FINAL SUMMARY OF DISCUSSIONS 3rd Meeting of the NAM CAR Regional Airspace Optimization Team Online, 27 January 2022

List of Participants

38 participants from the NAM/CAR/SAM Regions attended the event, representing 10 NAM/CAR States, 1 SAM State and 5 International Organizations/industry (refer to **Attachment A**).

Agenda:

Refer to Attachment B.

Opening

Mr Julio Siu, Deputy Regional Director provided remarks on the importance of this project and expectations for participation in the meeting. Mr. Javier Vanegas, Regional Director, Latin America and Caribbean Affairs, CANSO officially opened the event.

Documentation

The Meeting related documentation is available at the following link:

https://www.icao.int/NACC/Pages/meetings.aspx?year=2021&cM=12&cY=2021

Agenda Item 1: Belize M208 Plan

1.1 Did not occur as presenter retired. It was explained that the briefing would take place at the next meeting.

Agenda Item 2: Route Proposals

2.1 United States and CADENA presented on the history of the Planned Airway System Alternative (PASA) routes structure and evaluation to date including four completed route optimization trials. CADENA also briefed on two ongoing End-to-End (E2E) optimization routes that are in trial. The following routes have been proposed and are in the process for approval or consideration.

TTPP..KJFK..TTPP by Caribbean Airlines (in progress)
KIAH..MMSD..KIAH by United Airlines (in progress)
KATL..SCEL..KATL by Delta Airlines (in progress)
Selected city-pairs by Federal Express (in 2022)

American Airlines is evaluating flights that could be added to the existing trials

2.2 Thus far, Aerolinas Argentinas, United Airlines, Caribbean Airlines and Delta Airlines participated the PASA E2E route optimization trials. All airlines are welcome to participate. The routes are in the approval request status from the States/Flight Information Regions (FIRs). The plan is that after approval by the affected FIR's, there will be a 90-day trial followed by analysis to determine the impact of the revised route. If the route is successful, it will be published. Refer to P/02.

Agenda Item 3: WALKY Request Status

3.1 The WALKY proposal is in the initial process of Proposal for Amendment.

Agenda Item 4: Introduction of Horizontal Free Route Airspace (FRA) Concept

Agenda Item 5: Introduction of Vertical FRA Concept

Agenda Item 6: Introduction of Ultra High FRA Proposal (Midnight operations)

- 4.1 The Secretariat presented the transition to Free Route Airspace (FRA). The concept of FRA was discussed as well as its inclusion in the Aviation System Block Upgrades (ASBU) of the Global Air Navigation Plan (GANP). The definition of Direct Routing (DCT) as a precursor to FRA was given, along with the enablers of DCT. Then the definition of FRA was given followed by its enablers. The different aspects of customizing FRA use were explained including Lateral, horizontal and temporal. Also explained were conditions to be considered in the implantation of FRA including who/where, what/which, when and how, with a brief summary of the two paths the NAM CAR Regional Airspace Optimization Team was using to implement the regional airspace optimization, first the path looking for quick results or "low hanging fruit". The second, longer term path, towards the larger transformational goal of implanting FRA into the region's airspace. Metrics were presented showing the success of the six routes currently in trial status.
- 4.2 On the 6 routes that are being utilized, the following data is available:

9,659 minutes flying time saved/year 1,820,041 lbs of fuel saved/year 2,826,330 Kg Co2 saved/year 1,579,325 USD saved/year 4,398 flights impacted/year

- 4.3 Horizontal, vertical and temporal uses of FRA were discussed with a combination of the three being explained as the most likely outcome of a test for FRA in the region's airspace. The call for a focus group including the high altitude FIRs as well as some volunteers from low altitude FIR's was given, with a goal of selecting the trial criteria and determining the details of the trial. Refer to P/03, P/04 and P/05
- Cuba expressed concern about the implementation of FRA in the region, as there are States that may currently lack the technical and operational capacities, as well as may have airspace limitations and that implementation of FRA may be a long-term goal. It also mentioned that there are FIRs that may need technical assistance prior to said implementation, and that airports with higher volumes would also have issues with sequencing in an FRA environment. The Secretariat acknowledged these concerns and clarified that FRA would be implanted in those areas that are currently capable with a goal of working with the other areas and assist as needed. IATA commented that we must start the FRA process sometime, and begin slowly and build.

Agenda Item 7: Other Business

Update on PIARCO FIR

7.1 Trinidad and Tobago provided P/06 with an update of the PIARCO FIR. He provided a breakdown of the PIARCO FIR, including location and structure followed by updates on Area Navigation (RNAV implementations in the upper airspace and plans for 2022. Trinidad and Tobago concluded by informing the Meeting on the current project to connect the upper airspace with the lower airspace in the continental sector.

