



OACI

Organización de Aviación Civil Internacional
Oficina para Norteamérica, Centroamérica y Caribe
NOTA DE ESTUDIO

ANI/WG/4 — NE/10
22/05/18

**Cuarta Reunión del Grupo de Trabajo sobre implementación de Navegación Aérea para las Regiones
NAM/CAR (ANI/WG/4)**

Miami, Estados Unidos, 21 – 24 de agosto de 2018

**Cuestión 4 del
Orden del Día:**

**Seguimiento, evaluación de desempeño y monitoreo del Plan de
Implementación de Navegación Aérea Basado en la Performance para la
Región CAR**

4.1 Informes de avance de los Grupos de Tarea del ANI/WG

INFORME DE AVANCE DEL GRUPO DE TAREA AIDC

(Presentada por el Relator del Grupo de Tarea AIDC del ANI/WG)

RESUMEN EJECUTIVO	
Esta Nota de Estudio presenta el avance del Grupo de Tarea AIDC y el grupo Ad hoc de monitoreo de Plan de Vuelo (FPL), desde la Quinta Reunión del Grupo de Trabajo de Norteamérica, Centroamérica y Caribe (NACC/WG/5); así como los Términos de Referencia (ToR) y programa de trabajo actualizados para cada grupo.	
Acción:	Las acciones sugeridas se presentan en la Sección 3.
Objetivos Estratégicos:	• Seguridad Operacional • Capacidad y eficiencia de la navegación aérea
Referencias:	• Tercera Reunión del Grupo de Trabajo sobre implementación de Navegación Aérea para las Regiones NAM/CAR (ANI/WG/3), Ciudad de México, México, 4 al 6 de abril 2016 • Quinta Reunión del Grupo de Trabajo de Norteamérica, Centroamérica y Caribe (NACC/WG/5), Puerto España, Trinidad y Tabago, 22-26 de mayo de 2017

1. Introducción

1.1 El Grupo de Tarea AIDC fue creado en la Primera Reunión del ANI/WG para agilizar la implementación del AIDC. Como resultado de la importancia que los errores de planes de vuelo tienen para la implementación exitosa del AIDC, posteriormente se formó un grupo Ad hoc de monitoreo de FPL para dar seguimiento a este problema en específico. Esta nota de estudio presenta los resultados que estos dos grupos han producido durante el año pasado, así como también las metas y el programa de trabajo para los siguientes doce meses.

2. Informe del Avance del AIDC

Términos de Referencia y Programa de Trabajo

2.1 Los términos de referencia de ambos grupos incluyen la membresía, la cual ha sido modificada durante el año. Se presentan en los **Apéndices A y B**, respectivamente.

Plan Regional

2.2 El plan regional actualizado se presenta en el **Apéndice C**.

Actividades del Grupo de Tarea

2.3 Actividades en general: El Grupo de Tarea AIDC tuvo dos teleconferencias, al igual que el Grupo de monitoreo del FPL.

2.4 Se realizaron dos reuniones cara a cara contando con la participación de ambos grupos:

- a) una reunión conjunta con el Grupo de Tarea del AIM en Tegucigalpa, Honduras, del 30 de octubre al 3 de noviembre de 2017;
- b) una con los miembros análogos de la Región SAM en Lima, Perú, del 16 al 20 de abril de 2018.

2.5 En ambas reuniones, se contó con la participación de varios explotadores aéreos, aparte de IATA, y en la última reunión con los proveedores de sistemas, en todos los casos siendo muy productivas y fructíferas para determinar acciones tales como la creación de procedimientos homogéneos discutidos posteriormente en esta nota, así como las recomendaciones de los proveedores con respecto al AIDC, incluidas en el informe final de la reunión NAM/CAR/SAM mencionada en el párrafo 2.4 b)

2.6 Nueva Implementación AIDC: durante el año no hubo implementaciones AIDC en la región. Varios Estados se encuentran en proceso de implementar nuevos sistemas ATC que permitirán la implementación del AIDC.

2.7 Decisión de Métricas AIDC: El Grupo de Tarea consideró diferentes métricas de performance para la implementación AIDC, tomando en cuenta los beneficios esperados especificados en el GANP y el RPBANIP. Estas métricas se presentan en el **Apéndice D**.

2.8 Recolección de Datos: Se llevó a cabo la recolección de datos del 5 al 12 de marzo. Esta recolección de datos incluyó todo tipo de errores, no solo planes de vuelo duplicados. Esta recolección de datos fue realizada como referencia de la situación actual en preparación para la Reunión de SAM. Un resumen de los resultados se presenta en el **Apéndice E**.

2.9 Procedimiento Homogéneo: Durante la reunión cara a cara en Honduras, se propuso un procedimiento homogéneo para el procesamiento de planes de vuelo como medida de mitigación para los errores de planes de vuelo. El procedimiento fue desarrollado y discutido, y se presenta en el **Apéndice F**. El procedimiento también fue presentado durante la Reunión con miembros de la Región SAM, pero no se logró un consenso con respecto a un procedimiento unificado para ambas regiones.

2.10 Coordinación con SAM: Durante la reunión con la Región SAM, se propuso que un grupo como el Grupo de Monitoreo FPL sea creado para desempeñar tareas similares para la Región. La Reunión propuso un relator para este propósito, y se programó una teleconferencia para la segunda semana de junio de 2018 para acordar en cómo se coordinaran las actividades entre los dos grupos mediante los respectivos relatores.

