Regional Implementation & Planning

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TO/AIM

Global AIM Conference (Rio de Janeiro, Brazil, 17-19 May 2016)

17-19 May 2016

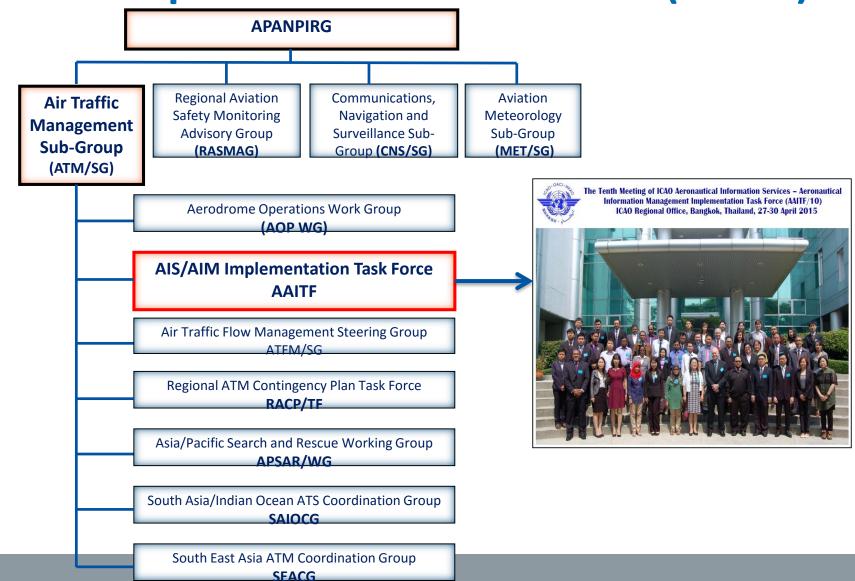
Outline

- APAC
- MID
- AFI
- NACC



Asia Pacific





- Guidance Manual for AIS in the Asia/Pacific Region:
- http://www.icao.int/APAC/Documents/edocs/AIS_GM.pdf

Includes:

- Chapter 1 AIS Quality Systems
- Chapter 2 Selection and Training Guidelines for AIS
- Chapter 3 Operating Procedures for AIS Dynamic Data (OPADD)

- Guidance Manual for AIS in the Asia/Pacific Region:
- Updated by AAITF/10 (2016)
 - New Appendix: Interim AIM Transition Guidance
 - Delayed delivery of global guidance documents
 - Regionally developed guidance
 - 4 identified priority steps from AIM transition roadmap

- Guidance Manual for AIS in the Asia/Pacific Region:
- Updated by AAITF/10 adopted by APANPIRG/26 (Sep 2015)
 - New Appendix: Interim AIM Transition Guidance
 - P-17 Quality
 - P-18 Agreements with data originators
 - P-16 Training
 - P-11 Electronic AIP

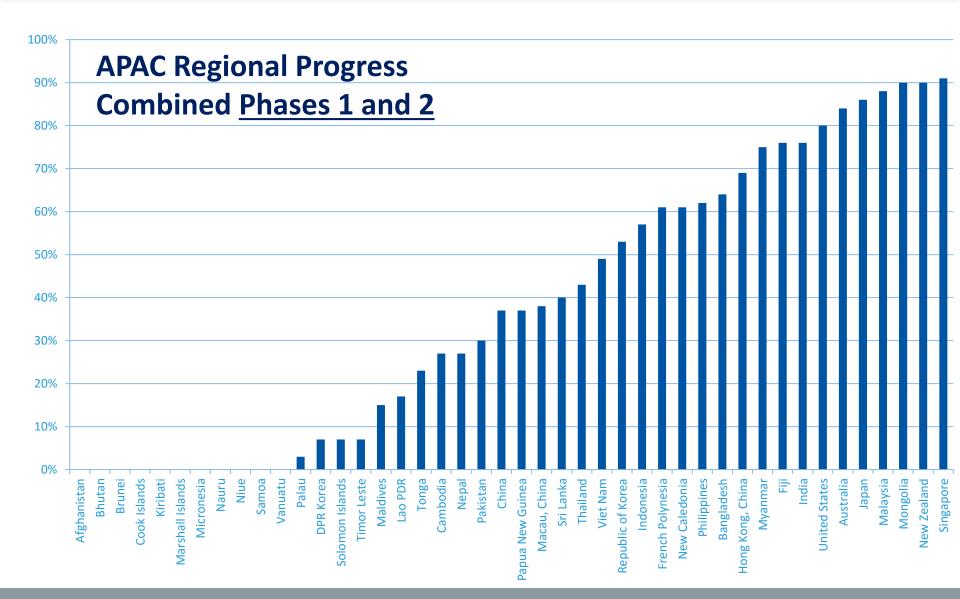
APAC AIS-AIM Transition Progress

AIM Transition Table

- Maintained by AAITF
- Measures progress against Roadmap steps/timelines
- Updated on receipt of progress information from States
- Posted on ICAO APAC Office website
- Is used to support AIS Deficiencies raised under APANPIRG

