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NACC/DCA

North American, Central American and Caribbean Directors of Civil Aviation

Performance Review of Regional Implementations Groups Mayda Ávila

Regional Officer, Communications, Navigation and Surveillance



Agenda Item 6.3 - P/06



ANI/WG Progress Overview

Operational Progress

ATFM

NAM/CAR ATFM TF and CADENA agreed to work together.

Both agreed to integrate their work plan to only one, they are currently in the process of developing the operational concept.

SAR

Established ANI/WG SAR Task Force, as part of the ANI/WG structure, in order to support SAR implementation in the CAR Region and to lead with activities to support compliance of Regional Performance Objectives

PBN

New Regional agreement was developed on April 2019 for implementation of airspace optimization. the next target date for regional route implementation would be 25 February 2021.



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UNITING AVIATION

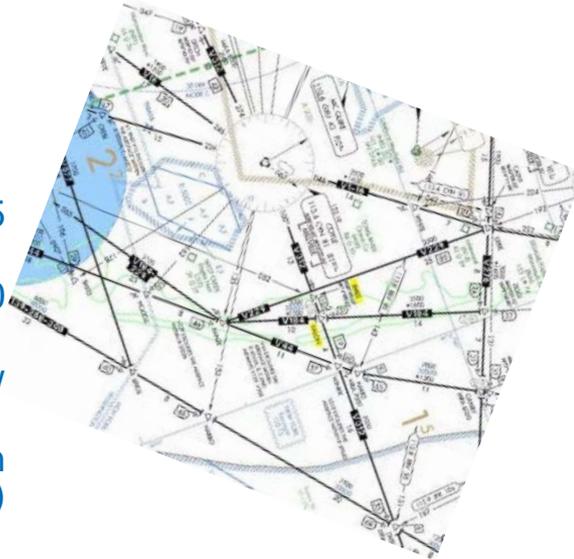
NO COUNTRY LEFT BEHIND



ANI/WG Progress Overview

The following States reported Area Navigation (RNAV) 5 route implementation as of January 2019:

- ✈ The Havana FIR (Cuba) implemented sixteen (16) new RNAV 5 routes.
- ✈ The Central America FIR implemented five (5) new RNAV5 routes.
- ✈ The Kingston FIR (Jamaica) implemented nine (9) new RNAV 5 routes.
- ✈ The Piarco FIR (Trinidad and Tobago) implemented three (3) new RNAV 5 routes
- ✈ The San Juan FIR (Puerto Rico) implemented three (3) new RNAV 10 routes
- ✈ The Santo Domingo FIR (Dominican Republic) implemented four (4) new RNAV 5 routes.
- ✈ The Florida Metroplex route system (Q and Y routes) was implemented on 8 November 2018: The Jacksonville Centre (ZJX), Miami Centre (ZMA) and San Juan Centre (ZSU) utilize this new route structure.





ANI/WG Progress Overview

CONTINGENCY

- ✈ ICAO NACC Regional Office convened the First Regional Contingency and Emergency Planning and Response Meeting (NAM/CAR/CONT/1), held in Mexico City, Mexico, from 12 to 14 March 2019. Outcomes:
 - ✈ To address contingency and emergency situations from a regional perspective.
 - ✈ Developed a draft CAR Regional Contingency Response Plan
 - ✈ Agreed on the necessary arrangements to prepare for the 2019 hurricane season.
 - ✈ Conduct a basic table top exercise to analyze different contingency scenarios according to different high probability threats to the eastern Caribbean and Central America.



