



# ICAO

International Civil Aviation Organization  
North American, Central American and Caribbean Office

**Second Meeting of the North American, Central American and Caribbean Working Group (NACC/WG) Airspace Optimization Task Force (AO/TF/2), Fourth Meeting of the NACC/WG Air Traffic Flow Management Implementation Task Force (ATFM/TF/4) and Sixth Meeting of the CANSO IATA ICAO Free Route Airspace (CIIFRA/6) Team (AO/TF/2/ATFM/TF/4/CIIFRA/6)**  
Miami, United States, 13 to 17 February 2023

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## SUMMARY OF DISCUSSIONS

### *List of Participants*

70 participants from the NAM/CAR Regions attended the event, representing 17 NAM/CAR/SAM States, and 12 International Organizations/industry (refer to **Attachment A**).

### *Agenda:*

Refer to **Attachment B**.

The Second Meeting of the Airspace Optimization Task Force of the North American, Central American and Caribbean Working Group (NACC/WG/AO/TF/2) was held in jointly with the Fourth Meeting of the NACC/WG Air Traffic Flow Management Implementation Task Force (ATFM/TF/4) and the Sixth Meeting of the CANSO IATA ICAO Free Route Airspace (CIIFRA/6) - its contributory body. The three meetings were conducted together in a single meeting.

### *Opening*

Mr. Ernest Snyder, Regional Officer, Air Traffic Management of the North American, Central American and Caribbean (NACC) Office of the International Civil Aviation Organization (ICAO) provided opening remarks and thanked the IATA for hosting the meeting. Mr. Javier Vanegas, Director Latin America and Caribbean Affairs of CANSO and Mr. Jaime Abigantus, Assistant Director Air Traffic Management of IATA, welcomed the participants to Miami and officially opened the meeting.

### *Documentation*

The Meeting related documentation was available at the following link:  
<https://www.icao.int/NACC/Pages/meetings-2023-aotfciifra.aspx>

### *Meeting organization*

The meeting was held with the participation of the Rapporteurs of the North America, Central America and Caribbean Working Group (NACC/WG), Airspace Optimization (AO) and the Air Traffic Flow Management (ATFM) Task Forces, Messrs. Riaaz Mohammed (Trinidad and Tobago) and Vernon Payne (United States) respectively. Messrs. Mohammed and Payne chaired the meeting plenary. Mr. Ernest Snyder, Regional Officer, Air Traffic Management served as Secretary of the Meeting, assisted by Mr.

Eddian Méndez, Regional Officer Air Traffic Management and Search and Rescue, both of the ICAO NACC Regional Office.

***Agenda Item 1: Adoption of the Provisional Agenda and Schedule***

1.1 Under this Agenda Item the Secretariat presented WP/01 and invited the Meeting to approve the Provisional Agenda and Schedule. The Meeting approved the Agenda as presented.

***Agenda Item 2: Follow-up on Valid Conclusions and Decisions from previous meetings***

2.1 Under this Agenda Item the Meeting reviewed the list of Conclusions and Decisions from previous ATFM and AO Task Force Meetings.

2.2 The Table below shows the status of the ATFM/TF Conclusions and Decisions:

Meeting	C/d	No.	Title	Comments
ATFM/TF/CADENA	D	01	NAM/CAR ATFM/CDM REGIONAL TRAINING PROGRAMME	1. Completed: a. The ANI/WG/ATFM Task Force develop an ATFM Training Programme, including training requirements for each ATFM position and every level of training and objectives in line with ICAO TRAINAIR Plus Methodology, to be included as an Appendix to the CAR/SAM ATFM Concept of Operations (CONOPS), by 31 December 2019.
ATFM/TF/CADENA	D	02	ATFM CONTINGENCY PLANS	1. Valid a. The ANI/WG/ATFM Task Force develop guidelines for ATFM Contingency Plans to be included in the CAR/SAM ATFM CONOPS; taking into consideration the need to establish a clear differentiation between the ATM Contingency Plans and the ATFM Contingency Plans, by 31 December 2024.
ATFM/TF/CADENA	D	03	ATFM REGIONAL KPIs	1. Completed: a. a) establish at a minimum KPIs for take-off time, off-block time, and, as able, filed versus flown; b. b) when developing these KPIs, take into consideration when and how they will be measured, and with whom the information will be shared; and c. c) include these KPIs along with associated guidelines are to be included in the CAR/SAM ATFM CONOPS, by 31 December 2019.
ATFM/TF/CADENA	C	04	ATFM TOOLS MINIMUM REQUIREMENTS	1. Completed: a. include AFTM tools minimum requirements of Section 4 in the CAR/SAM ATFM CONOPS; 2. Completed b. request States to consider implementing automated ATFM tools to predict demand and balance that demand with available capacity; and