FPL2012 Lista de Verificación Pos implementación (Lista de Convertidores)

2.11 La lista de verificación de convertidores actualizada se presenta en el **Apéndice G**.

Programas de Trabajo del Grupo de Tarea AIDC y el Grupo de monitoreo FPL

2.12 En el **Apéndice H** se presenta el programa de trabajo del Grupo de Tarea del AIDC y el Grupo de monitoreo del FPL. El programa de trabajo refleja las tareas asignadas a los grupos de las distintas reuniones regionales y de grupo, así como también las teleconferencias.

3. Acciones sugeridas

Se invita a la Reunión a:

- a) revisar y aprobar los Términos de Referencia y Programas de Trabajo actualizados respectivos del Grupo de Tarea AIDC y del Grupo de Monitoreo FPL;
- b) evaluar el avance del Grupo de Tarea AIDC; y
- c) proponer cualquier otra acción o tarea que se considere necesaria.

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APPENDIX A

TASK FORCE ON AIR TRAFFIC SERVICES INTER-FACILITY DATA COMMUNICATIONS INTERFACILITY DATA COMMUNICATION (AIDC) TASK FORCE MEMBERSHIP

(AIDC) IMPLEMENTATION

Background

During the first ANI/WG meeting, an AIDC Implementation Task Force was formed in order to streamline related air navigation implementation activities. This Task Force shall complete AIDC implementation in accordance with the Regional AIDC Implementation Plan as well as update and report progress to the ANI/WG based on the action plan for these tasks.

Responsibilities

The Task Force is responsible for:

- a) Work Programme Management
- b) Analyzing and coordinating mitigation/solution actions for duplicate/missing FPLs
- c) Coordinating, implementation, and trials for AIDC implementation (Regional Plan).

Working Methods

The Task Force will:

Present its work programme containing activities in terms of objectives, responsibilities, deliverables and timelines.

Avoid duplicating work within the ANI/WG and maintain close coordination among the existing entities to optimize use of available resources and experience.

Designate, as necessary, Ad hoc Groups to work on specific topics and activities and organize clearly defined tasks and activities

Coordinate tasks to maximize efficiency and reduce costs via electronic means including emails, telephone and teleconference calls, and convene meetings as necessary.

Report on and coordinate the progress of assigned tasks to the ANI/WG.

Membership

Member Name	State/Territory/Organization	Email
Troy Wilton	Canada	wiltont@navcanada.ca
Jenny Lee	COCESNA	jenny.lee@cocesna.org
Manuel Flores	COCESNA	manuel.flores@cocesna.org
Fernando Naranjo Elizondo	Costa Rica	fer_nar_eli@hotmail.com
Warren Quiróz	Costa Rica	navegacionaerea.cns@dgac.go.cr
Carmen De Armas	Cuba	carmen.dearmas@iacc.avianet.cu
Jorge Centella	Cuba	jorge.centella@iacc.avianet.cu
Manuel Castillo	Cuba	manuel.castillo@iacc.avianet.cu
Fernando Cassó Rodríguez	Dominican Republic	fernando.casso@idac.gov.do
Julio César Mejía	Dominican Republic	jmejia@idac.gov.do
Abang Floyd	IATA	abangf@iata.org
Oscar Vargas Antonio	Mexico	ovargasa@sct.gob.mx
Miguel Angel Reyes Rodríguez	Mexico	mrking61@gmail.com
Daniel Conrado Castañeda	Mexico	dcastane@sct.gob.mx
Alexis Brathwaite	Trinidad and Tobago	abrathwaite@caa.gov.tt
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Randy Gomez	Trinidad and Tobago	rgomez@caa.gov.tt
Ricky Bissessar	Trinidad and Tobago	rbissessar@caa.gov.tt
Vidianand Maraj	Trinidad and Tobago	vmaraj@caa.gov.tt
Dan Eaves	United States	dan.eaves@faa.gov

APPENDIX B**FPL MONITORING GROUP
TERMS OF REFERENCE****1. Background**

The AIDC Implementation Task Force was formed during the first ANI/WG meeting to streamline related air navigation implementation activities. Among these is analyzing and coordinating mitigation/solution actions for duplicate/missing FPLs. During the 4th teleconference of the Task Force, a document was produced analyzing this issue, and an FPL monitoring group was proposed to report on problems and follow up on their solution in the matter of duplicate and erroneous FPLs. This monitoring group was formed during the 4th NACC/WG meeting in March 2014 as an ad-hoc group of the AIDC Implementation Task Force.

2. Responsibilities

The FPL monitoring group is responsible for:

- a) Provide guidance to States to regularly collect and report FPL duplication/error issues.
- b) Propose common solutions to flight plan issues in the region based on analysis of data and lessons learned.
- c) Overseeing the execution of the FPL mitigation/solution action plan.
- d) Providing statistical data of the errors detected in the filing of flight plans in their State.

3. Working Methods

The FPL monitoring group will:

1. Carry out the activities assigned by the AIDC Task Force in accordance to the FPL related tasks.
2. Conduct periodic teleconferences to review progress of the action plan and propose modifications as needed.
3. Present periodic reports to the AIDC Task Force on detected errors and corresponding actions undertaken.
4. Report to the AIDC Task Force Rapporteur.

4. Membership

- a. There will be a member representing each FIR in the region, who may be supported by other representatives from each State in the FIR.