Next Actions

Form focus group including the high altitude FIR's as well as some volunteers from low altitude FIR's was given, with a goal of selecting the trial criteria and determining the details of the trial. Letters will be sent out to all members requiring participation from high altitude FIR's and asking for volunteers from low altitude FIRs. The letters are to be sent out by mid-February with a response by the end of February. The objective is to have the focus group begin meeting in March prior to the next team meeting.

This Meeting was successful in many areas:

- The team was introduced to the Free Route Airspace concept and how implementation will begin
- The team was briefed on the creation of a focus group which will work on the implementation of FRA
- The team saw a presentation from PIARCO describing the airspace work being done there
- The team was briefed on the metrics surrounding the current 6 routes that are in trial status
- The team was briefed on the new trials including Fed Ex and American Airlines request for inclusion

The team is now going to begin the process of integrating with the Airspace Optimization Taskforce. The combing of these two groups will eliminate any confusion regarding the similarities in their names and utilize the experience of both teams to ensure the transformation of the regions' airspace.

The facilitator (ICAO/IATA/CADENA) team is planning the next meeting to take place the week of March 21st to include meeting with the taskforce.



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

ATTACHMENT/ADJUNTO A

3rd Meeting of the NAM CAR Regional Airspace Optimization Team 3ª Reunión del Equipo Regional NAM/CAR de Optimización del Espacio Aéreo

Online, 27 January 2022 / En línea, 27 de enero de 2022

LIST OF PARTICIPANTS/ LISTA DE PARTICIPANTES

LIST OF PARTICIPANTS/ LISTA DE PARTICIPANTES					
BARBADOS		17. Marcos Muñoz			
	Gail Clarke	Panama/Panamá			
2.	Roderick A. Oliver	18. Gary Acosta			
C UB	A				
		SAINT VINCENT AND THE GRENADINES/SAN VICENTE Y			
3.	Jorge Centella	LAS GRANADINAS			
4.	Jorge Martínez				
	Ricardo Martínez	19. Dillett Davis			
6.	Silvio Michelena				
	Ramón Rodríguez	TRINIDAD AND TOBAGO/TRINIDAD Y TABAGO			
	Adriana Tenorio	Timilaria rita Tabrica, Timilaria Tiribrica			
	Ricardo Vidal	20. Riaaz Mohammed			
CURACAO		United States/Estados Unidos			
10.	Jacques Lasten	21. Midori Tanino			
GUATEMALA		CADENA			
11. Enio Hernandez		22. Joe Hof			
Наіті		CANSO			
12.	Philippe Riche	23. Javier Vanegas			
JAMAICA		COCESNA			
13	Yannick Francis	24. Luis Rosales			
_	Tameka Williams	25. Cesar Knight			
17.	Tamena Williams	26. Héctor Cárdenas			
		20. Hector Cardenas			

27. Ernest Arzú28. Víctor Andrade

MEXICO/MÉXICO

15. José Guillermo Manzo16. Abraham Velázquez

IATA

- 29. José Fernando Rojas
- 30. Julio Cesar de Pereira
- 31. Phil Santos
- 32. Justin Lonie
- 33. Eduardo Ravera
- 34. Juan Carlos Muñoz
- 35. Gen Schnee
- 36. Esther Eivinsen
- 37. Ryan Wilson
- 38. Bob Oberstar
- 39. William Rubiano
- 40. Adam Davis

NAVBLUE

41. Craig McFarlane

ICAO/OACI

- 42. Julio Siu
- 43. Ernie Snyder

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Salvamento		

Attachment/Adjunto B

3rd Meeting of the NAM CAR Regional Airspace Optimization Team DRAFT REVISED AGENDA 27 January 2022

https://icao.zoom.us/meeting/register/tJlldegprzkiEtauUDfxpQuvF-6JxgX98P0x

- 1. Belize M208 plan
- 2. Route Proposals
- 3. WALKY Request Status
- 4. Introduction of Horizontal Free Route Airspace (FRA) Concept
- 5. Introduction of Vertical FRA Concept
- 6. Introduction of Ultra High FRA Proposal (Midnight operations)
- 7. Other Business

3ª Reunión del Equipo Regional NAM/CAR de Optimización del Espacio Aéreo ORDEN DEL DÍA PROVISIONAL

27 de enero de 2022

https://icao.zoom.us/meeting/register/tJlldeqprzkiEtauUDfxpQuvF-6JxgX98P0x

- 1. Plan Belice M208
- 2. Propuesta de rutas
- 3. Estado de la solicitud WALKY
- 4. Introducción al concepto de Espacio aéreo de rutas libres (FRA) horizontal
- 5. Introducción al concepto FRA vertical
- 6. Introducción de la propuesta FRA ultra alta (operaciones de medianoche)
- 7. Otros asuntos