



International Civil Aviation Organization

**The Tenth Meeting of the Asia/Pacific Aeronautical Information Services –
Aeronautical Information Management Implementation Task Force
(AAITF/10)**

Bangkok, Thailand, 27-30 April 2015

Agenda Item 4: AIS-AIM Updates

REGIONAL AIM TRANSITION PROGRESS AND PROGRESS REPORTING

(Presented by the Secretariat)

SUMMARY

This paper presents a summary of AIM transition progress in the Asia/Pacific Region, as reported to the ICAO Regional Office since AAITF/9 we held in June 2014.

1. INTRODUCTION

1.1 The progress of the Asia/Pacific Region's AIS-AIM transition is recorded in the AIM Transition Table. Progress is recorded against each of the Transition Steps identified in the ICAO Roadmap for Transition from AIS to AIM. Where a Transition Step is not fully implemented, a progress towards full implementation is recorded as a percentage figure.

1.2 AIM implementation is also recorded in the Seamless ATM Reporting Form, to measure States' progress against the performance objectives of the Seamless ATM Plan. However, Seamless ATM reporting of AIM implementation does not provide the same level of detail as the AIM Transition Table, which provides a more detailed view of AIM progress for consideration by AAITF.

1.3 The progress recorded in the AIM Transition Table is currently used for Regional Performance Dashboards and the Global Air Navigation Report, both of which provide publicly available information about Regional and State AIM implementation progress.

1.4 The AIM Transition Table, and information on the Seamless ATM Reporting Form, are available on the ICAO Asia/Pacific Regional Office website at:

<http://www.icao.int/APAC/Pages/edocs.aspx>.

1.5 Regional Performance Dashboards may be viewed on the ICAO public website at:

<http://www.icao.int/safety/Pages/Regional-Targets.aspx>.

2. DISCUSSION

AIM Transition Monitoring

2.1 The AIM Transition Table was developed as an outcome of AAITF/6 (Bangkok, Thailand, 15 – 17 March 2011), and supported by the following Conclusions agreed by APANPIRG:

Conclusion 22/2 – AIM Transition Table

That, the ICAO APAC Regional Office maintains the AIM Transition Table as a means of tracking State transition to AIM, and to provide current details on AIM capability for interoperability, by publishing the State AIS – AIM Transition Table at Appendix B to Report on Agenda item 3.2 on the APAC web site.

2.2 The gathering of information from States was also supported most recently by State Letters A026/14 and A044/14 (ATM), and by the following APANPIRG Conclusion (APANPIRG/25, September 2014):

Conclusion APANPIRG/25-15: Aeronautical Information Management (AIM) Transition Reporting

That, considering:

the Asia/Pacific Seamless ATM Plan expectation of implementation of Phase 1 and Phase 2 AIS to AIM roadmap transition steps by November 2015;

the Aeronautical Information Services- Aeronautical Information Management Implementation Task Force (AAITF) Terms of Reference requirement to monitor AIM transition; and

the information used for regional and global ATM performance reporting,

States be urged to:

- a) verify the information currently recorded in the AIM Implementation Table (Attachment I to APANPIRG/25/WP07), and*
- b) update the information in the AIM Transition Table at least once annually, by April 30 each year..*

2.3 AAITF/9 was informed of States that had not provided any information on AIM transition progress. One of these States has since provided information (Tonga). States that have provided no information are:

Bhutan, Brunei Darussalam, Kiribati, Marshall Islands, Micronesia, Nauru, Samoa.

2.4 In the period since AAITF/9 (June 2014) the following 10 States have provided updated information on the implementation status of AIM Transition Steps to the ICAO Regional Office, including significant progress among several States:

Australia, Bangladesh, China, Fiji, Malaysia, Maldives, Sri Lanka, Thailand, Tonga and USA.