Member Name	State/Territory/ International Organization	Email
Lorraine Davis	Antigua and Barbuda	sivad81@hotmail.com
Gilberto Torres	Belize	gilberto.torres@civilaviation.gov.bz
Fernando Naranjo Elizondo Luis Miranda Muñoz Asdrúbal Sanders Warren Quirós	Costa Rica	fer_nar_eli@hotmail.com ; lmiranda@dgac.go.cr ; asanders@dgac.go.cr ; navegacionaerea.cns@dgac.go.cr
Jorge Centella Joao Vásquez	Cuba	jorge.centella@iacc.avianet.cu Joao.vasquez@aeronav.avianet.cu
Jacques Lasten Natasha Leonora-Belefanti	Curaçao	j.lasten@dc-ansp.org n.leonora-belefanti@dc-ansp.org
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Margarita Rangel (support) Daniel Conrado Castañeda Ricardo Sánchez G.		mrangel@sct.gob.mx dcastane@sct.gob.mx risangu@icloud.com
Fernando Casso (Rapporteur) Orlando Concepción	Dominican Republic	fernando.casso@idac.gov.do orlando.concepcion@idac.gov.do
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Jenny Lee (Main) Manuel Flores	COCESNA	jenny.lee@cocesna.org manuel.flores@cocesna.org
Marco Vidal	IATA	vidalm@iata.org