Transition
Roadmap –
Implementation
Status

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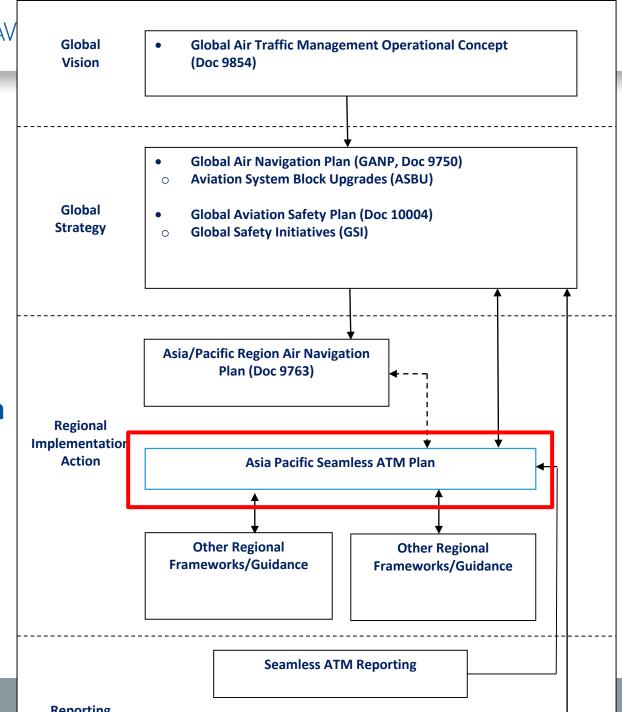
The Challenges

- Lack of global guidance material (ICAO)
 - Quality Manual
 - Training Manual
 - Updated AIS Manual
- Organizational
 - Lack of State policy and financial support for AIS/AIM
 - Poor understanding of the criticality of aeronautical information to aviation operations



Regional Plans and Expectations

Asia/Pacific
Seamless ATM Plan



Asia/Pacific Seamless ATM Plan

- Seamless ATM Plan (Update 2016)
- 10 Regional Priorities
 - Including B0-DATM
 - Seamless ATM Plan Target by November 2015 (Phase I)
 - ATM systems should be supported by digitally-based AIM systems through implementation of Phase 1 and 2 of the AIS-AIM Roadmap Indicator
 - Metric % of Phase 1 and Phase 2 elements completed

Asia/Pacific Seamless ATM Plan

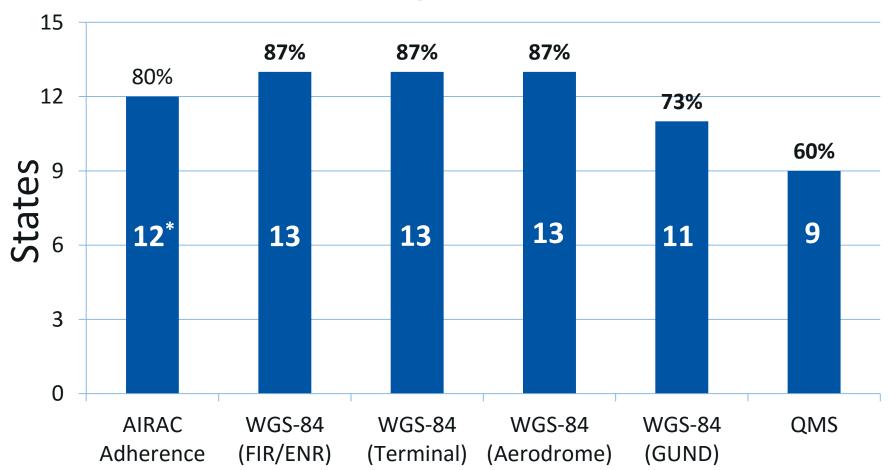
- Seamless ATM Plan (Update 2016)
- 10 Regional Priorities
 - Including B0-DATM
 - Seamless ATM Plan Target by November 2019 (Phase II)
 - ATM systems should be supported by complete implementation of AIM Phase 3 using, at a minimum, AIXM version 5.1
 - Metric % of AIM transition steps completed

MID



Global AIM Conference – 16-19 May 2016

Status of AIM Implementation (Phase I)



^{*} MID Office is accredited to 15 States

MID Region AIM implementation Roadmap (Phase II)

