation of specific performance objectives, including those related to AIS/AIM. The Seamless Plan's Preferred Aerodrome/Airspace and Route Specifications (PARS) and Preferred ATM Service Levels (PASL) are expected to be implemented in two phases. Phase I, with expected implementation by November 2015, includes AIS-AIM Phase 1 and Phase 2 Transition Steps.

2.6 AAITF/8 discussed the lack of guidance material for AIS-AIM transition. The updated ICAO Doc 8126 – *AIS Manual*, incorporating guidance Phase 1 and 2 Transition Steps, is not yet available, but is expected to be available in 2nd or 3rd Quarter 2014.

2.7 Taking the expectations of the Seamless ATM Plan and the current status of global AIM implementation guidance material into consideration, Regional Office intends at this time to raise Air Navigation Deficiencies against Phase 1 AIS-AIM Transition Steps only. Phase 2 Transition Steps will be considered in 2015 and beyond.

WGS-84 Implementation

2.8 The Ninth Edition of Annex 15 (Amendment 28, July 1994) included the following Standard, applicable from 1 January 1998:

3.4.4 Geographical coordinates

3.4.4.1 Applicable as of 1 January 1998, published geographical coordinates indicating latitude and longitude shall be expressed in terms of the World Geodetic System - 1984 (WGS-84) geodetic reference datum.

2.9 The Twelfth Edition of the Annex (Amendment 33) included updated wording of the Standard, applicable from 25 November 2004:

3.7.1 Horizontal reference system

3.7.1.1 World Geodetic System — 1984 (WGS-84) shall be used as the horizontal (geodetic) reference system for international air navigation. Consequently, published aeronautical geographical coordinates (indicating latitude and longitude) shall be expressed in terms of the WGS-84 geodetic reference datum.

2.10 There has been no further change to the wording of this paragraph of the Annex.

2.11 Comprehensive guidance material concerning WGS-84 is contained in the ICAO *World Geodetic System — 1984 (WGS-84) Manual* (Doc 9674). The current version of this document is the Second Edition, published in 2002.

2.12 Four Asia/Pacific States are currently listed in the *APANPIRG Reporting Form on Air Navigation Deficiencies in the ATM Field in the Asia/Pacific* for unimplemented WGS-84. A further fifteen States will be added to the Form under this item, for consideration by APANPIRG/25 in September 2014.

Quality Management System

2.13 Amendment 30 to Annex 15, applicable from 2 November 2000, introduced the following Standard:

3.2 Quality system

3.2.1 Each Contracting State shall take all necessary measures to introduce a properly organized quality system containing procedures, processes and resources necessary to implement quality management at each function stage as outlined in 3.1.7 above. The execution of such quality management shall be made demonstrable for each function stage, when required.

2.14 The wording of the paragraph has been simplified, as included in Amendment 36 to the Annex, applicable from 18 November 2010:

3.2 Quality management system

3.2.1 Quality management systems shall be implemented and maintained encompassing all functions of an aeronautical information service, as outlined in 3.1.7. The execution of such quality management systems shall be made demonstrable for each function stage, when required.

2.15 Global guidance material for Quality Systems is included in the current edition of ICAO Doc 8126 – AIS Manual (Eighth Edition, published in 2003 and last amended in September 2009). Detailed Regional guidance material for Quality Systems is included in the *Guidance Manual for Aeronautical Information Services (AIS) in the Asia/Pacific Region*, last amended on 1 September 2010, and also available on the ICAO Asia/Pacific Regional Office website at <http://www.icao.int/APAC/Pages/edocs.aspx>

2.16 No States are currently listed in the APANPIRG deficiencies reporting form for unimplemented Quality Management Systems. 30 States will be added to the form under this item, for consideration by APANPIRG/25.

ATM/AIS SAR Deficiencies List

2.17 The ATM/AIS SAR Deficiencies List (**Attachment D**) is an excerpt of the APANPIRG deficiencies form, listing AIS/AIM related deficiencies for the Asia/Pacific Region. Including the abovementioned items, there are now three deficiencies identified in the list:

- WGS-84 not implemented (19 States)
- AIP Format (4 States)
- Quality Management System not implemented (30 States)

2.18 No deficiencies have been removed from the list since it was last considered by AAITF.

2.19 Each of the States added to the list will be separately notified, to provide the opportunity to update the information prior to APANPIRG/25.