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APPENDIX C

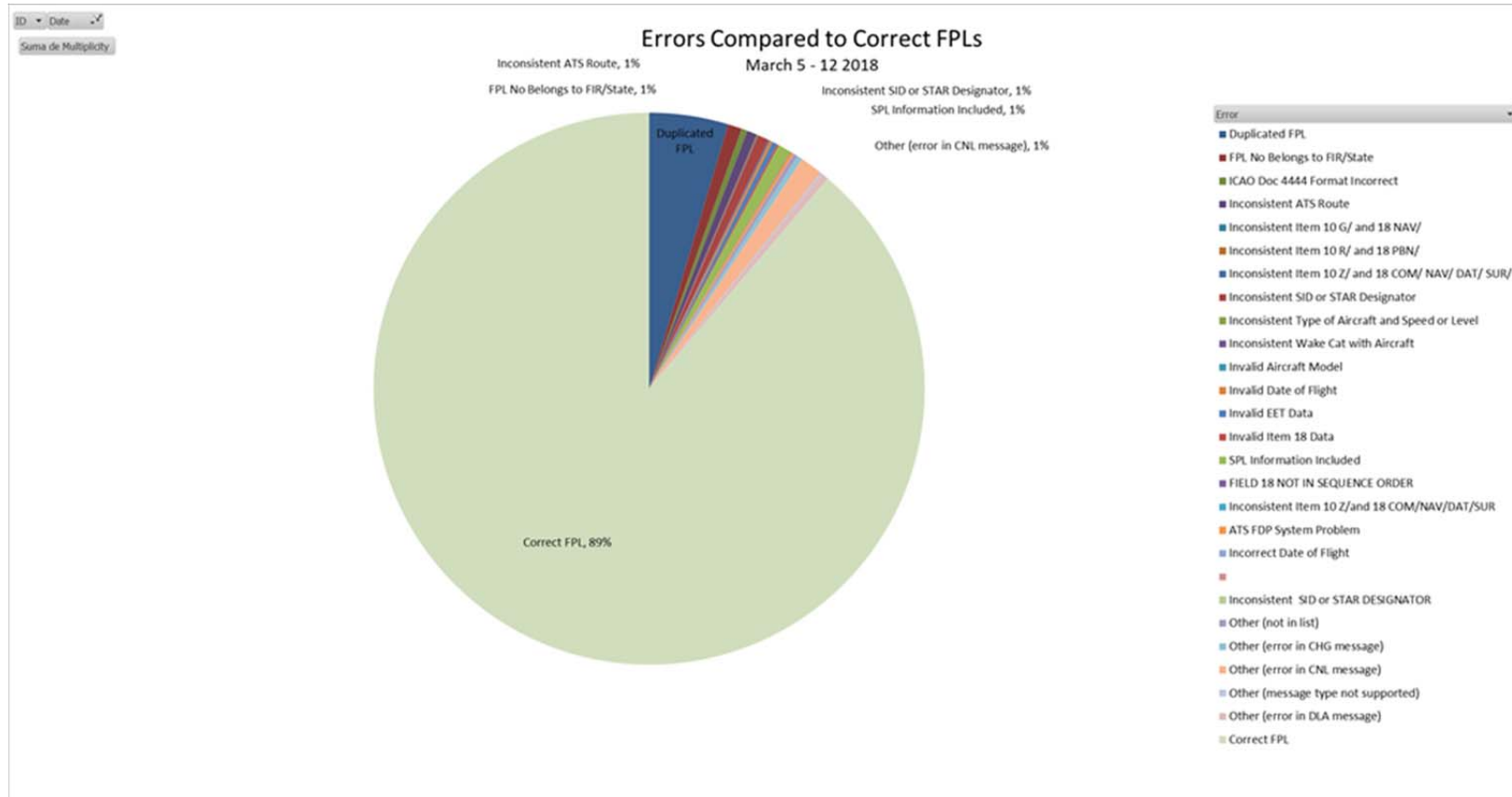
UPDATED REGIONAL PLAN

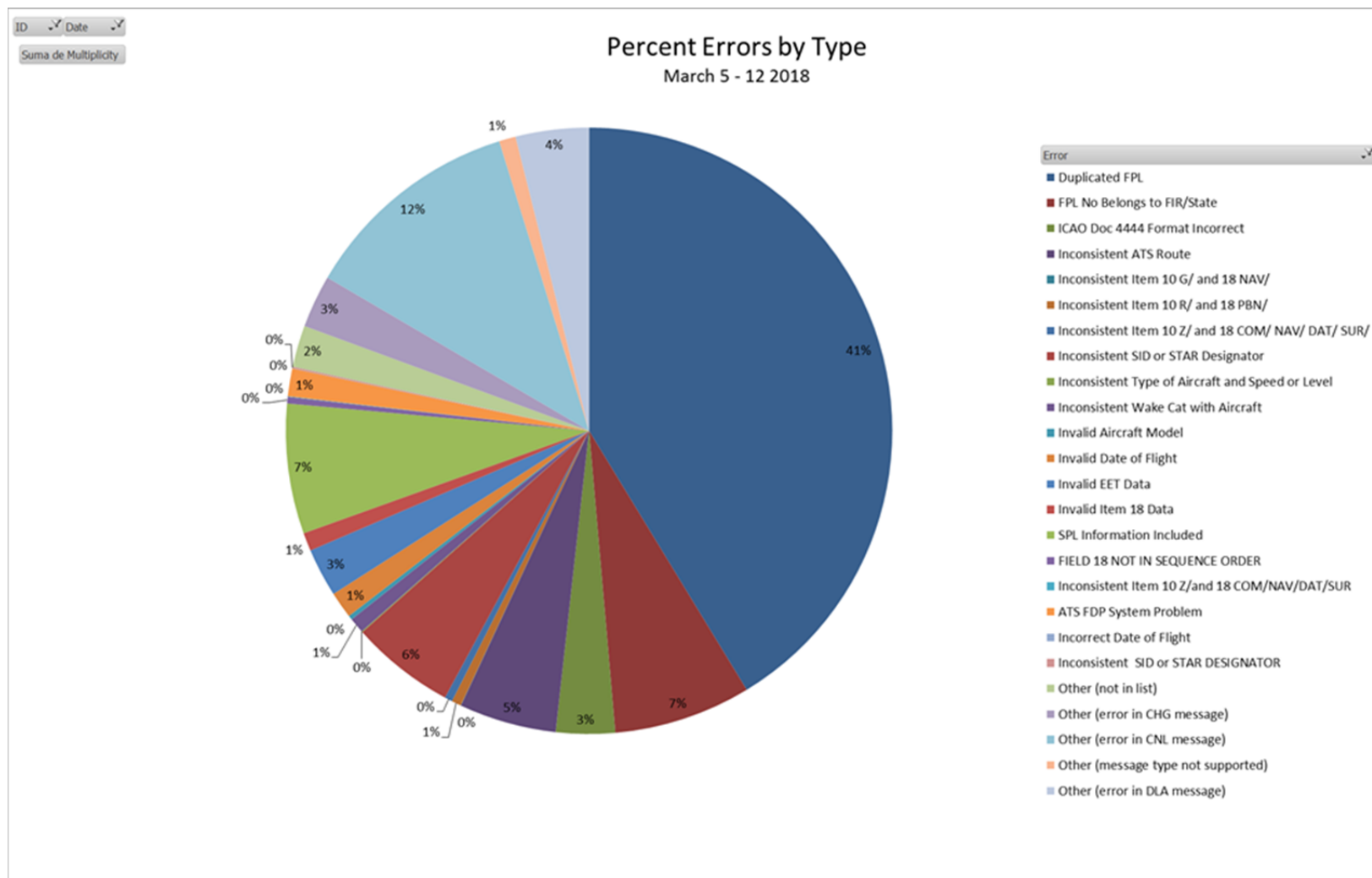
Interface	State or Organization	Adjacent State or Organization	Interface Class	Interface Status	Implementation Date	Bilateral Agreement or ICD	Comments
Albuquerque-Mazatlán	Mexico	United States	Class I	Operational	2005	NAM-ICD Version E	
Albuquerque-Monterrey	United States	Mexico	Class I	Operational	2005	NAM-ICD Version E	
Anchorage-Edmonton	United States	Canada	Class II	Operational	0	NAM-ICD Version D	
Anchorage-Vancouver	United States	Canada	Class II	Operational	0	NAM-ICD Version D	
Belize-CENAMER	COCESNA	Belize	N/A	Planned	2018	PAC ICD	
Belize-Guatemala	Guatemala	Belize	N/A	Planned	2017	PAC ICD	
Bogota-CENAMER	COCESNA	Colombia	N/A	Testing	2018	PAC ICD	
Boston-Moncton	United States	Canada	Class II	Operational	0	NAM-ICD Version D	
Boston-Montreal	United States	Canada	Class II	Operational	0	NAM-ICD Version D	
Boston-Toronto	Canada	United States	Class II	Operational	0	NAM-ICD Version D	
CENAMER-Costa Rica	COCESNA	Costa Rica	N/A	Planned	2018	PAC ICD	
CENAMER-El Salvador	COCESNA	El Salvador	N/A	Operational	October 2015	PAC ICD	
CENAMER-Guatemala	COCESNA	Guatemala	N/A	Operational	December 2015	PAC ICD	
CENAMER-Guayaquil	COCESNA	Ecuador	N/A	Testing	TBD	PAC ICD	
CENAMER-Havana	COCESNA	Cuba	Class I	Operational	0	NAM-ICD Version E	
CENAMER-Kingston	COCESNA	Jamaica	N/A	Planned	TBD	NAM-ICD Version E	
CENAMER-Merida	COCESNA	Mexico	N/A	Operational	Jul-1905	NAM-ICD Version E	Voice confirmation
CENAMER-Nicaragua	COCESNA	Nicaragua	N/A	Operational	September 2015	PAC ICD	
CENAMER-Panama	COCESNA	Panama	N/A	Operational	2016	PAC ICD	
CENAMER-San José	Costa Rica	COCESNA	N/A	Planned	2018	PAC ICD	