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	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4		
AIXM																					1	The target is to have 60% by 2015, 80% by 2017 and 100% by 2019
eAIP																					1	The target is to have 60% by 2016, 70% by 2018 and 100% by 2020
Terrain A-1																					2	The target is to have 50% by 2015, 70% by 2018
Obstacle A-1																					2	The target is to have 40% by 2015, 60% by 2018
Terrain A-4																					2	The target is to have 50% by 2015, 100% by 201
Obstacle A-4																					2	The target is to have 50% by 2015, 100% by 201
Terrain A-2a																					3	The target is to have 30% by 2017, 50% by 2018
Obstacle A-2a																					3	The target is to have 30% by 2017, 50% by 2018
Data Quality Monitoring																					3	Target for 2018: To be implemented by 50% of the States that have implemented QMS at least f the segment originator-AIS (excluding the
Data Integrity Monitoring																					3	segment AIS-End user)
Agreement with data originators																					3	Target for 2018: 50% of the States that have implemented QMS
Terrain and Obstacle for Areas 2b, 2c, 2d and 3																					4	Optional based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs
Aerodrome Mapping																					4	Optional based on the States' decision to be reflected in the States' national Regulations and AIM National Plans, in accordance with operational needs

White: Not started

Yellow: Initial Target Orange: Intermediate Target Green: Target for full implementation

National AIM Implementation Roadmap Template

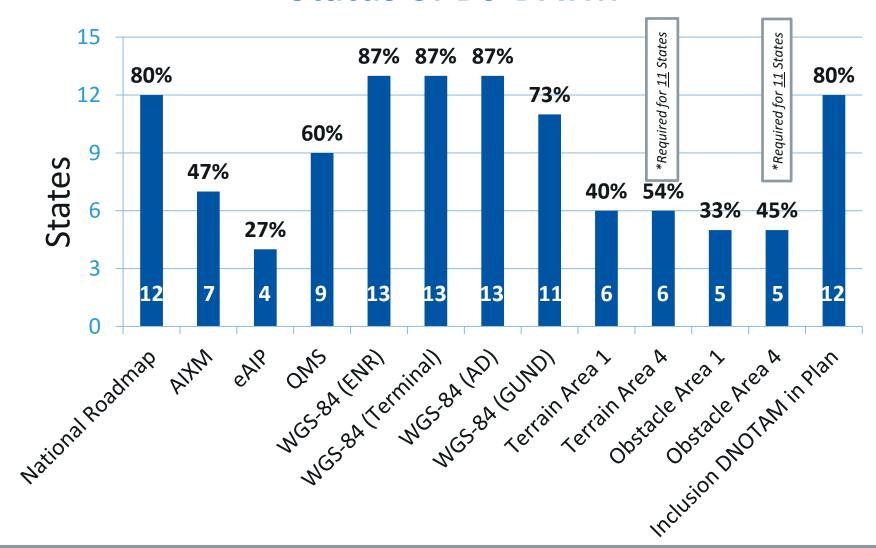
Phase/Step	Step			Timeline	Start	End	Remarks		
	No.	2014	2015	2016	2017	2018	1		
Obstacle A-2	P-14		49		t of 1	5 \			Please specify implementation of Area 2a, 2b, 2c and/or2d
Terrain A-3	P-13			. Loan		7)			
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AD Mapping	P-15			ales	(80%	0)	1		
Phase III									
Aeronautical data exchange	P-09				rovi				
Communication networks	P-10		th	eir N	ation	nal A	IM		
Aeronautical information briefing	P-12		lm	plen	nenta	ation			
Training	P-16								
Agreement with data originators	P-18		R	padn	nap,	usin	9		
Interoperability with meteorological products	P-19		th	e Tei	mpla	te.			
Electronic aeronautical charts	P-20								
Digital NOTAM	P-21								

	Not Started
Legend	In Progress
_	Implemented

B0-DATM (MID Region Air Navigation Strategy)