ANI/WG Progress Overview

ADS-B Implementation



**Mandatory Implementation by January 01, 2020:
Automatic Dependent Surveillance - Broadcast (ADS-B)
out equipment.**

CAR States Region:

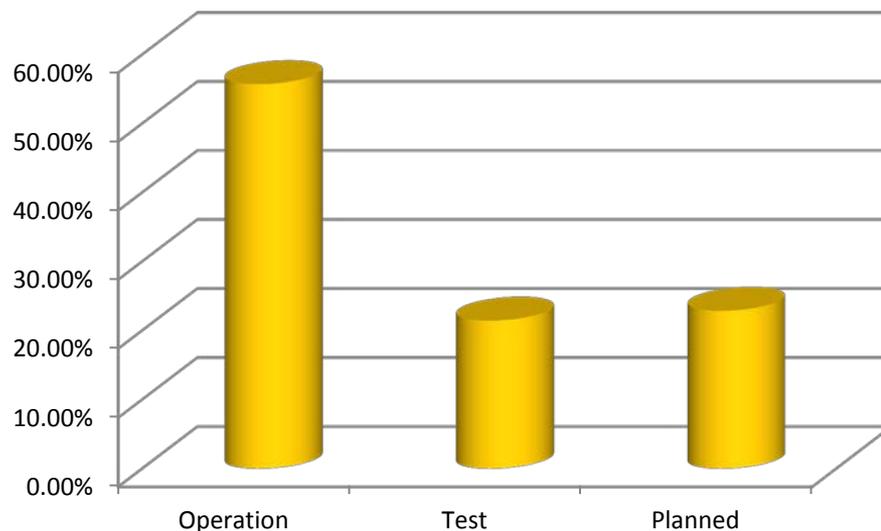
- ✈ States that are going to implement ADS-B by January 01, 2019; publish its regulation by 30 October 2019; and
- ✈ States that have not yet done so conduct an analysis on how their operations may be affected by the implementation of the ADS-B in the adjacent States and that they take the necessary measures to carry out actions that may be required



ANI/WG Progress Overview

AIDC AND NAM/ICD IMPLEMENTATION

✈ The AIDC Task Force informed that up to date 39 interphases are operating, 12 in test and 14 already planned, plus three in implementation status. Two more are still being planned.



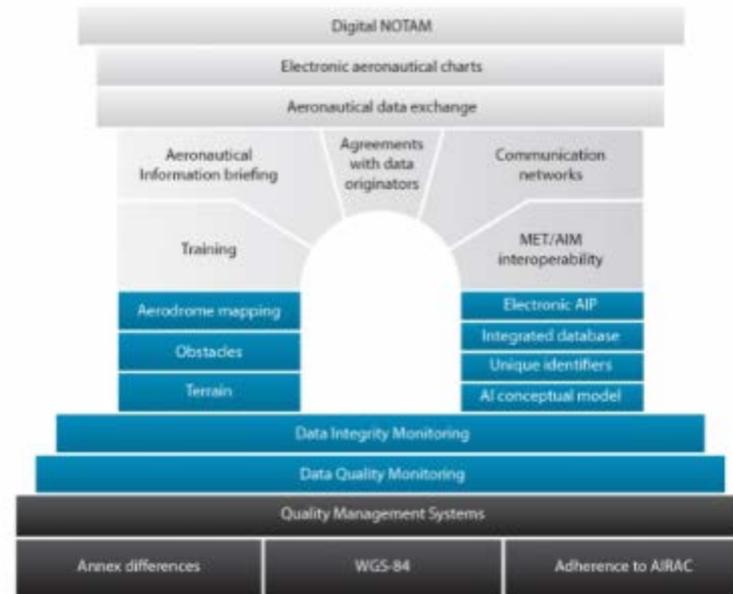


ANI/WG Progress Overview

AIM IMPLEMENTATION

AIM Implementation Strategy

- ❑ Identify the common Challenges
Define Regional indicators, metrics and targets
- ❑ Regional priorities: Quality, eAIP, Digital Datasets (AIXM)
- ❑ Several efforts by Regions and States will be necessary to advance AIM implementation.