Cleveland-Montreal	Canada	United States	Class II	Operational	0	NAM-ICD Version D	
Cleveland-Toronto	United States	Canada	Class II	Operational	0	NAM-ICD Version D	
Costa Rica-Nicaragua	Nicaragua	Costa Rica	N/A	Planned	2017	PAC ICD	
Curacao-Kingston	Curacao	Jamaica	N/A	Planned	0	NAM-ICD Version D	
Curacao-Maiquetia	Curacao	Venezuela	N/A	Planned	0		0
Curacao-Santo Domingo	Dominican Republic	Curacao	N/A	Planned	TBD	PAC ICD	
Edmonton-Reykjavik	Canada	Iceland	Class I	Operational	0	NAT ICD	
Edmonton-Salt Lake City	Canada	United States	Class II	Operational	0	NAM-ICD Version D	
Edmonton-Seattle	Canada	United States	Class II	Operational	0	NAM-ICD Version D	
El Salvador-Guatemala	El Salvador	Guatemala	N/A	Planned	Jun-2016	PAC ICD	
El Salvador-Nicaragua	El Salvador	Nicaragua	N/A	Planned	May-2016	PAC ICD	
French Guyanne-PIARCO	Trinidad and Tobago	French Guyanne	N/A	Planned	TBD	???	
Gander-New York	Canada	United States	Class II	Operational	0	NAT ICD	
Gander-Prestwick	Canada		Class II	Operational	0	NAT ICD	
Gander-Reykjavik	Canada	Iceland	Class II	Operational	0	NAT ICD	
Gander-Santa Maria	Canada		Class II	Operational	0	NAT ICD	
Havana-Kingston	Cuba	Jamaica	N/A	Planned	Q3 2018	NAM-ICD Version D	
Havana-Merida	Cuba	Mexico	Class I	Operational	March 9, 2012	NAM-ICD Version E	
Havana-Miami	Cuba	United States	Class I	Operational	December 15, 2011	NAM-ICD Version D	
Havana-Port au Prince	Cuba	Haiti	N/A	Not planned	TBD		0
Houston-Merida	United States	Mexico	Class I	Operational	0	NAM-ICD Version E	
Houston-Monterrey	United States	Mexico	Class I	Operational	2005	NAM-ICD Version E	
Los Angeles-Mazatlán	United States	Mexico	Class I	Operational	0	NAM-ICD Version E	
Maiquetia-PIARCO	Trinidad and Tobago	Venezuela	N/A	Planned	TBD		0
Mazatlán-México	Mexico	Mexico	Class I	Operational	2005	LOA	