	_		
Elements	Applicability	Performance Indicators/Supporting Metrics	Targets
1- National AIM Implementation Plan/Roadmap	All States	Indicator: % of States that have National AIM Implementation Plan/Roadmap Supporting Metric: Number of States that have National AIM Implementation Plan/Roadmap	80% by Dec. 2016 90% by Dec. 2018
2-AIXM	All States	Indicator: % of States that have implemented an AIXM-based AIS database Supporting Metric: Number of States that have implemented an AIXM-based AIS database	60% by Dec. 2015 80% by Dec. 2017 100% by Dec. 2019
3-eAIP	All States	Indicator: % of States that have implemented an IAID driven AIP Production (eAIP) Supporting Metric: Number of States that have implemented an IAID driven AIP Production (eAIP)	60% by Dec. 2016 80% by Dec. 2018 100% by Dec. 2020
4-QMS	All States	Indicator: % of States that have implemented QMS for AIS/AIM Supporting Metric: Number of States that have implemented QMS for AIS/AIM	70% by Dec. 2016 90% by Dec. 2018
5-WGS-84	All States	Indicator: % of States that have implemented WGS-84 for horizontal plan (ENR, Terminal, AD) Supporting Metric: Number of States that have implemented WGS-84 for horizontal plan (ENR, Terminal, AD) Indicator: % of States that have implemented WGS-84 Geoid Undulation Supporting Metric: Number of States that have implemented WGS-84 Geoid Undulation	Horizontal: 100% by Dec. 2017 Vertical (GUND): 90% by Dec. 2018
6-eTOD	All States	Indicator: % of States that have implemented required Terrain datasets Supporting Metric: Number of States that have implemented required Terrain datasets Indicator: % of States that have implemented required Obstacle datasets Supporting Metric: Number of States that have implemented required Obstacle datasets	Area 1: Terrain: 50% by Dec. 2015, 70% by Dec. 2018; Obstacles: 40% by Dec. 2018, 60% by Dec. 2018 Area 4: Terrain: 50% by Dec. 2015, 100% by Dec. 2018; Obstacles: 50% by Dec. 2018; Obstacles: 50% by Dec. 2018
7-Digital NOTAM*	All States	Indicator: % of States that have included the implementation of Digital NOTAM into their National Plan for the transition from AIS to AIM Supporting Metric: Number of States that have included the implementation of Digital NOTAM into their National Plan for the transition from AIS to AIM	80% by Dec. 2016

Status of B0-DATM



Challenges/Lessons Learned

- Main challenges
 - QMS, AIXM (and consequently eAIP) and eTOD are the main challenges
 - MIDAD is the main challenging Regional initiative
- Main reasons for the non-implementation:
 - Financial issues
 - Lack/shortage of competent human resources (needs for training)
 - 4 (out of 15) MID States (27%) faced with serious security issues (assistance missions and support could not be provided)
- Guidance materials and iKITs (implementation KITs) could help States with the implementation

ICAO Support (some recent initiatives)

- Development of the MID Region AIM Implementation Roadmap
- Development of template for National AIM Implementation Roadmap
- Methodology for reporting and assessing the progress of AIM Transition
- MID Region AIM Database (MIDAD) Project (ongoing)
- Assistance missions to States
- "Guidance for the AIM Planning and Implementation in the MID Region" (MID Doc 00X)



MID Doc 00x

INTERNATIONAL CIVIL AVIATION ORGANIZATION

MIDDLE EAST AIR NAVIGATION PLANNING AND IMPLEMENTATION REGIONAL GROUP (MIDANPIRG)

GUIDANCE FOR AIM PLANNING AND IMPLEMENTATION IN THE MID REGION

EDITION APRIL, 2016

Implementation Monitoring

- Monitoring of the implementation is carried out through:
 - MID eANP Volume III;
 - Regional Performance Dashboard (MID Dashboard is being updated to include all the B0-DATM elements)
 - MIDANPIRG AIM Sub-Group; and
 - ICAO MID Regional Office (Secretariat).

AFI



Global AIM Conference – 16-19 May 2016

AFI PLANNING AND IMPLEMENTATION REGIONAL GROUP (APIRG)

The APIRG has identified the following main issues:

- The need to engage "management Levels" in understanding the transition to AIM
- Better understanding of new vision of AIM at all levels
- Need for guidance with respect to implementation
- Better understanding of the benefits associated with AIM



Follow up by AFI AIM TF meetings

- The AFI AIM Task Force is the Regional body established under the APIRG to advance AIM implementation.
- The main objectives of the AFI AIM TF is **to provide guidance to States**, in accordance with the requirements of AFI Part of the Draft e-ANP that has been presented at the 12th Air Navigation Conference.
- The AFI AIM Task Force has also reviewed the ASBU modules related to interoperability and data (AIM) and noted that operational improvements must be outlined in a logical stepwise approach (block upgrades) that includes:
 - Identify the operational benefit
 - Determine the necessary procedures
 - Nominate the required technology
 - Develop the business case
 - Propose a preliminary strategy for regulatory approval