Meeting	C/d	No.	Title	Comments
				c. request States to model ATFM solutions to ensure the use of the least restrictive Traffic Management Measures necessary to achieve desired result so as to minimize impact on stakeholders and to utilize all available capacity to maximize airspace and airport throughput by 31 December 2019.
ATFM/TF/CADENA	C	05	UPDATE RPBANIP ATFM RELATED RPOs	1. Completed: That, in order to promote the effective compliance of the NAM/CAR regional priorities, to maintain the validity, accuracy, and applicability of the RPBANIP, aligning the regional and national activities and strategies, ICAO take the appropriate steps to request the update of the RPBANIP ATFM related RPOs, with the inputs provided by the ATFM Task Force, before the ANI/WG/5 Meeting.
ATFM/TF/2/01	C	01	IMPLEMENTATION OF THE REGIONAL ATM PERFORMANCE FRAMEWORK	2. Completed: a. Civil Aviation Authorities (CAAs) and ANSPs upper management allocate adequate labour and financial resources to develop data collection capabilities, as a critical activity to move forward;  3. Valid b. at the regional level, the ICAO NACC Regional Office identify additional resources that could be made available to guide States/Territories in providing the required inputs to this process by 31 December 2024;  4. Completed c. States/Territories and ANSPs continue working to develop capabilities to perform ATFM functions according to the required levels of services;  5.Valid d. States/Territories and ANSPs continue working to implement the framework to measure ATFM performance using the agreed KPIs (included in the CAR/SAM ATFM CONOPS); and  6.Valid e. the ATFM/TF provide guidance to help identify key airports for each State/Territory of the CAR, by 31 December 2024
ATFM/TF/02/02	C	02	ATFM CONTINGENCY PROCEDURES	1. Completed a. States/Territories and ANSPs of the CAR Region develop and implement ATFM contingency arrangements, as required; and  2. Valid b. The ATFM Task Force develop a framework, as a general reference, for ATFM contingency procedures providing guidance on key elements to be included for ATFM contingency arrangements by 31 December 2024.

Meeting	C/d	No.	Title	Comments
ATFM/TF/03	C	01	ATFM MINIMUM REQUIREMENTS FOR THE CAR REGION	Valid <ol style="list-style-type: none"> <li>Presented to GREPECAS, pending final report to go ahead with the PFA to the CAR/SAM eANP</li> <li>CADENA approved as a mechanism to facilitate data sharing and promote a common situational awareness that is vital to the safe, efficient, and harmonized flow of air traffic.</li> <li>Pending actions:               <ol style="list-style-type: none"> <li>the Secretariat take the necessary measures to make available to the States, Territories and ANSPs of the CAR Region guidance material on the process for determining the capacity of the ATC sectors, as well as organize training activities taking into consideration the different methodologies available and used in the region in 2023;</li> </ol> </li> </ol>
ATFM/TF/03	D	02	INCREASED SUPPORT FOR ATFM PERFORMANCE MEASUREMENT	Valid <ol style="list-style-type: none"> <li>Reported to the NACC/WG and to the GREPECAS considerations regarding the challenges for ATFM Performance measurement in the CAR/SAM Regions;</li> <li>Pending actions:               <ol style="list-style-type: none"> <li>share with the GREPECAS Data Analysis Working Group (DAWG) the importance of working together to evaluate the use of automated tools for data collection and analysis; and</li> <li>ICAO to provide more direct support and practical guidance on data collection and analysis mechanisms, recognizing the different capacities among service providers during 2023.</li> </ol> </li> </ol>

2.3 The ATFM and AO Task Forces focused heavily on the optimization of the region's airspace and will carry forward the pending items to the next meeting.

***Agenda Item 3: CANSO Air Traffic Flow Management Data Exchange Network for the Americas (CADENA) Regional Implementation Group (RIG) updates***

3.1 Under this Agenda Item CGH (on behalf of CADENA), presented P/04 with the CADENA accomplishments since August 2022 to present., the Meeting was informed that Mr. Al Castillo facilitated the Fourteenth CADENA Regional Implementation Group (RIG) meeting discussion. In this meeting, CADENA accomplishments were discussed, including increasing the weekly planning web conference to twice weekly. Also highlighted were the Virtual Support Team, CADENA trial benefits and the CADENA Collaborative Decision Making (CDM) meeting in Merida. Mr. George Matthew, (Dominican Republic) gave an update on IDAC activities and Mr. Jacques Lasten (Curaçao) gave an update for the Curaçao Air Navigation Service Provider (ANSP). There was an update on the JCAA MIA-BOG offload trial as well as the

MMUN departure UM219 offload trial and a SENEAM Strategic Direct Routing (SDR) trial overview. A “brainstorming” session was held looking for the next steps for CADENA to pursue in the region.

