



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

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**.

This was the Second Meeting of the Airspace Optimization Task Force of the North American, Central American and Caribbean Working Group (NACC/WG/AO/TF/2) in conjunction 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.

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 (IP/01) was available at the following link: <https://www.icao.int/NACC/Pages/meetings-2023-aotfciifra.aspx>

Meeting organization

The AO/TF/2/ATFM/TF/4/CIIFRA/6 Meeting was held with the participation of the Rapporteurs of the Airspace Optimization (AO) and the Air Traffic Flow Management (ATFM) Task Forces, Messrs. Riaaz Mohammed (TTO) and Vernon Payne (USA) 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 and adjusted the Schedule as necessary.

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/C ADENA	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/C ADENA	D	02	ATFM CONTINGENCY PLANS	1. Pending: 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 2019.
ATFM/TF/C ADENA	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/C ADENA	C	04	ATFM TOOLS MINIMUM REQUIREMENTS	1. Completed: a. a) include AFTM tools minimum requirements of Section 4 in the CAR/SAM ATFM CONOPS; 2. Recurrent a. b) request States to consider implementing automated ATFM tools to predict demand and balance that demand with available capacity; and b. 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/C ADENA	C	05	UPDATE RPBANIP ATFM RELATED RPOS	1. Completed: 2. 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	3. Recurrent: 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; 4. Pending: a. 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 2022; 5. Recurrent: a. States/Territories and ANSPs continue working to develop capabilities to perform ATFM functions according to the required levels of services;

				<p>6. Pending:</p> <p>a. 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</p> <p>7. Partially completed</p> <p>a. e) the ATFM/TF provide guidance to help identify key airports for each State/Territory of the CAR</p>
ATFM/TF/02/02	C	02	ATFM CONTINGENCY PROCEDURES	<p>1. Recurrent</p> <p>a. a) States/Territories and ANSPs of the CAR Region develop and implement ATFM contingency arrangements, as required; and</p> <p>2. Pending</p> <p>a. 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 2022.</p>
ATFM/TF/03	C	01	ATFM MINIMUM REQUIREMENTS FOR THE CAR REGION	<p>1. Presented to GREPECAS, pending final report to go ahead with the PFA to the CAR/SAM eANP</p> <p>2. 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.</p> <p>3. Pending actions:</p> <p>a. 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;</p>
ATFM/TF/03	D	02	INCREASED SUPPORT FOR ATFM PERFORMANCE MEASUREMENT	<p>1. Reported to the NACC/WG and to the GREPECAS considerations regarding the challenges for ATFM Performance measurement in the CAR/SAM Regions;</p> <p>2. Pending actions:</p> <p>b) 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</p> <p>c) ICAO to provide more direct support and practical guidance on data collection and analysis mechanisms, recognizing the different capacities among service providers during 2023.</p>

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.

3.2 Mr. Al Castillo facilitated the 14th CADENA Regional Implementation Group (RIG) meeting. 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 that ANSP. There was an update on the JCAA MIA-BOG offload trial as well as the MMUN departure UM219 offload trial and a SENEAM SDR trial overview. A “brainstorming” session was held looking for the next steps for CADENA to pursue in the region.

3.3 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 the Dominican Republic. 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 ATFM Taskforce was updated on the progress and events that have taken place since the last meeting. The United States FAA offered a virtual training session in January of their introduction to collaboration and ATFM training. This was attended by Cuba, Jamaica and Mexico, also, the FAA opened up their 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 we have seen in optimization.