Mazatlán-Monterrey	Mexico	Mexico	Class I	Operational	2005	LOA	
Mazatlán-Oakland	Mexico	United States	N/A	Operational	March 2015	PAN ICD V.1	Voice confirmation
Mérida-México	Mexico	Mexico	Class I	Operational	2005	LOA	
Mérida-Monterrey	Mexico	Mexico	Class I	Operational	2005	LOA	
México-Monterrey	Mexico	Mexico	Class I	Operational	2005	LOA	
Miami-Nassau	United States	Bahamas	N/A	Planned	TBD	NAM-ICD Version D	
Miami-Santo Domingo	United States	Dominican Republic	Class I	Implementing	Q3 2019	NAM-ICD Version E	
Minneapolis-Toronto	United States	Canada	Class II	Operational	0	NAM-ICD Version D	
Minneapolis-Winnipeg	United States	Canada	Class II	Operational	0	NAM-ICD Version D	
Moncton-New York	Canada	United States	Class II	Planned	TBD	TBD	
New York-PIARCO	Trinidad and Tobago	United States	N/A	Planned	Q4 2018	PAN ICD	
Nicaragua-San José	Costa Rica	Nicaragua	N/A	Planned	2018	PAC ICD	
Oakland-Vancouver	United States	Canada	Class II	Operational	0	NAM-ICD Version D	
Panama-San José	Costa Rica	Panama	N/A	Planned	2018	PAC ICD	
PIARCO-SAL	Trinidad and Tobago		N/A	Planned	TBD	NAM-ICD Version D	
PIARCO-San Juan/Miami	Trinidad and Tobago	United States	N/A	Planned	TBD	NAM-ICD Version D	
Port au Prince-Santo Domingo	Dominican Republic	Haiti	N/A	Not planned	TBD		0
Salt Lake City-Vancouver	Canada	United States	Class II	Operational	0	NAM-ICD Version D	
Salt Lake City-Winnipeg	United States	Canada	Class II	Operational	0	NAM-ICD Version D	
San Juan-Santo Domingo	United States	Dominican Republic	Class I	Planned	September 2018	NAM-ICD Version D	
Seattle-Vancouver	United States	Canada	Class II	Operational	0	NAM-ICD Version D	
Kingston-Panama	Jamaica	Panama	N/A	Planned	Q3 2018	PAN ICD V.1	
Curacao-Kingston	Jamaica	Curacao	Class I	Planned		PAN	
Belize-Merida	Belize	Mexico					