2.5 It should be noted that some of these updates were corrections provided following AAITF/9, or responses to Air Navigation Deficiencies proposed at AAITF/9. Only 3 States provided updated information directly responding to Conclusion APANPIRG 25-15 (Bangladesh, Malaysia, Sri Lanka). Any further updates received during or immediately following AAITF/10 will be included in the updated implementation table appended to the meeting report.

2.6 Some States have revised-down the previously reported implementation status of some elements. This may be due to a number of factors, including project re-assessment as more knowledge is developed, or the correction of information in previous reports that may have been based on inconclusive data.

2.7 The latest update of the AIM Transition Table is provided at **Attachment A**.

Electronic AIP

2.8 The ICAO Regional Office periodically examines Electronic AIP (eAIP) for accessibility, compliance with Annex 15 requirements relating to structure and content, and inclusion of AIP SUPP and AIC. The AIS – AIM Implementation Table is then updated accordingly.

Overall Progress

2.9 Phase 1 of the Roadmap for Transition from AIS to AIM was the Consolidation phase. SARPS supporting Phase 1 steps were defined in Annex 15 up to and including Amendment 36, which was effective in November 2010. In this phase States were expected to enhance the quality of their existing AIS products, to conform to existing SARPS. Regional implementation of Phase 1 is summarized as follows:

- 15 Administrations ($\approx 36\%$) have completed implementation of Phase 1;
- 16 Administrations ($\approx 38\%$) have partly implemented Phase 1;
- 11 Administrations ($\approx 26\%$) have not implemented any Phase 1 step; and
- Overall Regional implementation of Phase 1 $\approx 60\%$.

2.10 **Figure 1** illustrates current Asia/Pacific Region progress towards completion of Phase 1.

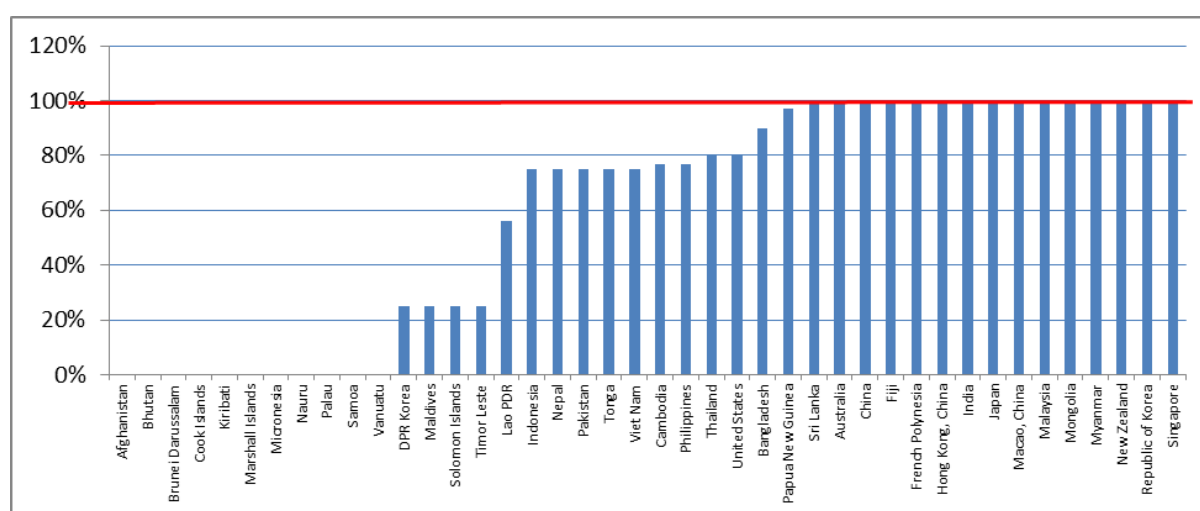


Figure 1: Regional Phase 1 Implementation Progress

2.11 Annex 15 Amendment 37, effective November 2013, included SARPS supporting Phase 2 – *Going Digital*. The purpose of this Phase was to establish data-driven process for the production of current products in all States, encouraging the use of computer technology or digital communications and introducing digital data from databases in their production processes. The emphases was not on the introduction of new products or services, but on the introduction of highly structured databases and tools.