	All phases included
Savings:	
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

The next phase of optimization was introduced bringing in other ANS taskforces 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 gave a presentation highlighting the need to continue the momentum of the airspace project. They 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. DCT routing 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

LIST OF PARTICIPANTS / LISTA DE PARTICIPANTES

ARGENTINA

1. Julián Ahumada
2. Flavia Moreno

ARUBA

3. Anthony Kirchner

BAHAMAS

4. Bryan Wilson

CANADA/CANADÁ

5. Esther Eivinsen

COSTA RICA

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/HAÏTÍ

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

SAINT KITTS AND NEVIS/SAN KITTS Y NEVIS

- 37. Kenrick Duncan

TRINIDAD AND TOBAGO/TRINIDAD Y TABAGO

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

TURKS AND CAICOS ISLANDS/ISLAS TURCAS Y CAICOS

- 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

AEROLÍNEAS ARGENTINAS

- 52. Andrés Javier Guilhem
- 53. Eduardo Ravera

AEROMEXICO

- 54. Fernando Borja

AMERICAN AIRLINES

- 55. Scott Pressley

COCESNA

- 56. Luis Rosales
- 57. Henry Reyes

CGH TECHNOLOGIES, INC

- 58. Albert Castillo
- 59. Joe Hof

DELTA AIRLINES

- 60. Robert (Bob) Oberstar
- 61. William Rubiano
- 62. Brian M. Swain

FEDEX

- 63. Justin Lonie

IATA

- 64. Jaime Abigantus

JETBLUE

- 65. Tania Helena
- 66. Alberto Ortega

KLM

- 67. Rocco Heesters

SOUTHWEST AIRLINES

- 68. Edwin Solley
- 69. Mark Rios

UNITED AIRLINES

- 70. Gen Schnee

ICAO/OACI

- 71. Eddian Méndez
- 72. Ernie Snyder

LIST OF PARTICIPANTS / LISTA DE PARTICIPANTES

Name / Position Nombre / Puesto	Administration / Organization Administración / Organización	E-mail / Correo-e
Argentina		
Julián Ahumada ATFM	EANA	E-mail ahumadajulian@gmail.com
Flavia Moreno ATFM	EANA S.E.	E-mail flavia.e.moreno@gmail.com
Aruba		
Anthony Kirchner Manager Strategy and Policy Unit	Aruba Department of Civil Aviation	E-mail anthony.kirchner@dca.gov.aw
Bahamas		
Bryan Wilson Deputy Director, ATS Operations	BAHAMAS AIR NAVIGATION SERVICES AUTHORITY	E-mail bryan.wilson@bansdbahamas.com
Canada/Canadá		
Esther Eivinsen Manager, Flight Dispatch Operations	Air Canada	E-mail esther.eivinsen@aircanada.ca
Costa Rica		
Anthony Salas Solano Gestor Diseño de Procedimientos de Vuelo	Dirección General de Aeronáutica Civil (DGAC)	E-mail asalass@dgac.go.cr
Fernando Villegas Porras ATFM	DGAC	E-mail fvillegas@dgac.go.cr
Kira Gerken Jefe de Navegación Aérea	DGAC	E-mail kgerken@dgac.go.cr
Cuba		
Jorge Centella Director de aeronavegación	IACC	E-mail jorge.centella@iacc.avianet.cu
José Castellanos Especialista ATM	IACC	E-mail jose.castellanos@iacc.avianet.cu
Ricardo Martínez Director de Operaciones	ECNA	E-mail Ricardo.martinez@aeronav.avianet.cu
Ricardo Vidal La O Especialista ATM	ECNA	E-mail ricardo.vidal@aeronav.avianet.cu

Name / Position Nombre / Puesto	Administration / Organization Administración / Organización	E-mail / Correo-e
Cuba		
Adriana Tenorio Especialista ATM	ECNA	E-mail adriana.tenorio@aeronav.avianet.cu
Ramón Rodríguez Principal de operaciones	ACC Habana	E-mail ramon.rodriguez@aeronav.avianet.cu
Jorge Martínez Rizo Jefe de sala de control	ACC Habana	E-mail jorge.martinez@aeronav.avianet.cu
Curaçao/Curazao		
Michael Celestijn Aviation Safety Inspector Air Navigation Service.	DC-ANSP	E-mail michael.celestijn@gobiernu.cw
Jacques Lasten Deputy Director	Dutch Caribbean Air Navigation Service Provider (DC-ANSP)	E-mail J.Lasten@dc-ansp.org
Dominica		
Benoit Bardouille Chief Executive Officer	Dominica Air and Sea Ports Authority	E-mail ceo@daspa.dm
Dominican Republic/República Dominicana		
William Alsina Airspace Manager	Instituto Dominicano de Aviación Civil (IDAC)	E-mail william.alsina@idac.gov.do
George Alfredo Matthew B Air traffic Flow Control mgr ATFM	IDAC	E-mail george.Matthew@idac.gov.do
Roosevelt Antonio Pena Mendez ANSP Risk Management Divison Mngr.	IDAC	E-mail roosevelt.pena@idac.gov.do
Guatemala		
Juan Carlos Alvarado Gerencia de Navegación Aérea	Dirección General de Aeronáutica Civil (DGAC)	E-mail juanalvarado.dgac@gmail.com
Haiti/Haití		
Philippe Riche	OFNAC	E-mail riche.philippe@ofnac.gouv.ht
Jamaica		
Yannick Francis Unit Manager, Kingston Air Traffic Control Center	Jamaica Civil Aviation Authority (JCAA)	E-mail yannick.francis@jcaa.gov.jm