3 ACTION BY THE MEETING

3.1 The meeting is invited to:

- a) note the information contained in this paper;
- b) provide written updates to the ICAO Regional Office if/when any of the listed deficiencies are rectified; and
- c) discuss any relevant matters as appropriate.

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Ref. T 3/12.10.1 – AP026/14 (ATM)

07 February 2014

Subject: State AIS-AIM Transition Status

Action required: To note and action accordingly

Sir/Madam,

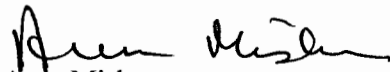
I would like to draw to your attention the 9th Meeting of the Aeronautical Information Service – Aeronautical Information Management Implementation Task Force (AAITF/9). This meeting is *tentatively* scheduled to be held in Bangkok from 24 to 27 June 2014, subject to change dependent upon the current civil unrest in Thailand. Confirmation of the meeting dates and venue will be provided in due course.

In preparation for this meeting States and Administrations are requested to update the information recorded in the State AIS-AIM Transition Table, which is available on the ICAO Asia and Pacific Regional Office web-page at the address below.

http://www.icao.int/APAC/Documents/edocs/AIS_AIM_Implementation_Table.pdf

Updated information should be provided to Bangkok Office by 30 May 2014. Phase 1 and 2 AIM Transition Elements that are either incomplete or unreported will be considered for inclusion in the APANPIRG Regional ATM/AIS/SAR Deficiencies List.

Accept, Sir/Madam, the assurances of my highest consideration.


Arun Mishra
Regional Director

Attachment: State AIS-AIM Transition Table



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Ref.: T 3/10.1.6 – AP044/14 (ATM)

2 April 2014

Subject: The Ninth Meeting of ICAO Aeronautical Information Services – Aeronautical Information Management Implementation Task Force (AAITF/9) (Pattaya, Thailand, 24 to 27 June 2014)

Action required: To reply as soon as possible but not later than **23 May 2014**

Sir/Madam,

I have the honour to invite your Administration to participate in the Ninth Meeting of the Aeronautical Information Services – Aeronautical Information Management Implementation Task Force (AAITF/9), which will be tentatively held at Pattaya Discovery Beach Hotel (D-Beach Hotel), Pattaya, Thailand from 24 to 27 June 2014. Please note that in the event of an improvement in the civil unrest situation in Thailand, the meeting may be relocated back to the Regional Office facilities in Bangkok. If this occurs, we will further advise by electronic means.

AAITF/9 is expected to review the progress of the transition from AIS to AIM and to identify further work to be undertaken regionally by the Task Force. In addition, the Regional AIM transition performance will be reported on the ICAO performance dashboard, so in accordance with State Letter Ref. T 3/12.10.1 – AP026/14 (ATM) dated 07 February 2014 States are requested to provide updated information for the AIS-AIM Transition Table to the ICAO APAC Office as soon as possible.

It is strongly recommended that parties submit papers to the meeting, which should be received by **no later than two weeks prior to the meeting date**, via email to the Regional Office. Participants are advised that ICAO is moving towards a 'paperless' meeting environment by increasing use of electronic media for the distribution of meeting papers and reports. Delegates should obtain copies of meeting materials from the Regional Office website at <http://www.icao.int/apac> prior to the commencement of the meeting.

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Enclosed herewith are the Provisional Agenda of AAITF/9 (**Attachment A**), the Registration Form (**Attachment B**) and the Meeting Bulletin (**Attachment C**). The Meeting Programme will be posted on the Regional Office website when it becomes available. I am requesting that you kindly provide the name(s) of the delegate(s) from your State that will be attending AAITF/9 by **23 May 2014**.

Accept, Sir/Madam, the assurances of my highest consideration.



Arun Mishra
Regional Director

Attachments:

- A — Provisional Agenda
- B — Registration Form
- C — Meeting Bulletin

REPORTING FORM ON AIR NAVIGATION DEFICIENCIES IN THE ATM FIELD IN THE ASIA/PACIFIC REGION (EXTRACT)

Identification		Deficiencies			Corrective Action			
Requirement	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action
WGS-84	Bangladesh	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Bangladesh	TBD	A
	Bhutan	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	2/7/1999	Data conversion completed, but not published		Bhutan	TBD	A
	Brunei Darussalam	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Brunei Darussalam	TBD	A
	Cook Islands	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Cook Islands	TBD	A
	Kiribati	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented				Kiribati	TBD	A