2.12 Regional implementation of Phase 2 is summarized as follows:

- No Administrations have completed implementation of Phase 2;
- 25 Administrations ($\approx 59\%$) have partly implemented Phase 2
 - 11 Administrations ($\approx 26\%$) have completed more than 50% of Phase 2;

- 17 Administrations (≈ 40%) have not completed any Phase 2 1 step; and
- Overall Regional implementation of Phase 2 ≈ 27%.

2.13 **Figure 2** illustrates current Regional progress towards completion of Phase 2 of the Roadmap.

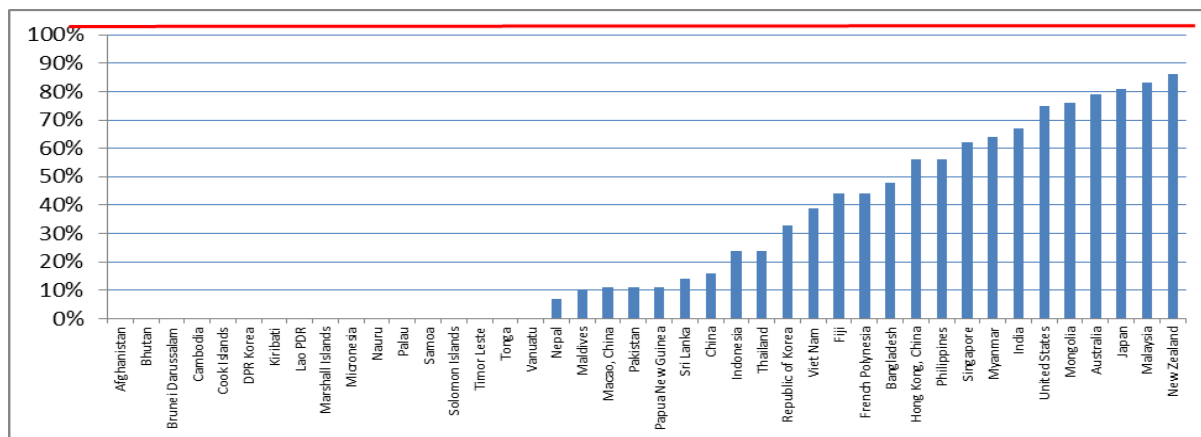


Figure 2: Regional Phase 2 Implementation Progress

2.14 The meeting should note that the performance objectives of the Asia/Pacific Seamless ATM Plan, adopted by APANPIRG/24 in June 2013, include the expectation that Phases 1 and 2 of the Roadmap for Transition from AIS – AIM will be completed by November 2015.

3. ACTION BY THE MEETING

3.1 The meeting is invited to:

- note the information contained in this paper;
- Note APANPIRG Conclusion 25-15, and provide updates of AIM transition progress to the ICAO Asia/Pacific Regional Office as soon as possible; and
- discuss any relevant matters as appropriate.