Name / Position Nombre / Puesto	Administration / Organization Administración / Organización	E-mail / Correo-e
Jamaica		
Troy Blackwood Radar Specialist	JCAA	E-mail troy.blackwood@jcaa.gov.jm
Mexico/México		
Patricia Manzo Regional Coordinator Southeast	SENEAM	E-mail SPTISHA@HOTMAIL.COM
Zeldy Elizabeth Flores Rivera Coordinadora Regional Noreste	SENEAM	E-mail zeldyflores@hotmail.com
José Guillermo Manzo Espadas ATC Supervisor at MMID ACC	SENEAM	E-mail manzowaze@gmail.com
Daniel Díaz Cancun ATS Chief	Seneam	E-mail jdiaz001v@gmail.com
Horacio Castañeda Cancun Tower Chief	SENEAM	E-mail horacas2@hotmail.com
Manuel Gonzalez Encargado de la Jefatura de MMUN APP	SENEAM	E-mail mjgs44@gmail.com
Jorge Caballero Jefe ATS	SENEAM	E-mail jecfebles@hotmail.com
Mario Hernandez Encargado del Proyecto ATFM Mexico	SENEAM MEXICO	E-mail malex.hernandez.ramos@gmail.com
Arturo Villela Jefe de los Servicios de Tránsito Aéreo Noreste	SENEAM	E-mail arvivi@gmail.com
Hugo César Aguirre Morales Supervisor	SENEAM	E-mail hcaguirreuno@gmail.com
Ileana Villena Romero Mexico Area Control Center manager	SENEAM	E-mail ileanavr72@gmail.com
Saint Kitts and Nevis/San Kitts y Nevis		
Kenrick Duncan Civil Aviation Safety Officer	Government of st. Kitts and Nevis	E-mail Kenrick.duncan@gov.kn
Trinidad and Tobago/Trinidad y Tabago		
Riaaz Mohammed Manager ANS Planning	Trinidad and Tobago Civil Aviation Authority (TTCAA)	E-mail rmohammed@caa.gov.tt

Name / Position Nombre / Puesto	Administration / Organization Administración / Organización	E-mail / Correo-e
Trinidad and Tobago/Trinidad y Tabago		
Curtis Fraser Air Traffic Management Officer	Trinidad and Tobago Civil Aviation Authority (TTCAA)	E-mail cfraser@caa.gov.tt
Ashley Lalman Unit Chief ACC and APP	TTCAA	E-mail alalman@caa.gov.tt
Ian Gomez Unit Chief ANS Safety	TTCAA	E-mail igomez@caa.gov.tt
Rico Smith Air Traffic Controller	Turks and Caicos Islands Airports Authority	E-mail Ricosmith1980@gmail.com
Jennifer James ATC Supervisor	Turks and Caicos Islands Airports Authority	E-mail jenniferjames@tciairports.tc
United States/Estados Unidos		
Scott Farrow Staff Support Specialist CDM and International Operations	Federal Aviation Administration (FAA)	E-mail scott.farrow@faa.gov
David Zander Traffic Management Officer Miami District	FAA	E-mail david.r.zander@faa.gov
Vincent McMenamy Air Traffic Control Specialist	FAA	E-mail vincent.mcmenamy@faa.gov
Vernon Payne ATSCC Manager CDM/International	FAA	E-mail vern.payne@faa.gov
Richard William Ditto Deputy Director System Operations	FAA	E-mail richard.ditto@faa.gov
Chris Tomlin Deputy Director System Operations East-South	FAA	E-mail Christopher.k.tomlin@faa.gov
Midori Tanino ATO International, CADENA Program Manager	FAA	E-mail Midori.Tanino@faa.gov
Jorge Chades Oceanic & Offshore International ATS Procedures Specialist	FAA	E-mail jorge.a-ctr.chades@faa.gov
Aerolíneas Argentinas		
Andrés Javier Guilhem Route analyst	Aerolíneas Argentinas	E-mail andres.guilhem@aerolineas.com.ar
Eduardo Ravera Gerente Documentación y Normas operativas / Comandante A330	Aerolíneas Argentinas	E-mail eduardo.ravera@aerolineas.com.ar