Identification		Deficiencies			Corrective Action			
Requirement	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action
WGS-84	Lao PDR	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Lao PDR	TBD	A
	Maldives	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Maldives	TBD	A
	Marshall Islands	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Marshall Islands	TBD	A
	Micronesia	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Micronesia	TBD	A
	Nauru	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented		Conferring with consultant		Nauru	TBD	A

Identification		Deficiencies			Corrective Action			
Requirement	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action
WGS-84	Pakistan	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Pakistan	TBD	A
	Palau	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Palau	TBD	A
	Philippines	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Philippines	TBD	A
	Samoa	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Samoa	TBD	A
	Sri Lanka	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Sri Lanka	TBD	A
	Thailand	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Thailand	TBD	A

Identification		Deficiencies			Corrective Action			
Requirement	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action
WGS-84	Tonga	Requirements of Paragraph 3.7.1 of Annex 15 WGS-84 - Not implemented	24/6/2014			Tonga	TBD	A
	Vanuatu	WGS-84 - Implemented at main airports	2/7/1999			Vanuatu	1999	A
AIP Format	Cook Islands	Requirements of Chapter 4 of Annex 15 AIP Format - not implemented	7/7/99			Cook Islands	ATM/AIS/SAR/G/16 (June 2006) updated - AIP COOK ISLANDS in new format in progress with assistance of New Zealand	A
	Kiribati	Requirements of Chapter 4 of Annex 15 AIP Format - not implemented	7/7/99			Kiribati	ATM/AIS/SAR/SG/18 (June 2009) was advised AIP in draft stage	A
AIP Format	Nauru	Requirements of Chapter 4 of Annex 15 AIP Format - not implemented	7/7/99			Nauru	ATM/AIS/SAR/SG/18 (June 2008) was advised work soon to start	A
	Papua New Guinea	Requirements of Chapter 4 of Annex 15 AIP Format - not implemented	7/7/99			Papua New Guinea	TBA	A

Identification		Deficiencies			Corrective Action			
Requirement	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action
Aeronautical Information Service Quality Management System	Afghanistan	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Afghanistan	TBD	A
	Australia	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Australia	TBD	A
	Bangladesh	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Bangladesh	TBD	A
	Bhutan	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Bhutan	TBD	A
	Brunei Darussalam	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Brunei Darussalam	TBD	A

Identification		Deficiencies			Corrective Action			
Requirement	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action
Aeronautical Information Service Quality Management System	Cambodia	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Cambodia	TBD	A
	Cook Islands	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Cook Islands	TBD	A
	DPR Korea	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			DPR Korea	TBD	A
	Fiji	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Fiji	TBD	A
	Indonesia	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Indonesia	TBD	A

Identification		Deficiencies			Corrective Action			
Requirement	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action
Aeronautical Information Service Quality Management System	Kiribati	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Kiribati	TBD	A
	Lao PDR	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Lao PDR	TBD	A
	Malaysia	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Malaysia	TBD	A
	Maldives	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Maldives	TBD	A
	Marshall Islands	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Marshall Islands	TBD	A

Identification		Deficiencies			Corrective Action			
Requirement	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action
Aeronautical Information Service Quality Management System	Micronesia	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Micronesia	TBD	A
	Myanmar	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Myanmar	TBD	A
	Nauru	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Nauru	TBD	A
	Nepal	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Nepal	TBD	A
	Pakistan	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Pakistan	TBD	A

Identification		Deficiencies			Corrective Action			
Requirement	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action
Aeronautical Information Service Quality Management System	Palau	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Palau	TBD	A
	Papua New Guinea	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Papua New Guinea	TBD	A
	Samoa	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Samoa	TBD	A
	Solomon Islands	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Solomon Islands	TBD	A
	Sri Lanka	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Sri Lanka	TBD	A

Identification		Deficiencies			Corrective Action			
Requirement	States/facilities	Description	Date first reported	Remarks	Description	Executing body	Target date for completion	Priority for action
Aeronautical Information Service Quality Management System	Thailand	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Thailand	TBD	A
	Timor Leste	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Timor Leste	TBD	A
	Tonga	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Tonga	TBD	A
	Vanuatu	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Vanuatu	TBD	A
	Viet Nam	Requirements of Paragraph 3.2.1 of Annex 15 Quality Management System - Not implemented	24/6/2018			Viet Nam	TBD	A