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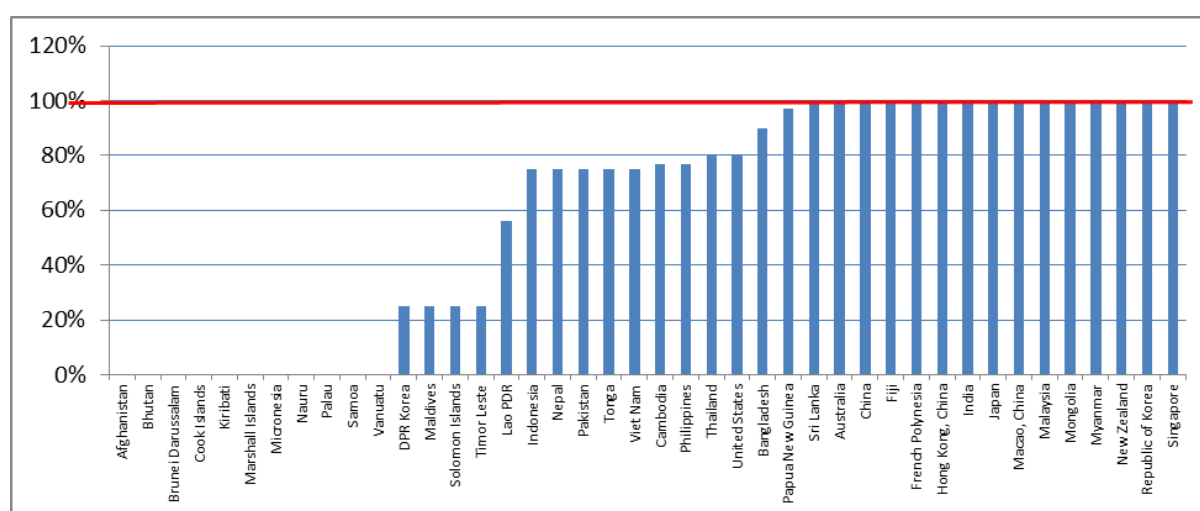


Figure 1: Regional Phase 1 Implementation Progress

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- Overall Regional implementation of Phase 2 $\approx 27\%$.

2.13 **Figure 2** illustrates current Regional progress towards completion of Phase 2 of the Roadmap.

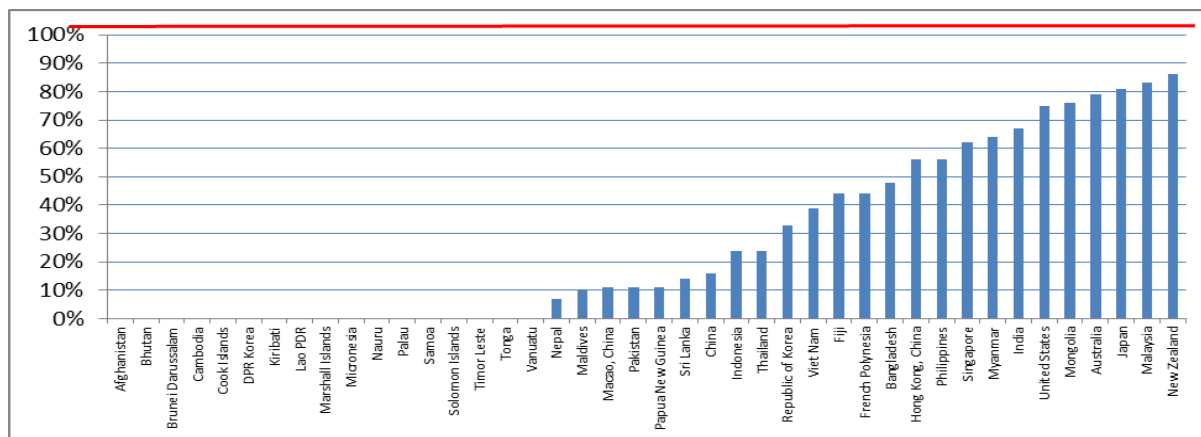


Figure 2: Regional Phase 2 Implementation Progress

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State AIS AIM Transition Table

Phase 1

- P-03 — AIRAC adherence monitoring
- P-04 — Monitoring of States' differences to Annex 4 and Annex 15
- P-05 — WGS-84 implementation
- P-17 — Quality

Phase 2

- P-01 — Data quality monitoring
- P-02 — Data integrity monitoring
- P-06 — Integrated aeronautical information database
- P-07 — Unique identifiers
- P-08 — Aeronautical information conceptual model
- P-11 — Electronic AIP
- P-13 — Terrain
- P-14 — Obstacles
- P-15 — Aerodrome mapping

