International Civil Aviation Organization

Twentieth Meeting of the ICAO Aeronautical Information Services − Aeronautical Information Management Implementation Task Force (AAITF/20)

Chitose, Japan, 9 – 13 June 2025

Agenda Item 4: AIS-AIM Updates

REGIONAL IMPLEMENTATION STATUS OF AIM PERFORMANCE EXPECTATIONS

(Presented by the Secretariat)

SUMMARY

This paper presents a summary of the implementation progress of the regional performance expectations in the Asia/Pacific Regional Plan for Collaborative Aeronautical Information Management (AIM).

1.   INTRODUCTION

1.1   The Asia/Pacific Regional Plan for Collaborative AIM (Version 3.0) was amended by the Asia/Pacific AIS – AIM Implementation Task Force (AAITF) and approved by the Eleventh Meeting of the ATM Sub-Group of APANPIRG (ATM/SG/11, Singapore, 02 to 06 October 2023) under *Conclusion ATM/SG/11-8: Consolidation of Regional AIM Guidance Material*. The plan includes background information and general guidance, and a performance improvement plan. The performance objectives of the Plan are expected to be implemented in phases of *Regional AIM Capability* aligned, where practicable, with the performance objectives of the Asia/Pacific Seamless ANS Plan, as follows:

   i) **Phase I**, expected to be implemented immediately;

   ii) **Phase II**, expected to be implemented by 7 November 2019, and

   iii) **Phase III**, expected to be implemented by 27 November 2025.

1.2   The Regional AIM Implementation Monitoring and Reporting process measures State implementation of the performance expectations specified in Section 7 of the plan. Asia/Pacific Administrations should report their implementation status to the ICAO Asia/Pacific Regional Office at least once annually, by no later than 28 February each year, in accordance with the following ATM/SG Conclusion:

> ***Conclusion ATM/SG/10-1: Revised Reporting Date for ATM Regional Plans' Implementation Status Monitoring***
>
> *That,*
>
> 1. *States are urged to report their implementation status of the performance expectations of the following regional plans by not later than 28 February each year:*
>
>   a) *Regional ATM Contingency Plan;*
>   b) *Regional Framework for Collaborative ATFM;*
>   c) *Regional Plan for Collaborative AIM; and*

     d)   *Regional SAR Plan; and*

    2.   *The implementation reporting forms for each of these regional plans be updated to provide for reporting in percentages of implementation.*

    This Conclusion supersedes the status reporting requirements of Conclusions ATM/SG 5-3, 5-8 and 7-16

1.3   The Regional AIM Plan Monitoring and Reporting Form is available on the ICAO Asia/Pacific Regional Office website at: http://www.icao.int/APAC/Pages/edocs.aspx

2.   DISCUSSION

         <u>AIM Implementation Monitoring</u>

2.1   In 2025, the following 24 Administrations provided information on the implementation status of AIM to the ICAO Regional Office: Australia, Bangladesh, Bhutan, Cambodia, China, Hong Kong China, Macao China, DPR Korea, Fiji, India, Indonesia, Japan, Malaysia, Mongolia, Nepal, New Zealand, Pakistan, Philippines, Republic of Korea, Singapore, Sri Lanka, Thailand, United States and Viet Nam.

2.2   Hong Kong China, Japan and Singapore are the only Asia/Pacific States to have now reported completion of Regional AIM Capability Phase I, which was expected to be implemented immediately on approval of the Plan by ATM/SG due to the elements of this Phase relating to ICAO Standards and Recommended Practices (SARPs) that had already been applicable for many years.

2.3   Only Singapore has reported completion of Regional AIM Capability Phase II, expected to be implemented by 07 November 2019.

2.4   The latest update of the reported Regional implementation of AIM performance expectations is provided at **Attachment A** with data provided by State/administration updated as of 18 May 2025. Any further updates received during or in the week immediately following AAITF/20 would be included in the updated implementation table appended to the final version of the meeting report.

         <u>Overall Progress</u>

2.5   The following analysis of overall progress is based on data submitted as of 18 May 2025.

2.6   Regional implementation of **Regional AIM Capability Phase I,** is summarized as follows:

    i)   3 Administrations (7%) have completed implementation of Phase I *(no change from 2024)*;

    ii)   35 Administrations (81%) have partly implemented Phase I *(no change from 2024)*;

    iii)   5 Administrations (21%) have not reported implementation of any Phase I Performance Expectations *(no change from 2024)*; and

    iv)   Overall Regional implementation of Phase I – **62%,** an increase from the previous reporting period and a comparison of the Regional implementation of Phase I is shown in **Table 1**.