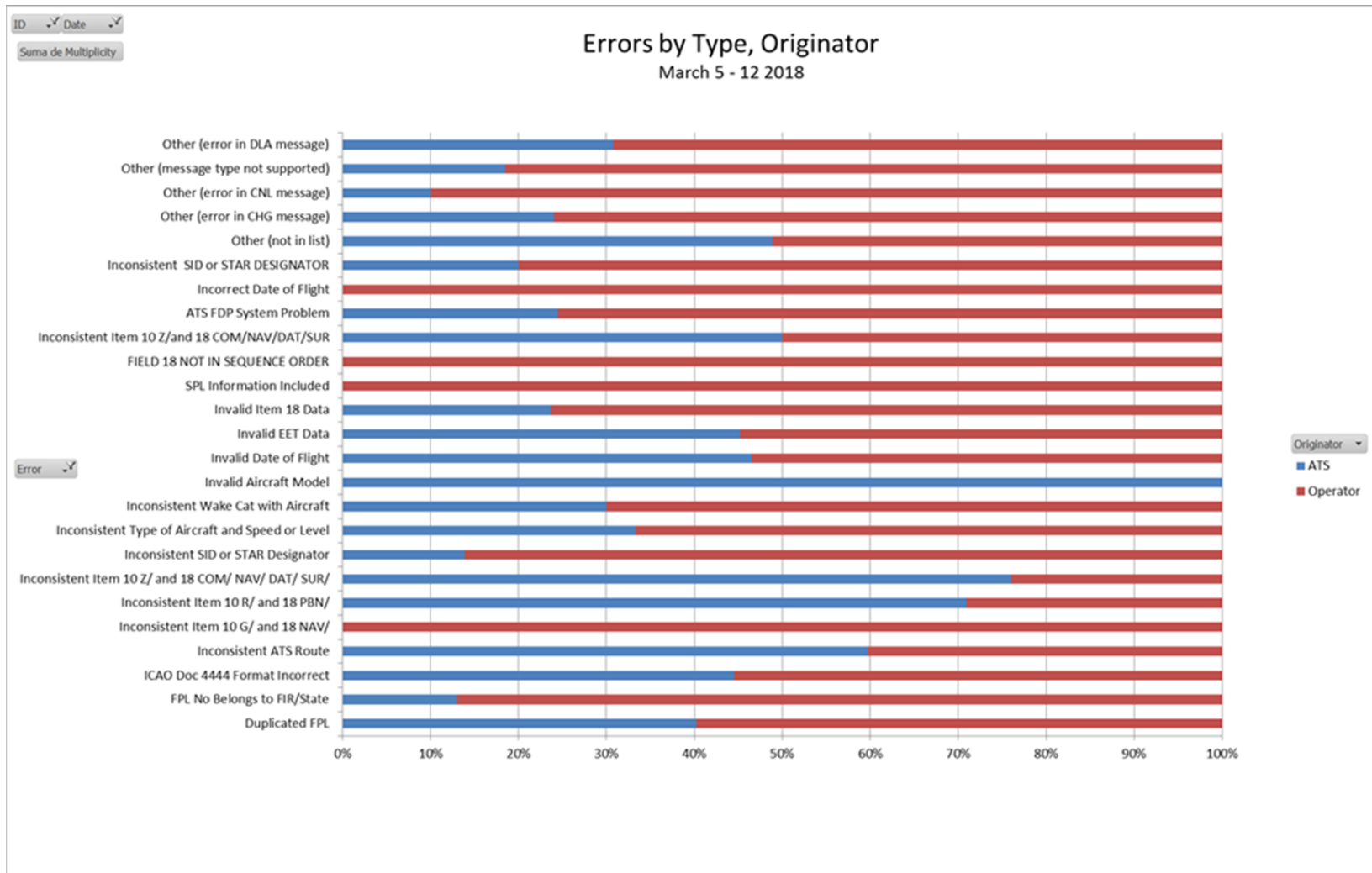
INITIAL AIDC PERFORMANCE METRICS

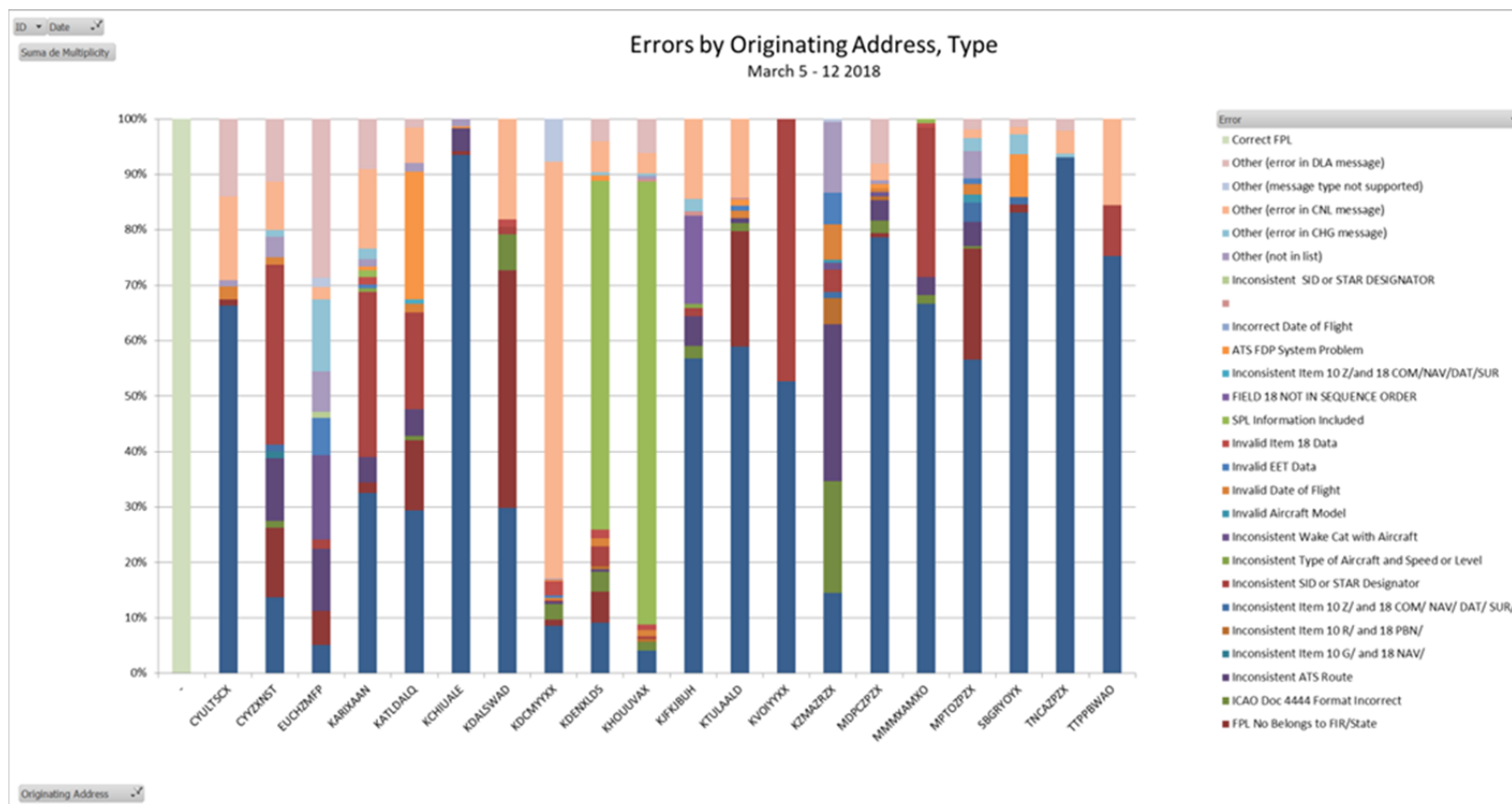
EXPECTED BENEFIT	PERFORMANCE METRIC	CALCULATION
Increased data integrity	Percent difference in coordination error rate	Coordination error rate = number of coordination errors at boundary X per hour/number of operations per hour at boundary X
Xsector / boundary capacity flow increase	Difference in traffic flow at boundary	Traffic flow at boundary X = Number of operations per hour at boundary X
Reduced risk of coordination errors	Percent difference in coordination error rate	Coordination error rate = number of coordination errors at boundary X per hour/number of operations per hour at boundary X
	AIDC interface use percentage	Number of operations coordinated with AIDC at boundary X per hour / number of operations coordinated at boundary X