Phase 3

- P-09 — Aeronautical data exchange
- P-10 — Communication networks
- P-12 — Aeronautical information briefing
- P-16 — Training
- P-18 — Agreements with data originators
- P-19 — Interoperability with meteorological products
- P-20 — Electronic aeronautical charts
- P-21 — Digital NOTAM

State Name = No reports since AAITF/9

= progress reported

= amended progress reported

Part = AIP Book, but no AIP SUP or AIC

Date Last Amended: 18 June 2014

	Phase 1 Consolidation (Am. 36 November 2010)				Phase 2 Going Digital (Amendment 37 November 2013)									Phase 3 Information Management (Amendment 38 November 2016)								
	P-03	P-04	P-05	P-17	P-01	P-02	P-06	P-07	P-08	P-11	P-13	P-14	P-15	P-09	P-10	P-12	P-16	P-18	P-19	P-20	P-21	
Afghanistan																						
Australia	√	√	√	√	80%	√	√	√	60%	Link	√	75%				10%	60%			90%	5%	
Bangladesh	√	√	60%	√	√	√	70%	√		Part		60%			20%				20%			
Bhutan																						
Brunei Darussalam																						
Cambodia	√	√	√	10%						Part					70%		40%					
China	√	√	√	√					40%	Link							√	√		√		
Hong Kong, China	√	√	√	√	√	√				Link	√	√					40%	√				
Macao, China	√	√	√	√						Link								√				
Cook Islands																	√					
DPR Korea			√																			
Fiji	√	√	√	√			√	√	√			√			√	√	√					
India	√	√	√	√	√	√	√	√	√			√										
Indonesia	√	√	√		50%	50%	20%			Link					80%		60%	20%	10%	20%		
Japan	√	√	√	√	√	√	√	√	√	Link	80%	50%		80%	20%	60%	√	√		20%	20%	
Kiribati																						
Lao PDR	√	√	25%																			
Malaysia	√	√	√	√	√	√	√	√	√	Link	50%	50%	50%	√	√	√	√			50%		
Maldives			√							Link												
Marshall Islands																						
Micronesia																						
Mongolia	√	√	√	√	√	√	√	80%	√	Link	65%	28%	5%	20%	10%	√	90%	√		√		
Myanmar	√	√	√	√	√	√	20%	20%	20%	Link	√	√	20%	20%	50%	50%	80%	80%	80%	80%	20%	
Nauru																						
Nepal	√	√	√									30%	30%									
New Zealand	√	√	√	√	√	√	√	√	75%	Link	√	80%	15%	80%								
Niue (NZ)																						
Pakistan	√	√	√									√		√	√	√		√			√	
Palau										part												
Papua New Guinea	√	√	√	90%				√								10%						
Philippines	√	√	60%	50%	√	50%	√	√	√	50%												
Republic of Korea	√	√	√	√	√			√	√								√	√		40%	90%	
Samoa																						
Singapore	√	√	√	√	√	√	50%	√		Link	40%	40%	25%	√	√	√	√	√				
Solomon Islands			√																			
Sri Lanka	√	√	√	95%			25%			Link					25%	25%	20%	25%				
Thailand	√	√	80%	40%	40%	30%				Link	25%	25%		10%	5%							
Timor Leste			√																			
Tonga		√	√	√																		
Vanuatu																						
Viet Nam	√	75%	√	25%	50%	50%	50%		√	Link				√	√		70%	50%				
USA ¹	√	√	20%	√	√	√	25%	√	50%	part	√	√	√	√	√		70%	√	25%	√	√	
France ²	√	√	√	√	√	√		√		Link												

¹ Includes American Samoa, Guam, Johnston, Kingman, Midway, Mariana, Palmyra, Wake

² Includes French Polynesia, New Caledonia, Wallis and Futuna Islands