Table 1: Comparison of Regional implementation of Phase I

Year	Regional implementation of Phase I
2025	62%
2024	60%
2023	55%
2022	55%

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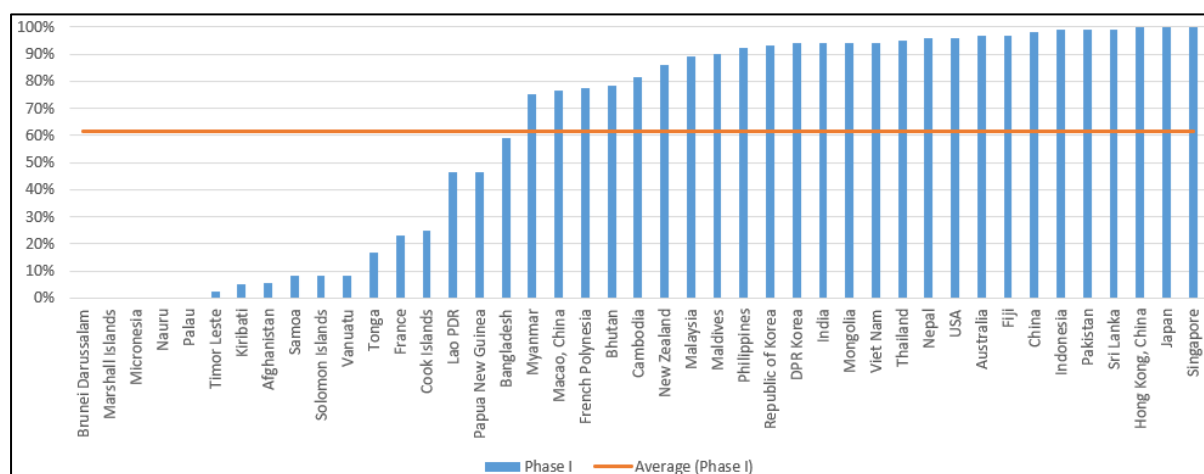

Figure 1: Regional Phase I Implementation Progress

2.8   Regional implementation of **Regional AIM Capability Phase II** expected to be implemented by 7 November 2019, is summarized as follows:

i)   1 Administration (2%) has completed implementation of Phase II *(no change from 2024)*;

ii) 35 Administrations (81%) have partly implemented Phase II *(no change from 2024)*;

iii) 7 Administrations (16%) have not reported implementation of any Phase II Performance Expectations *(no change from 2024)*; and

iv) Overall Regional implementation of Phase II – **44%** an increase from the previous reporting period and a comparison of the Regional implementation of Phase II is shown in **Table 2**.

Table 2: Comparison of Regional implementation of Phase II

Year	Regional implementation of Phase II
2025	44%
2024	42%
2023	42%
2022	40%

2.9   **Figure 2** illustrates current Asia/Pacific Region progress towards completion of Phase II.
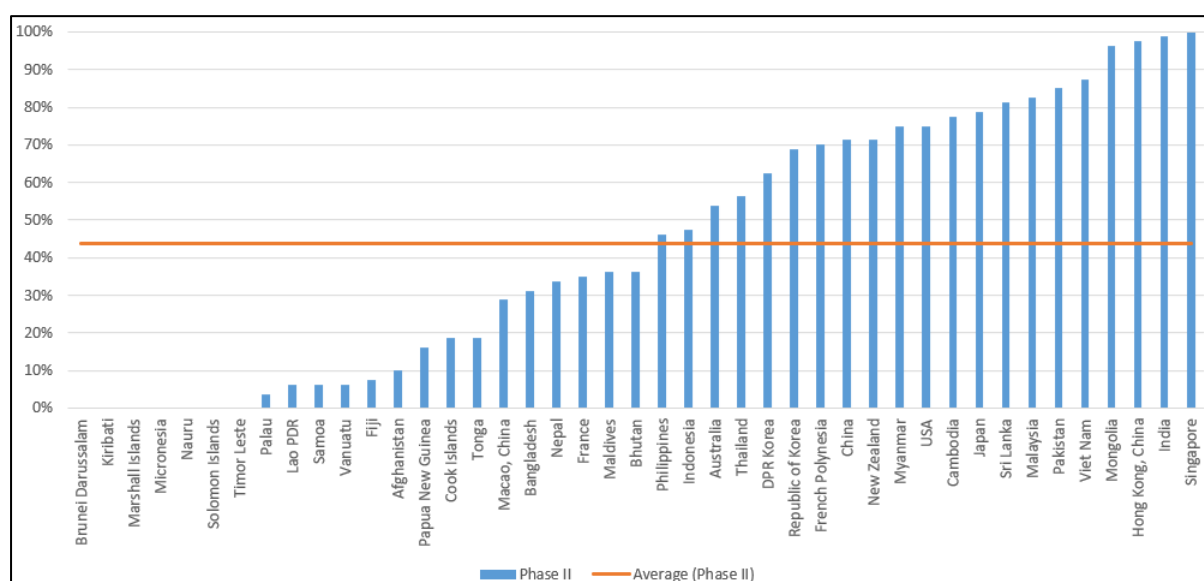
Figure 2: Regional Phase II Implementation Progress