ANI/WG Progress Overview

AIM Challenges

Institutional challenges:

- ✦ Lack of effective regulatory frameworks to support AIM transition
- ✦ Lack of clear requirements for stakeholders involved, quality of services is impacted
- ✦ Lack of understanding that multiple and uncoordinated rules can be costly
- ✦ Lack of competent staff/training

Service providers challenges:

- ✦ Quality issues in the aeronautical information products
- ✦ Not easy relationship with data originators
- ✦ Lack of competent resources, need for training
- ✦ Digital datasets are still considered immature for implementation: reliable exchange of data between stakeholders is still a challenge.

Technological challenges:

- ✦ AIXM poses challenges in terms of data exchanges;
- ✦ AIXM is very permissive
- ✦ Major bilateral coordination (LoAs) is required;
- ✦ Lack of global business rules to facilitate the exchange of information;
- ✦ Need for mapping rules to convert AIXM to ARINC;
- ✦ No incremental AIXM updates.



ANI/WG Progress Overview

NATIONAL AIR NAVIGATION PLAN

✈ During 2018 and according with GREPECAS requirements the following National Air Navigation Plans were development:

Mexico	El Salvador	Barbados
Antigua and Barbuda	Honduras	Haiti
Santa Lucia	Nicaragua	Saint Vincent and the Grenadines
Belize	Costa Rica	Trinidad and Tobago
Guatemala	Dominican Republic	COCESNA

✈ It is planned that ICAO will support during 2019 the development of its air navigation plans to the following States:

Bahamas	Cuba
Dominica	Jamaica
Saint Kitts y Nevis	



ANI/WG Progress Overview

AMHS IMPLEMENTATION

✈ The Ad-hoc AMHS group has completed the activities due to the implementation of this system, with the start-up of the AMHS system in Haiti, the CAR region completes this phase.





NAM/CAR Communication Network

MEVA IV PHASE

- ✈ **New MEVA Phase (MEVA IV);** New Communication Network for NAM/CAR and SAM Regions communication to support emergency communication needs and future implementations.
- ✈ **New MEVA Phase (MEVA IV);** will be technical solution that must include all the possible modern, secure and reliable associated equipment, telecommunication technologies, data technologies available that will serve to improve a private aviation communication network.

Item	Area	States Members
1	Swim	United States Trinidad and Tobago Jamaica
2	Interoperability	Aruba Bahamas ICAO NACC
3	Voice	Dominican Republic Cuba
4	Surveillance	COCESNA Curacao Haiti
5	Others	Cayman Mexico Panama

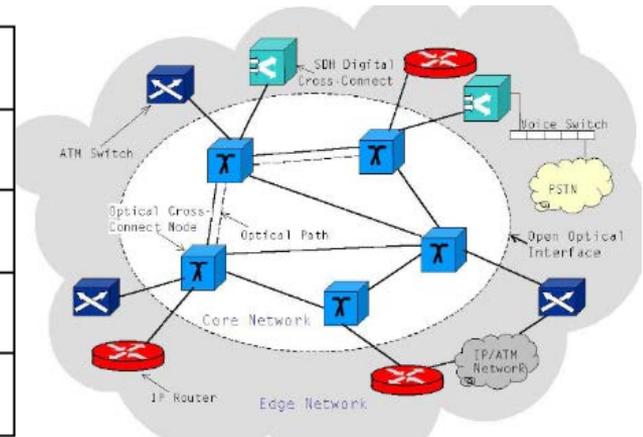


NAM/CAR Communication Network

MEVA IV PHASE

✈ The different phases were explained to the TMG. The following timeline was proposed for the migration process to MEVA 4.0:

Year	Activity
2019-2020	Technical Exploration
2021	Request for Information
2022	Request for Proposal
2023	Implementation & Migration