Transition Roadmap – Implementation Status

	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
Angola	В	В	В	N N	В	В	В	В	В	В	В	В	N	N	N	N	N	N	N	N	N
Benin	С	С	С	В	0	0	0	0	0	С	В	В	В	0	0	0	0	0	0	0	N
Burkina Faso	С	С	c	В	0	0	0	0	0	С	В	В	В	0	0	0	0	0	0	0	N
Botswana	c	С	c	В	В	В	0	В	В	В	В	В	В	0	0	0	0	0	0	0	N
Burundi	N	N	В		N	N	N	N						N		N	N			N	
Cameroon	C	С	С	N B	0	0	0	0	N O	N C	N B	N	N B	0	N O	0	0	0	0	0	N N
Cape Verde	В	В	С	В	В	В	В	В	В	В	В	В	В	N	N	N	0	0	0	0	N
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Comoros	С	С	С	В	0	0	0	0	0	С	В	В	В	0	0	0	0	0	0	0	N
Congo	С	С	c	В	0	0	0	0	0	С	В	В	В	0	0	0	0	0	0	0	N
Cote d'Ivoire	С	С	С	В	0	0	0	0	0	С	В	В	В	0	0	0	0	0	0	0	N
Democratic				_																	
Republic of	N	N	В	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Congo																					
Djibouti	В	В	С	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Egypt	С	С	С	В	0	0	0	0	0	0	В	В	В	0	0	o	0	0	0	0	N
Equatorial																					
Guinea	С	С	С	В	0	0	0	0	0	С	В	В	В	0	0	0	0	0	0	0	N
Eritrea	N	N	В	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Ethiopia	С	В	С	N	В	В	В	В	В	В	В	В	В	N	N	N	N	N	N	N	N
Gabon	С	С	С	В	0	0	0	0	0	С	В	В	В	0	0	0	0	0	0	0	N
Gambia	С	С	С	В	В	В	В	В	В	O	В	В	В	N	N	N	N	N	N	N	N
Ghana	В	В	В	В	В	В	В	В	В	В	В	В	В	N	N	N	N	N	N	N	N
Guinea	С	С	С	В	В	В	В	В	В	В	В	В	В	0	0	0	0	0	0	0	N
Guinea Bissau	С	С	С	В	0	0	0	0	0	С	В	В	В	0	0	0	0	0	0	0	N
Kenya	С	С	С	С	0	0	0	0	0	С	0	0	0	0	0	0	0	0	0	0	N
Lesotho	N	N	N	В	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
Liberia	С	С	С	В	В	В	В	В	В	В	В	В	В	0	0	0	0	0	0	0	N
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Malawi	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
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Nigeria	С	В	С	В	В	В	В	В	В	В	В	В	В	N	0	0	0	0	0	0	N
Rwanda	N	N	В	N	N	N	N	N	N	N	N	N	N	N	0	0	0	0	0	0	N
Sao Tome and Principe	В	N	В	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N

Follow up on AFI-CAD Concept

The AFI-CAD Business Plan was agreed by the Air Navigation Commission on 8 March 2011; the ANC noted that the transition in the AFI Region will benefit if a robust communication infrastructure exist. The ANC further called upon the Secretariat to support/monitor the transition of AIS to AIM through region mechanism.

Following the review of the revised AFI Plan by the 12 AN Conference, it was agreed that the Concept of AFI-CAD when implemented, will offer all AIM related tasks including even the classic AIM services to reduce the ANSP's efforts and timelines needed by the States on their way to the AIS/AIM Transition process. This has also been re-confirmed by Recommendation 3/8 (c) of the 12thAN Conference

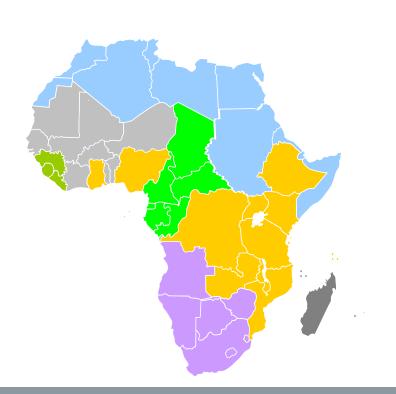
The AFI States are facing a lot of challenging tasks in the AIS/AIM Transition process and it is anticipated that implementation of the AFI-CAD would provide the following solutions: 1. Support to the e-AIP Production, 2. Support to the charting production, 3. Other tailor made solutions taking into account the necessities of States

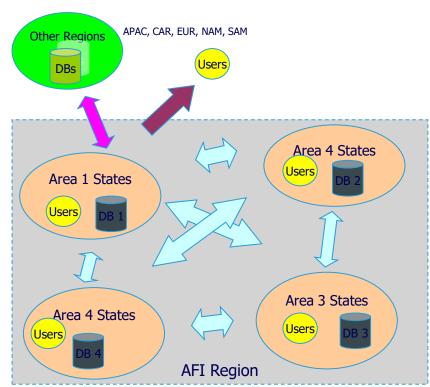
Follow-up on ANC 12 Rec.3/8 (c):

- To this effect, it is noted that ASECNA is progressively engaged in implementing in accordance with the AFI-CAD Concept, a Regional AIS Database to accommodate and enable all the States in the Western and Central African Region to effectively transition from AIS to AIM. In accordance with the AFI-CAD Concept, South Africa has invited AFI States to join the South African Regional AIS Database as an enabler in the transition process to enhance AIM implementation within the AFI Region.
- The APIRG has endorsed the possibility of AFI States migrating to the ASECNA Regional AIS Database as an enabler in the transition process, and also the possibility of AFI States migrating to the South African Regional AIS Database as an enabler, in accordance with the AFI-CAD Concept as per Recommendation 3/8 (c) of the 12th AN Conference.