2.10   Overall regional implementation of Regional AIM Capability Phases I&II is summarized as follows:

i)   1 Administration (2%) has completed implementation of Phases I&II *(no change from 2024)*;

ii)   38 Administrations (89%) have partly implemented Phases I&II *(no change from 2024)*;

iii) 4 Administrations (9%) have not reported implementation of any Phase I or Phase II Performance Expectations *(no change from 2023)*; and

iv)   Overall Regional implementation of Phases I & II – **54%** an increase from the previous reporting period and a comparison of the Regional implementation of Phase I & II is shown in **Table 3**.

Table 3: Comparison of Regional implementation of Phase I & II

Year	Regional implementation of Phase I & II
2025	54%
2024	53%
2023	51%
2022	48%

2.11   **Figure 3** illustrates current Asia/Pacific Region progress towards completion of Phases I & II.
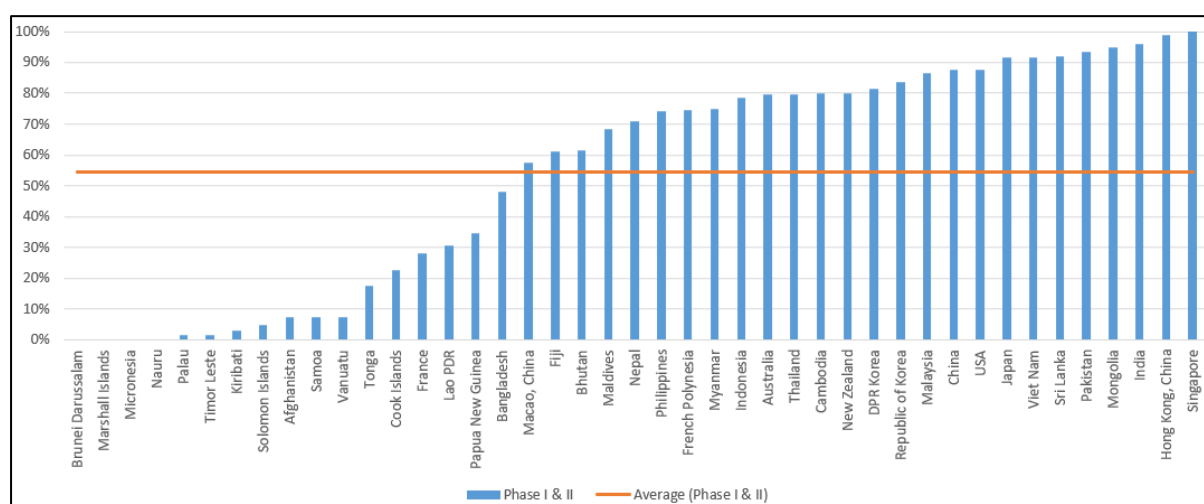
Figure 3: Regional Phase I & II Implementation Progress

2.12   Regional implementation of **Regional AIM Capability Phase III** (expected implementation **27 November 2025**) is summarized as follows:

    i)   No Administrations has completed implementation of Phase III;

    ii) 25 Administrations (58%) have partly implemented Phase III *(increased by 3 Administrations)*;

    iii) 18 Administrations (42%) have not reported implementation of any Phase III Performance Expectations *(decreased by 3 Administrations)*; and

    iv) Overall Regional implementation of Phase III – **20%**, an increase from the previous reporting period and a comparison of the Regional implementation of Phase III is shown in **Table 4**.