NAM/CAR Communication Network

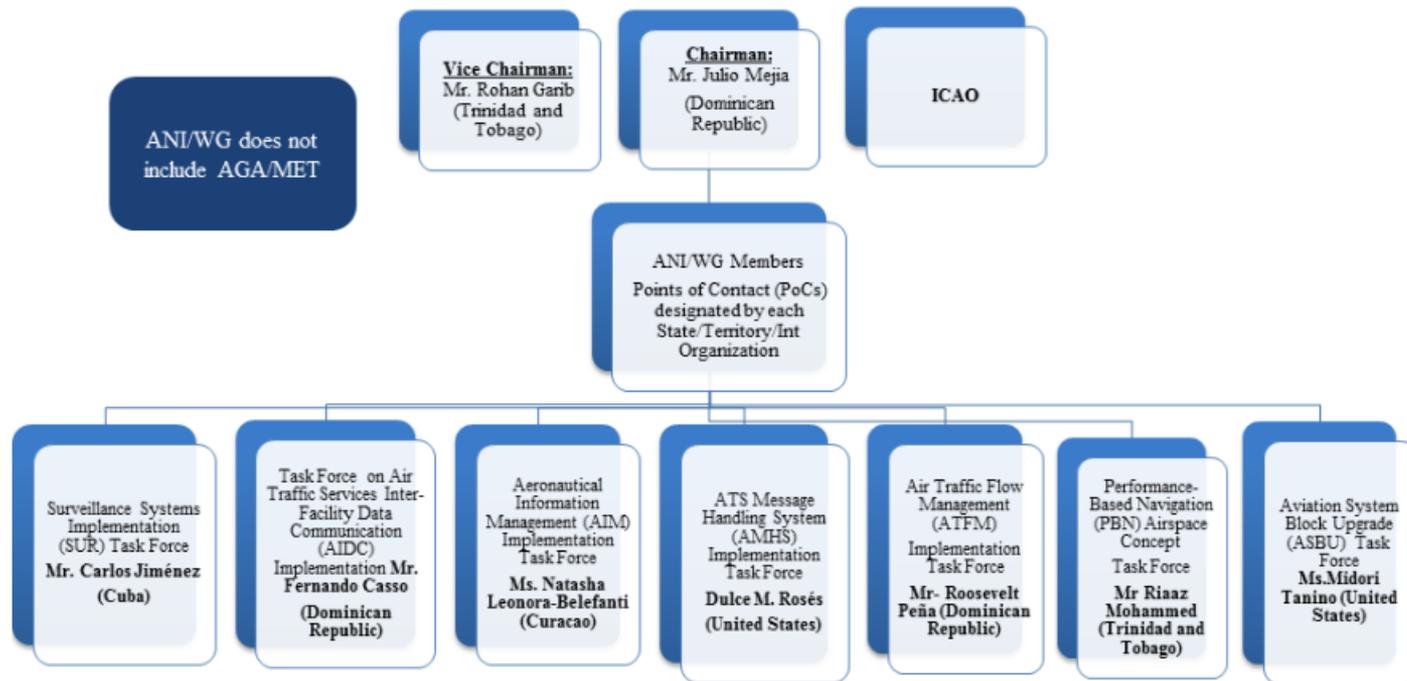
MEVA Contract

- ✈ The contract of the MEVA network ends in March of the 2020, for which it is requested to approve the extension of the same under the same terms for two more years.