Vision

4 AIS/AIM Databases across the AFI Region where consistent and high quality aeronautical data of the Region will be made available to airspace users and others

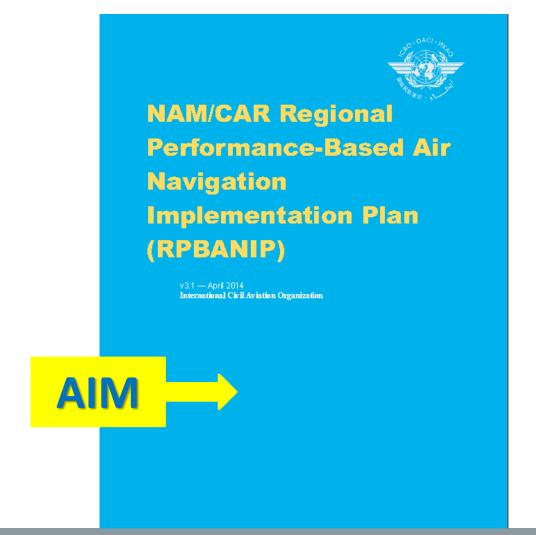




NACC



Performance Framework for Air Navigation Systems



Aircraft movements forecast 2011-2031 (in thousands)

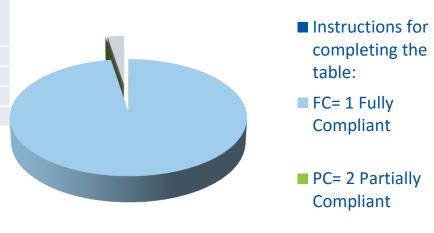
								Averag	e Annua	al Growt	h (%)
Major Route Groups	2011	2012	2013	2014	2016	2021	2031	2011-	2016-	2021-	2011-
								2016	2021	2031	2031
South Atlantic	38.49	40.62	42.94	45.39	50.90	62.57	97.85	5.7	4.2	4.6	4.8
Mid Atlantic	60.49	64.29	68.32	72.61	81.70	102.16	173.80	6.2	4.6	5.5	5.4
Intra-South America	147.99	162.33	178.06	195.31	230.74	317.83	614.95	9.3	6.6	6.8	7.4
Between South America and											
Central America/ Caribbean	76.70	83.81	92.43	101.93	123.96	172.22	357.43	10.1	6.8	7.6	8.0
Intra-Central America/Caribbean	266.44	292.26	320.58	351.64	410.72	561.59	1072.08	9.0	6.5	6.7	7.2
Between North America and											
South America/Central America/Caribbean	595.73	636.07	680.28	729.62	821.20	975.69	1446.78	6.6	3.5	4.0	4.5
TOTAL	1185.84	1279.38	1382.60	1496.50	1719.22	2192.06	3762.89	7.7	5.0	5.6	5.9

Source OAG data

Phase 1

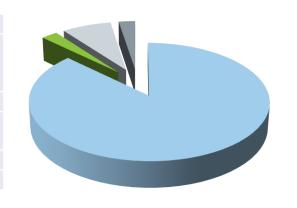
P-03 AIRAC

		P-03 AIRAC	
Instructions for completing the table:		Count	Percentage no segmented
FC= 1	Fully Compliant	38	97.43%
PC= 2	Partially Compliant	0	0.00%
NC= 3	Not Compliant	1	2.56%
N/A= 0	Not Applicable	0	0



P-04 (EFOD)

		P-04 (EFOD)	
Instructions for completing the table:		Count	Percentage no segmented
FC= 1	Fully Compliant	34	87.18%
	Partially Compliant	1	2.56%
NC= 3	Not Compliant	3	7.69%
N/A= 0	Not Applicable	1	2.56%



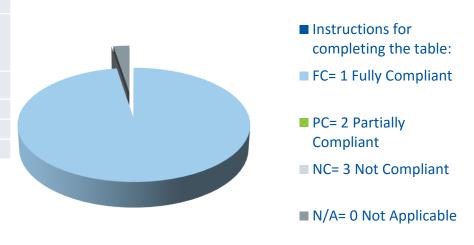
- Instructions for completing the table:
- FC= 1 Fully Compliant
- PC= 2 Partially Compliant
- NC= 3 Not Compliant
- N/A= 0 Not Applicable