Table 4: Comparison of Regional implementation of Phase III

Year	Regional implementation of Phase III
2025	20%
2024	17%
2023	15%
2022	12%

2.13   **Figure 4** illustrates current Asia/Pacific Region progress towards completion of Phase III.

5
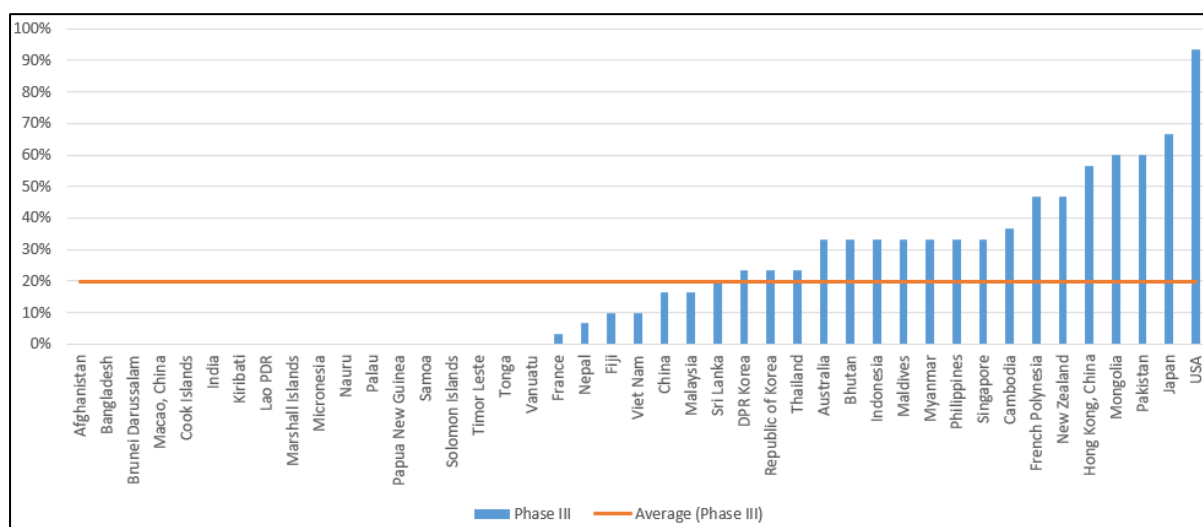
Figure 4: Regional Phase III Implementation Progress

3.   ACTION BY THE MEETING

3.1   The meeting is invited to:

a)   note the information contained in this paper;

b)   note the continuing poor progress, particularly in Phase I and Phase II which consolidates implementation of key SARPS that have been in existence for many years;

c)   note *Conclusion ATM/SG/10-1*, and ensure the Regional AIM Plan Monitoring and Reporting Form is used for all future reporting of AIM implementation progress by not later than 28 February each year; and

d)   discuss any relevant matters as appropriate.

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Regional Implementation Status of AIM Performance Expectations