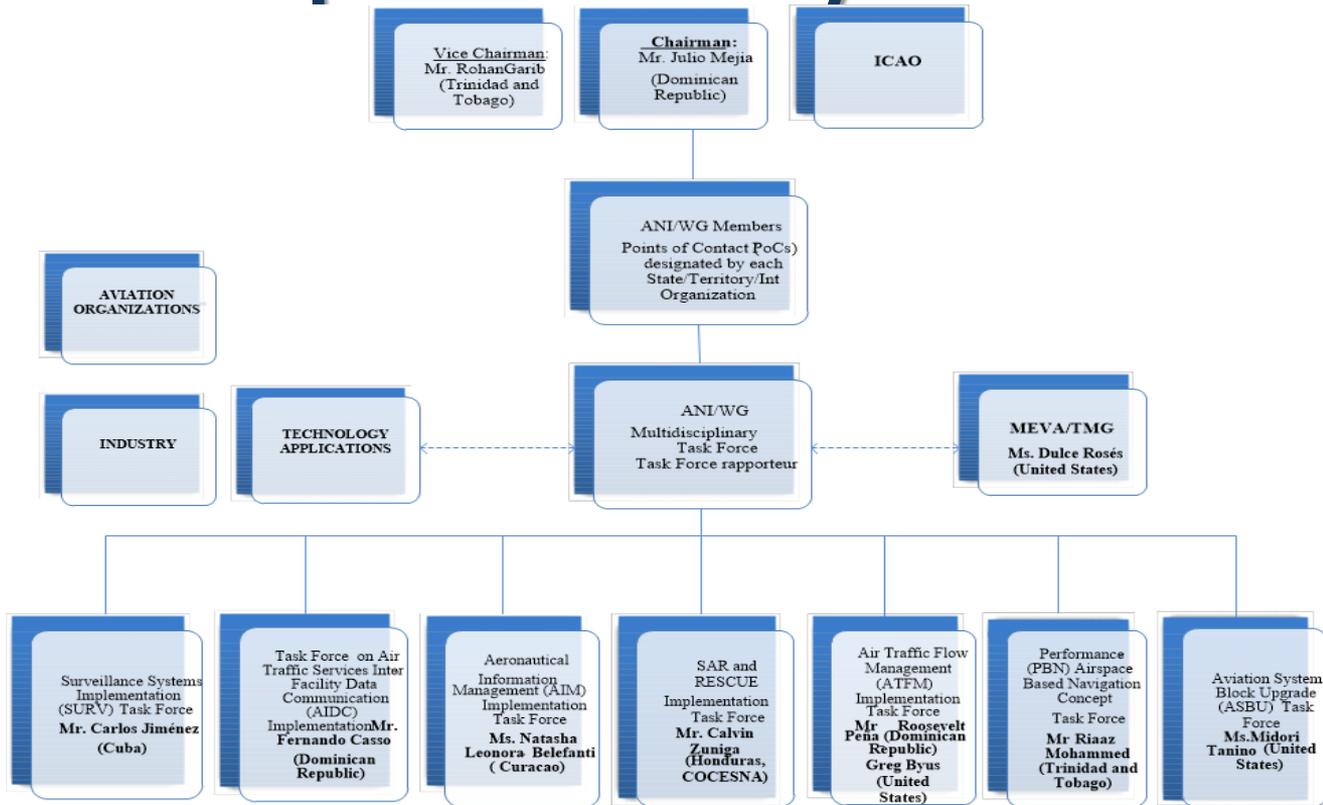


Current ANI/WG Structure





New Proposal for ANI/WG Structure





Results of Eastern Caribbean Meetings

Civil Aviation Technical Group (CATG), Caribbean Network Technical Group (CAR/NTG) and Radar Data Sharing Ad hoc Group (CAR/RD) Meetings

- ✈ Eastern Caribbean States require support for the development of aviation projects that support air traffic control activities.
- ✈ One of these project is the development of the second phase of the radar presentation project. This project is a real need, because it will promote the operational safety of the region and improve situational awareness.





Results of Eastern Caribbean Meetings

Civil Aviation Technical Group (CATG), Caribbean Network Technical Group (CAR/NTG) and Radar Data Sharing Ad hoc Group (CAR/RD) Meetings

- ✈ Eastern Caribbean States require to support PBN, AIDC, Surveillance coverage (100%) and data surveillance sharing, others.
- ✈ Be part of the NEW MEVA phase of communication network.
- ✈ Integrate in a better way their activities according with their local and regional air navigation needs.





ACTIONs For Directors

- ✈ Analysis about ADS-B implementation impact in their local and international operation according with the ADS-B implementation deadline.
- ✈ To support MEVA IV Phase Implementation.
- ✈ Approve new ANI/WG Structure and support Task Forces Activities.
- ✈ Improve E/CAR second phase of the radar presentation project.
- ✈ Support Easter Caribbean Task Force according with their implementation objectives.



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THANK YOU!