3.2 Dominican Republic presented P/05 with a briefing of the positive recovery of air traffic of 15% expected growth and plans for new airport construction in that State. The presentation included information regarding some challenges in handling the increased volume. Concluded by offering recommendations of a possible airspace redesign project including the possible vertical split of sectors.

#### *Agenda Item 4: ATFM/TF Updates*

4.1 The Meeting was updated on the progress and events that have taken place since the last meeting of the ATFM/TF. Information was provided on the virtual training session offered in January 2023 by United States Federal Aviation Administration (FAA), an introduction to collaboration and ATFM training was provided. This was attended by Cuba, Jamaica and Mexico. Moreover, the FAA opened up its virtual ATFM workshop to the region. There is a continued effort to provide a platform of an ATFM tool through Web TSD (Traffic Situation Display) for the region to utilize.

#### *Agenda Item 5: AO/TF Updates*

5.1 The AO/TF was updated of the progress of optimization in the region. The introduction of SDR was discussed, and metrics were updated showing the benefits seen in optimization.

	All phases included
<b>Savings:</b>	
Flight min	26,374 min=33 round trips KATL-SPJC
Fuel (lb)	4,808,578 lb
CO2 (kg)	8,369,443 kg= 20,774,678 miles driven by average car*
Cost (\$ USD)	\$ 4,257,434

5.2 The next phase of optimization was introduced bringing in other Air Navigation Services (ANS) Task Forces to provide support to optimization.

#### *Agenda Item 6: Ad hoc Groups Reports*

6.1 Under this Agenda Item the Secretariat presented P/01 with information regarding the Ad hoc Groups created to address specific airspace optimization tasks.

6.2 Ad Hoc Group 4 was created as a result of a request by the AO/TF to follow up on IATA’s recommendation to add the Airport Efficiency Programme to the AO/TF work programme to continue the

optimization efforts of the upper airspace and terminal area to the airport level as airport constraints affect terminal airspace optimization by November 2022.

6.3 Ad Hoc Group 6 was created to work on “Terminal Airspace Concepts” to consolidate different concepts for arrivals/departures so that States may have ideas on which concept may benefit that state better by November 2022.

6.4 The discussions for the Ad hoc Groups were addressed during the Meeting Plenary.

#### ***Agenda Item 7: International Air Transport Association (IATA)***

7.1 IATA provided a presentation highlighting the need to continue the momentum of the airspace project. IATA also discussed the need to Predict demand and complexity of the DCT/FRA routes.

7.2 IATA would like to look at the possibility of reframing the strategy of utilizing point to point vs operator specific city pairs. This would provide a larger sample size and allow conclusions to be reached sooner. IATA is excited about the progress and would like to increase participation. Direct Routing (DCT) in Brazil was shared as well as a brief discussion of its utilization in Europe.

#### ***Agenda Item 8: Other Business***

8.1 No items were discussed under this Agenda item.

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North American, Central American and Caribbean Office (NACC)  
Oficina para Norteamérica, Centroamérica y Caribe (NACC)

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Segunda Reunión del Grupo de Tarea Optimización del Espacio Aéreo (AO/TF/2) del Grupo de Trabajo de Norteamérica, Centroamérica y Caribe (NACC/WG), Cuarta Reunión del Grupo de Tarea de Implementación de Gestión de la Afluencia del Tránsito Aéreo (ATFM/TF/4) del Grupo de Trabajo de Norteamérica, Centroamérica y Caribe (NACC/WG) y Sexta Reunión del Equipo de Espacio Aéreo de Rutas Libres CANSO OACI IATA (CIIFRA/6)  
(AOTF2/ATFMTF4/CIIFRA/6)**

Miami, United States and on-line, from 13 to 17 February 2023/  
Miami, Estados Unidos y en-línea, 13 al 17 de febrero de 2023

**ATTACHMENT/ADJUNTO A**  
**LIST OF PARTICIPANTS / LISTA DE PARTICIPANTES**

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1. Julián Ahumada
2. Flavia Moreno

**ARUBA**

3. Anthony Kirchner

**BAHAMAS**

4. Bryan Wilson

**CANADA/CANADÁ**

5. Esther Eivinsen

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6. Anthony Salas Solano
7. Fernando Villegas Porras
8. Kira Gerken