Date Last Amended: May 18, 2025

	Phase 1												Phase 2								Phase 3		
	1				2	3	4	5	6	7	8	9	10	11	12	13	14			15	16	17	18
	1a	1b	1c	1d													14a	14b	14c				
Afghanistan	0%	0%	0%	0%	0%	0%	40%	0%	30%	0%	0%	0%	0%	0%	30%	0%	0%	0%	0%	50%	0%	0%	0%
Australia	100%	100%	100%	100%	100%	100%	100%	60%	100%	100%	100%	100%	100%	70%	100%	60%	0%	100%	0%	0%	100%	0%	0%
Bangladesh	100%	40%	100%	50%	0%	60%	50%	30%	30%	70%	80%	100%	60%	20%	50%	0%	0%	90%	0%	30%	0%	0%	0%
Bhutan	100%	100%	100%	100%	0%	100%	40%	20%	80%	100%	100%	100%	50%	50%	70%	40%	10%	10%	20%	40%	100%	0%	0%
Brunei Darussalam	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Cambodia	100%	100%	90%	90%	30%	100%	70%	60%	80%	80%	80%	100%	80%	70%	80%	80%	90%	90%	30%	100%	30%	30%	50%
China	100%	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	90%	40%	70%	100%	100%	20%	60%	80%	100%	30%	10%	10%
Hong Kong, China	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	80%	100%	70%	50%	50%
Macao, China	100%	100%	100%	100%	0%	100%	100%	100%	50%	0%	100%	70%	0%	50%	50%	50%	0%	0%	0%	80%	0%	0%	0%
Cook Islands	0%	100%	0%	0%	0%	0%	100%	0%	30%	0%	0%	70%	0%	0%	100%	0%	0%	0%	0%	50%	0%	0%	0%
DPR Korea	100%	100%	100%	100%	80%	50%	100%	100%	100%	100%	100%	100%	80%	50%	100%	70%	30%	20%	60%	90%	30%	30%	10%
Fiji	100%	100%	100%	100%	70%	100%	100%	100%	100%	100%	100%	90%	20%	20%	20%	0%	0%	0%	0%	0%	20%	10%	0%
French Polynesia	100%	100%	80%	100%	50%	0%	80%	80%	80%	100%	60%	100%	80%	100%	100%	80%	50%	50%	0%	100%	60%	60%	20%
India	100%	100%	100%	100%	30%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	90%	100%	0%	0%	0%
Indonesia	100%	100%	100%	100%	90%	100%	100%	100%	100%	100%	100%	100%	80%	70%	100%	50%	10%	10%	10%	50%	50%	50%	0%
Japan	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	80%	80%	100%	100%	80%	90%	0%	100%	100%	100%	0%
Kiribati	0%	0%	0%	0%	0%	0%	0%	0%	30%	0%	0%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Lao PDR	100%	100%	100%	100%	0%	100%	0%	0%	0%	30%	0%	30%	0%	0%	20%	0%	0%	30%	0%	0%	0%	0%	0%
Malaysia	100%	100%	100%	70%	50%	100%	50%	100%	100%	100%	100%	100%	50%	50%	100%	100%	90%	90%	90%	90%	0%	0%	50%
Maldives	100%	100%	100%	100%	0%	100%	80%	100%	100%	100%	100%	100%	100%	100%	90%	0%	0%	0%	0%	0%	100%	0%	0%
Marshall Islands	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Micronesia	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Mongolia	100%	100%	100%	100%	30%	100%	100%	100%	100%	100%	100%	100%	100%	70%	100%	100%	100%	100%	100%	100%	100%	50%	30%
Myanmar	100%	100%	100%	100%	0%	100%	0%	100%	30%	100%	100%	70%	0%	50%	50%	100%	100%	100%	100%	100%	0%	0%	100%
Nauru	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Nepal	100%	100%	100%	100%	100%	100%	60%	100%	100%	90%	100%	100%	40%	0%	60%	0%	60%	60%	50%	0%	20%	0%	0%
New Zealand	100%	100%	100%	100%	0%	100%	50%	100%	80%	100%	100%	100%	0%	80%	100%	90%	100%	80%	40%	80%	0%	60%	80%
Pakistan	100%	100%	100%	100%	100%	100%	90%	100%	100%	100%	100%	100%	70%	70%	100%	100%	80%	100%	60%	100%	80%	50%	50%
Palau	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	30%	0%	0%	0%
Papua New Guinea	50%	100%	50%	50%	0%	100%	50%	50%	30%	50%	0%	30%	0%	50%	50%	30%	0%	0%	0%	0%	0%	0%	0%
Philippines	100%	100%	100%	100%	10%	100%	100%	100%	100%	100%	100%	100%	100%	20%	100%	100%	0%	0%	0%	50%	100%	0%	0%
Republic of Korea	100%	100%	100%	100%	80%	80%	80%	100%	100%	80%	100%	100%	80%	50%	100%	70%	50%	50%	50%	100%	50%	20%	0%
Samoa	0%	0%	0%	0%	0%	0%	0%	0%	30%	0%	0%	70%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%
Singapore	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	0%	0%
Solomon Islands	0%	0%	0%	0%	0%	0%	0%	0%	30%	0%	0%	70%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Sri Lanka	100%	100%	100%	100%	100%	100%	100%	100%	100%	90%	100%	100%	100%	70%	100%	90%	100%	50%	40%	100%	20%	20%	20%
Thailand	100%	100%	100%	100%	80%	100%	90%	100%	100%	80%	100%	90%	100%	100%	100%	30%	20%	0%	0%	100%	30%	20%	20%
Timor Leste	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Tonga	0%	100%	0%	0%	0%	0%	0%	0%	30%	0%	0%	70%	0%	0%	100%	0%	0%	0%	0%	50%	0%	0%	0%
Vanuatu	0%	0%	0%	0%	0%	0%	0%	0%	30%	0%	0%	70%	0%	0%	0%	0%	0%	0%	0%	50%	0%	0%	0%
Viet Nam	100%	100%	100%	100%	70%	100%	100%	80%	90%	90%	100%	100%	100%	90%	100%	80%	90%	90%	70%	80%	10%	10%	10%
USA	100%	100%	100%	90%	70%	100%	100%	100%	100%	100%	100%	90%	70%	80%	100%	100%	0%	80%	70%	100%	90%	100%	90%
France	0%	100%	0%	0%	0%	0%	0%	0%	80%	0%	0%	100%	0%	0%	100%	100%	0%	0%	0%	80%	0%	0%	10%
	66%	**73%**	**66%**	**64%**	**36%**	**63%**	**57%**	**58%**	**64%**	**60%**	**61%**	**74%**	**44%**	**43%**	**64%**	**47%**	**32%**	**38%**	**27%**	**55%**	**30%**	**16%**	**14%**