Phase 1

P-05 WGS84

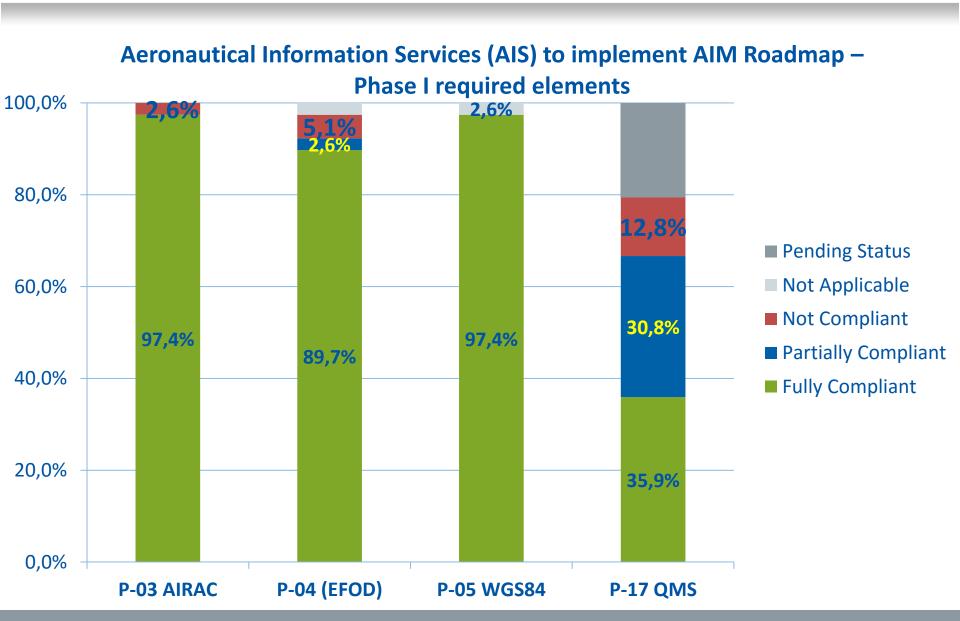
		P-05 WGS84	
Instructions for completing the table:		Count	Percentage no segmented
FC= 1	Fully Compliant	38	97.43%
PC= 2	Partially Compliant	0	0.00%
NC= 3	Not Compliant	0	2.56%
N/A= 0	Not Applicable	1	0



P-17 QMS

		P-17 QMS	
Instructions for completing the		Count	Percentage no segmented
table:			
FC= 1	Fully Compliant	14	35.89%
PC= 2	Partially Compliant	12	30.76%
NC= 3	Not Compliant	5	12.82%
N/A= 0	Not Applicable	0	0
PS/=4	Pending Status	8	20.51%

Phase 1



St. Kitts & Nevis (T&T)

St. Vincent and the

Grenadines (T&T)
Trinidad & Tobago

St. Lucia (T&T)

United States

Phases 1 to 3

40%

40%

40%

65%

100%

Phase 3

25%

25%

25%

35%

95%

State	Phase 1 Consolidation	Phase 2 Going Digital (estimated)	Information Management (estimated)
Antigua & Barbuda (T&T)	87.5%	40%	25%
Bahamas	62.5%	11%	0%
Barbados	87.5%	40%	20%
Belize (COCESNA)	87. 5%	55%	35%
Canada	100%	100%	89%
Costa Rica	100%	20%	0%
Cuba	100%	44%	30%
Dominican Republic	100%	60%	35%
El Salvador	87.5%	11%	0%
Grenada (T&T)	7 5%	40%	25%
Guatemala	87.5%	11%	0%
Haiti	7 5%	10%	0%
Honduras (COCESNA)	87.5%	55%	35%
Jamaica	87.5%	10%	0%
Mexico	100%	78%	40%
Nicaragua	100%	11%	10%