**CUBA**

9. Jorge Centella
10. José Castellanos

11. Ricardo Martínez
12. Ricardo Vidal La O
13. Adriana Tenorio
14. Ramón Rodríguez
15. Jorge Martínez Rizo

**CURAÇAO/CURAZAO**

16. Michael Celestijn
17. Jacques Lasten

**DOMINICA**

18. Benoit Bardouille

**DOMINICAN REPUBLIC/REPÚBLICA DOMINICANA**

19. William Alsina
20. George Alfredo Matthew B
21. Roosevelt Antonio Pena Mendez

**GUATEMALA**

22. Juan Carlos Alvarado

**HAITI/HAITÍ**

23. Philippe Riche

**JAMAICA**

- 24. Yannick Francis
- 25. Troy Blackwood

**MEXICO/MÉXICO**

- 26. Patricia Manzo
- 27. Zeldy Elizabeth Flores Rivera
- 28. José Guillermo Manzo Espadas
- 29. Daniel Díaz
- 30. Horacio Castañeda
- 31. Manuel Gonzalez
- 32. Jorge Caballero
- 33. Mario Hernandez
- 34. Arturo Villela
- 35. Hugo César Aguirre Morales
- 36. Ileana Villena Romero

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- 37. Kenrick Duncan

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- 38. Riaaz Mohammed
- 39. Curtis Fraser
- 40. Ashley Lalman
- 41. Ian Gomez

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- 42. Rico Smith
- 43. Jennifer James

**UNITED STATES/ESTADOS UNIDOS**

- 44. Scott Farrow
- 45. David Zander
- 46. Vincent McMenamy
- 47. Vernon Payne
- 48. Richard William Ditto
- 49. Chris Tomlin
- 50. Midori Tanino
- 51. Jorge Chades

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- 53. Eduardo Ravera

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- 54. Fernando Borja

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**COCESNA**

- 56. Luis Rosales
- 57. Henry Reyes

**CGH TECHNOLOGIES, INC**

- 58. Albert Castillo
- 59. Joe Hof

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- 61. William Rubiano
- 62. Brian M. Swain

**FEDEX**

- 63. Justin Lonie

**IATA**

- 64. Jaime Abigantus

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- 65. Tania Helena
- 66. Alberto Ortega

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- 67. Rocco Heesters



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71. Eddian Méndez  
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ICAO

International Civil Aviation Organization  
North American, Central American and Caribbean Office

**Second Meeting of the North American, Central American and Caribbean Working Group  
(NACC/WG) Airspace Optimization Task Force (AO/TF/2), Fourth Meeting of the NACC/WG Air  
Traffic Flow Management Implementation Task Force (ATFM/TF/4) and Sixth Meeting of the CANSO  
IATA ICAO Free Route Airspace (CIIFRA/6) Team (AO/TF/2/ATFM/TF/4/CIIFRA/6)  
Miami, United States from 13 to 17 February 2023**

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**ATTACHMENT B  
PROVISIONAL AGENDA**

- Agenda Item 1: Adoption of the Provisional Agenda and Schedule**
- Agenda Item 2: Follow-up on Valid Conclusions and Decisions from previous meetings**
- Agenda Item 3: CANSO Air Traffic Flow Management Data Exchange Network for the Americas  
(CADENA) Regional Implementation Group (RIG) updates**
- Agenda Item 4: ATFM/TF Updates**
- Agenda Item 5: AO/TF Updates**
- Agenda Item 6: Ad hoc Groups Reports**
- Agenda Item 7: International Air Transport Association (IATA)**
- Agenda Item 8: Other Business**
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**PROVISIONAL AGENDA  
EXPLANATORY NOTES**

**Agenda Item 1: Adoption of Provisional Agenda and Schedule**

Under this agenda item, the meeting shall review the agenda and schedule, and adopt them. The objectives and overall expectations of the meeting will be presented.

**Agenda Item 2: Follow-up on Valid Conclusions and Decisions from previous meetings**

Under this agenda item, the Meeting shall review any pending business, decisions and conclusions, to determine what work remains to be done.

**Agenda Item 3: CANSO Air Traffic Flow Management Data Exchange Network for the Americas (CADENA) Regional Implementation Group (RIG) updates**

Under this agenda item, CADENA will provide an update on work and projects being managed since the last meeting.

**Agenda Item 4: ATFM/TF Updates**

Under this agenda item, the Meeting will be updated on the status of Thin Client/Web TSD availability and means/requirements to procure the product. The meeting will also be provided guidance on the use of the tool and see a mock scenario of how it may be used.

**Agenda Item 5: AO/TF Updates**

Under this agenda item, the Meeting will receive an update on the optimization project as well as a briefing from SENEAM on the Strategic Direct Routing happening there.

**Agenda Item 6: Ad Hoc Groups Reports**

Under this agenda item, the AO/TF Ad hoc groups will present reports to the Meeting.

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**Agenda Item 7: International Air Transport Association (IATA)**

Under this agenda item, the meeting will receive an update from the IATA and member airlines.

**Agenda Item 8: Other Business**

Under this agenda item, the meeting will consider items not addressed in previous agenda items.

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