Phase 1

1 Developed policy and enacted primary legislation and supporting regulations for Annex 4 and Annex 15 SARPS, and PANS-AIM Procedures including:

1a establishment of an organizational structure for the safety oversight of aeronautical information service providers;;

1b requirements for monitoring of differences from Annex 4 and Annex 15 SARPS;

1c requirements for aeronautical information/data originators;

1d Requirement for AIS quality management systems and processes to be established by all entities in the end-to-end AIS data chain.

2 Ensured National Air Navigation Plans developed in accordance with the Beijing Declaration, and the provisions of the Asia/Pacific Seamless ANS Plan, include the implementation planning for each of the performance expectations of the Regional Plan for Collaborative AIM.

3 Established AIS either as a separate entity within or, ideally, separated from the civil aviation administration in accordance with the guidance provided in ICAO Doc 8126 – AIS Manual Chapter 2 (2.4.1.2 and 2.4.1.3).

4 Developed competency requirements for AIS personnel, including English language proficiency requirements, supported by a program of regular performance assessment.

5 Established regular programs of engagement with all stakeholders.

6 Established quality management processes for aeronautical information under the SARPS in Annex 15.

7 Established formal agreements between AIS providers and aeronautical data originators under the relevant SARPS in Annex 15 specifying the content, quality, maintenance and timing of the provision of aeronautical data that required to be promulgated in AIP, and the application of quality management process.

8 Provided full access to relevant ICAO Annexes and Documents to all personnel having responsibility for the origination, reception, management, publication and/or distribution of aeronautical information and aeronautical data.

9 Ensured full compliance of all aeronautical products with common reference systems in accordance with the relevant SARPS and procedures in Annex 15 and PANS-AIM: WGS-84, MSL/EGM-96 and UTC

Phase 2

10 Adapted policy, primary legislation and supporting regulations for Annex 4, Annex 15 SARPS and PANS AIM to support transition to AIM: implementation of digital databases of aeronautical information and production of electronic AIP and other Aeronautical Information Products.

11 Adapted training, competency and performance assessment of AIS personnel the establishment and maintenance of digital databases and generation of data sets of aeronautical information, quality management systems, and electronic AIP.

12 Implemented and maintained quality management systems encompassing all functions of an AIS.

13 Established and maintained digital databases of aeronautical information (PANS-AIM Appendix 1)

14 Managed terrain, obstacle and aerodrome mapping data through the establishment of:

14a a terrain database, from which terrain data sets conforming with Annex 15 Section 5.3.3.3 may be generated;

14b an obstacle database, from which obstacle data sets conforming with Annex 15 Section 5.3.3.4 may be generated; and

14c an aerodrome mapping database, from which aerodrome mapping data sets conforming with Annex 15 Section 5.3.4 may be generated.

15 Implemented internet-accessible electronic AIP generated from a digital database of aeronautical information.

Phase 3

16 Adapted policy, primary legislation and supporting regulations for Annex 4 and Annex 15 SARPS, and PANS AIM procedures to support the automated exchange of aeronautical data in a SWIM environment: Interoperability with meteorological products, Communications networks for the exchange of aeronautical data and Electronic aeronautical charts.

17 Adapted training, competency development and performance assessment of AIS personnel to support the automated exchange of aeronautical data in a SWIM environment, and the generation of electronic aeronautical charts.

18 Exchanged digital data sets of aeronautical information in a SWIM environment, aligned with ASBU DAIM-B2/1, provided Aeronautical Information briefing with integrated meteorological information and Electronic aeronautical charts.

Color Code:

Green - Increased implementation

Red - Decreased implementation

Dark Blue - No Change