Name / Position Nombre / Puesto	Administration / Organization Administración / Organización	E-mail / Correo-e
AEROMEXICO		
Fernando Borja Capitan	Aeromexico	E-mail borjamier@gmail.com
American Airlines		
Scott Pressley Air Traffic MGMT/ Operations Manager SE US/LATAM	American Airlines	E-mail Scott.pressley@aa.com
COCESNA		
Luis Rosales Coordinador de Planificación del Espacio Aéreo	Corporación Centroamericana de Servicios de Navegación Aérea (COCESNA)	E-mail luis.rosales@cocesna.org
Henry Reyes Coordinador ATFM	COCESNA	E-mail henry.reyes@cocesna.org
CGH Technologies, Inc		
Albert Castillo FAA ATO CADENA Project Lead	CGH Technologies, Inc	E-mail acastillo@cghtech.com
Joe Hof Director, Global ATM Operations	CGH Technologies, Inc	E-mail jhof@cghtech.com
Delta Airlines		
Robert (Bob) Oberstar Supervisor - International Flight Control	Delta Airlines	E-mail robert.oberstar@delta.com
William Rubiano Delta Air Lines OCC / Overflight Permits and International Routes	Delta Airlines	E-mail william.rubiano@delta.com
Delta Airlines		
Brian M. Swain Senior Manager-Delta Air Lines OCC Air Traffic Management Delta Air Lines	Delta Airlines	E-mail brian.m.swain@delta.com
Fedex		
Justin Lonie ATC Liaison/Intl Flight Dispatch	Federal Express	E-mail justin.lonie@fedex.com
IATA		
Jaime Abigantus Assistant Director Air Traffic Management	IATA	E-mail abigantusj@iata.org

Name / Position Nombre / Puesto	Administration / Organization Administración / Organización	E-mail / Correo-e
Jetblue		
Tania Helena Analyst international programs	Jetblue	E-mail tania.helena@jetblue.com
Alberto Ortega Manager navigation and international programs	Jetblue	E-mail reynaldo.ortega@jetblue.com
KLM		
Rocco Heesters ATM Regional Manager Americas	KLM - Royal Dutch Airlines	E-mail Rocco.Heesters@klm.com
Southwest Airlines		
Edwin Solley Senior Manager Air Traffic Systems	Southwest Airlines	E-mail edwin.solley@wnco.com
Mark Rios ATC Senior Systems Program Manager	Southwest Airlines	E-mail Markrios.atm@gmail.com
United Airlines		
Gen Schnee Chief Dispatcher	United Airlines	E-mail gen.schnee@united.com
ICAO/OACI		
Eddian Méndez Regional Officer, Air Traffic Management, and Search and Rescue	ICAO NACC	E-mail emendez@icao.int
Ernie Snyder Regional Officer, Air Traffic Management	ICAO NACC	E-mail esnyder@icao.int



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Miami, United States from 13 to 17 February 2023**

**APPENDIX 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.

Agenda Item 7: International Air Transport Association (IATA)

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

— A3 —

Agenda Item 8: Other Business

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

— END —