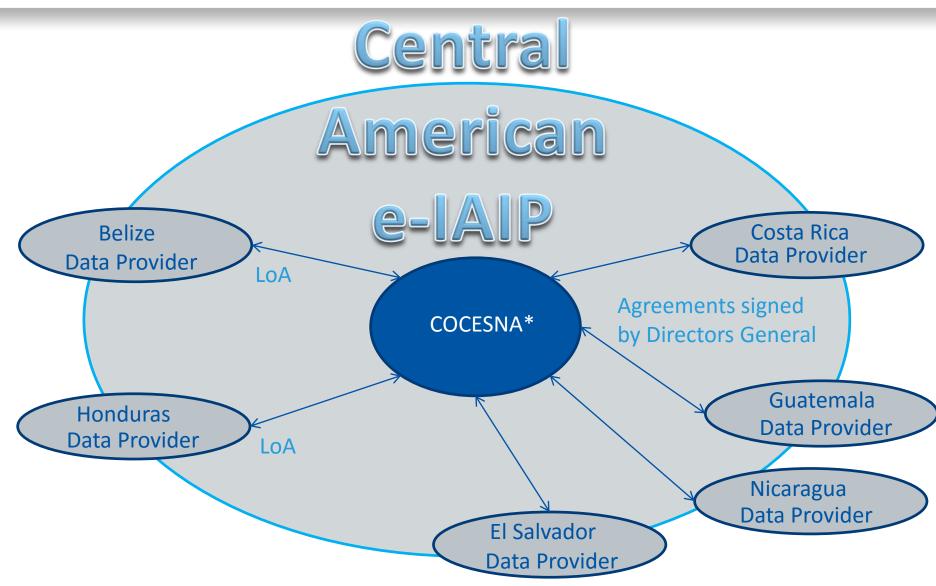
87.5%

87.5%

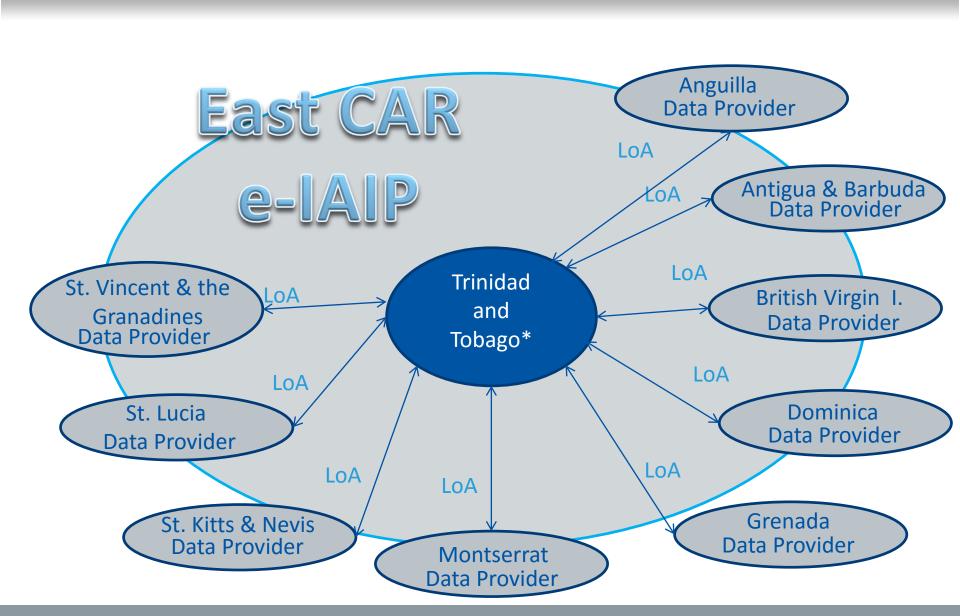
87.5%

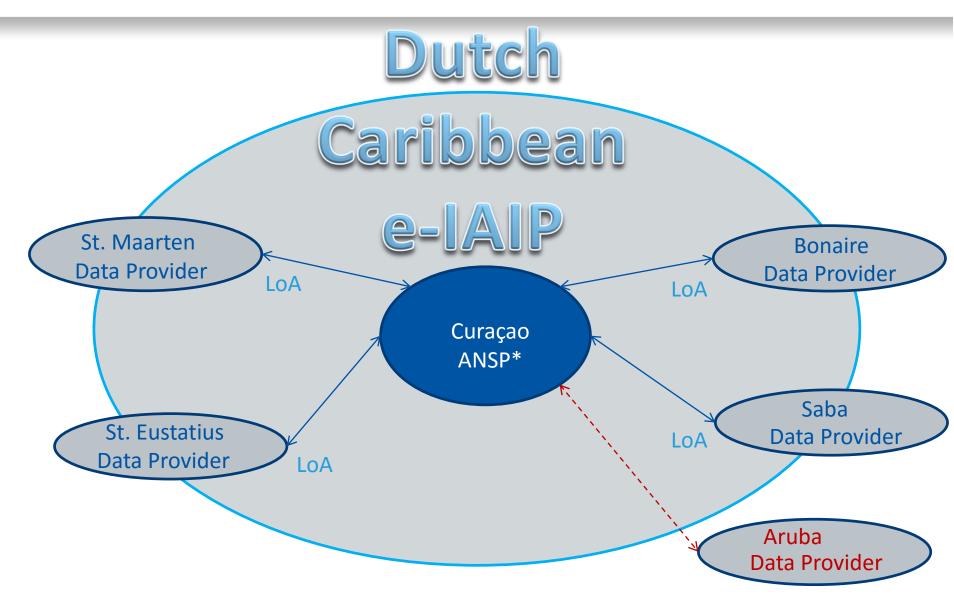
100%

100%



*Corporación Centroamericana de Navegación Aérea





LoA under preparation between Authorities (not yet included in Dutch e-IAIP)

Conclusions

- Status of implementation varies according to the region
- No Region has fully implemented Phases 1 and 2.
- Need for global guidance material (ICAO)
- Many States challenged by the lack of State/organizational focus on this critical air navigation domain.
- Need for enhanced State policy and financial support for AIS/AIM
- Need to establish a better understanding of the criticality of aeronautical information to aviation operations
- Intra-regional and interregional cooperation for an expeditious transition from AIS to AIM in a harmonized manner
- Importance of implementing the foundation of the AIS –AIM roadmap