FLIGHT PLAN STATISTICS



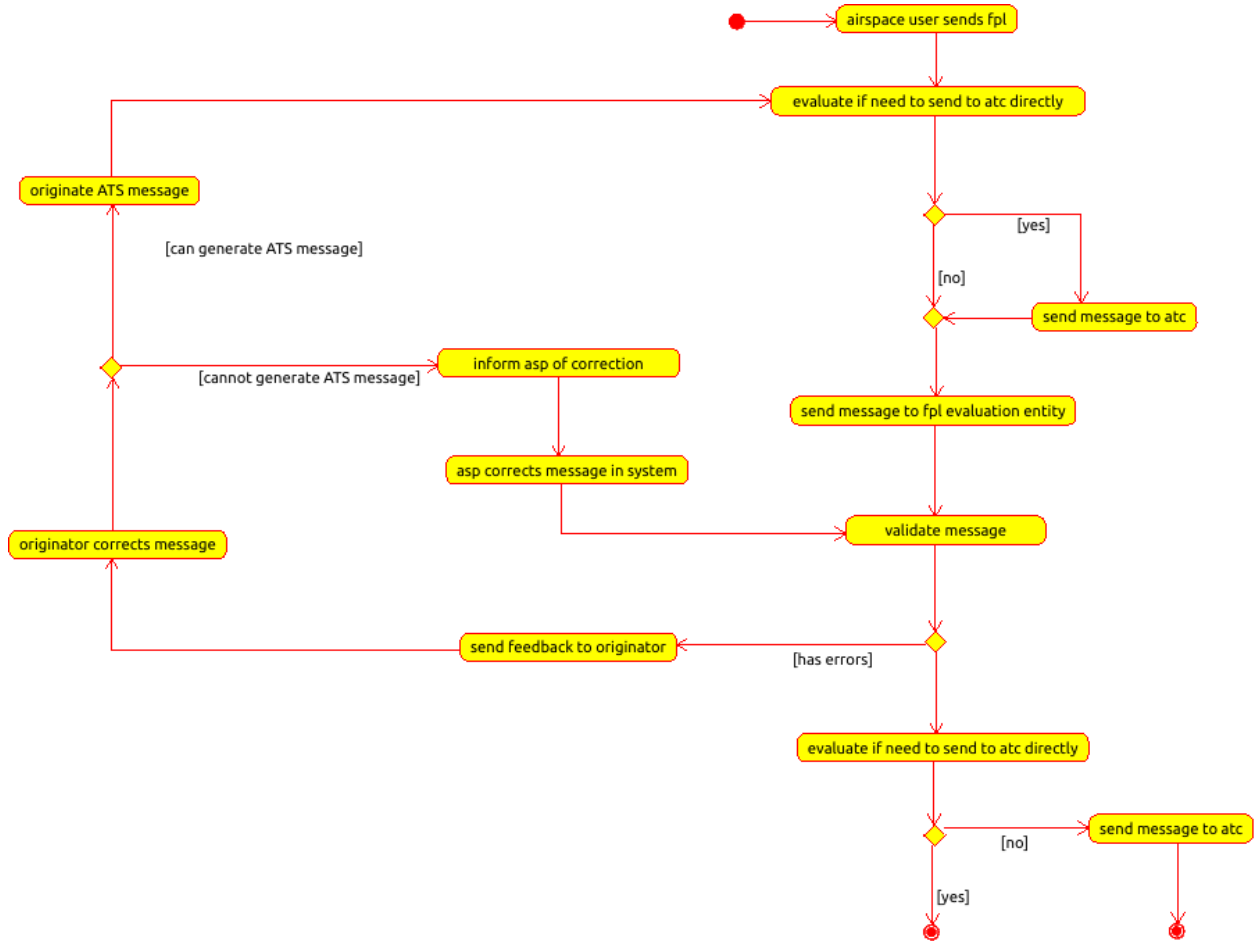






APPENDIX F

HOMOGENEOUS FLIGHT PLAN PROCESSING PROCEDURE



APPENDIX G

**FPL2012 POST IMPLEMENTATION CHECKLIST AND
FOLLOW-UP TO FPL2012 FULL COMPLIANCE ACTIVITIES**

State	Solution	
	AFTN Terminal – FPL	ATC Automated System – FDP
Anguilla	Implemented	Manual
Antigua and Barbuda	Implemented	Manual
Aruba	Implemented	Implemented
Bahamas	Implemented	Implemented
Barbados	Implemented	Implemented
Belize	Implemented	Implemented
Bermuda	Implemented	Manual
British Virgin Islands	Implemented	Manual
Canada	Implemented	Implemented
Cayman Islands	Implemented	Implemented
Costa Rica	Implemented	Implemented
Cuba	Implemented	Implemented
Curacao	Implemented	Implemented
Dominica	Implemented	Manual
Dominican Republic	Implemented	Implemented
El Salvador	Implemented	Implemented
Grenada	Implemented	Implemented
Guatemala	Implemented	Implemented
French Antilles	Implemented	Implemented
Haiti	Manual	Manual
Honduras	Implemented	Full upgrade planned (converter in use)
Jamaica	Implemented	
Mexico	Implemented	
Montserrat	Implemented	Manual
Netherlands (BES Islands)	Manual	Manual
Nicaragua	Implemented	Implemented
Saint Kitts and Nevis	Implemented	Manual
Saint Lucia	Implemented	Manual
Saint Vincent and the Grenadines	Implemented	Manual
Sint Maarten	Implemented	Implemented
Trinidad and Tobago	Implemented	Implemented
Turks and Caicos Islands	Implemented	Implemented
United States	Implemented	Implemented
COCESNA	Implemented	Implemented

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APPENDIX H

AIDC TASK FORCE AND FPL MONITORING GROUP WORK PROGRAMME

Task Description			Start Date	End Date	% complete
1 Eliminate converters					0
	1.1 Update ATC systems		01/01/17	02/01/17	0
	1.2 Update messaging systems		01/01/17	02/01/17	0
2 FPL errors					0
	2.1 Implement homogeneous procedure				0
		2.1.1 Develop procedure	31/10/17	02/11/17	100
		2.1.2 send a survey to airlines to determine flight plan processing systems capabilities	03/11/17	03/11/17	0
		2.1.3 send a survey to ANSPs to determine flight plan processing systems capabilities	03/11/17	11/12/17	0
		2.1.4 discuss and agree on the use of ATS messages, in the light of the capabilities of the systems	11/12/17	30/03/18	0
		2.1.5 carry out trials as proof of concept of the regional procedure, by means of bilateral agreements	30/03/18	29/06/18	0
		2.1.6 review and publish the addresses to which airspace users should send flight plans, taking into account the capabilities of their systems and in accordance with the regional procedure	29/06/18	28/09/18	0
		2.1.7 propose the resulting procedure for flight plan processing, based on the discussed procedure and considering the results of items c) and d) of this decision, to be the regional procedure, and request its publication in Doc 7030 - Regional Supplementary Procedures	29/06/18	28/09/18	0
	2.2 Improve feedback between airlines and ATS units				0

		2.2.1 update the contact list for the 3, in which to include Aeronautical Fixed Telecommunication Network (AFTN)/Aeronautical Message Handling System (AMHS) addresses, e-mail addresses and/or phone numbers for the entity responsible for handling flight plan errors, for uploading to the ANI/WG AIDC Task Force web page (https://www.icao.int/NACC/Pages/regional-group-AIDC.aspx)	03/11/17	30/11/17	0
		2.2.2 create an ANSPs contact list for, in which to include AFTN/AMHS addresses, email addresses and/or phone numbers for the entity responsible for handling flight plan errors, for uploading to the AIDC Task Force web page, and also update the Aeronautical Information Publication (AIPs) of each State accordingly	03/11/17	01/12/17	0
		2.2.3 review and recommend the use of the reference of the Rejection Message (REJ/ACK) guidance from Cuba, United States and COCESNA, and for future updates and implementation of flight plan processing systems	03/11/17	08/12/17	0
		2.2.4 create a guidance document for determining which circumstances require a rejection of flight plans and which does not	03/11/17	15/12/17	0
		2.2.5 consider and carry out user teleconferences with the participation of air navigation personnel as deemed necessary	03/11/17	03/11/17	0
		2.2.6 promote and carry out regional user teleconferences to follow up on pertinent issues	03/11/17	03/11/17	0
	2.3 Maintenance of aircraft type database				0
		2.3.1 update aircraft type data	03/11/17	03/11/17	0
		2.3.2 develop a procedure to allow timely update of this data	03/11/17	03/11/17	0
3 Implement ATS automated message exchanges as required (FPL, CPL, CNL, DLA, etc.)					0
	3.1 AIDC implementation class 1-2		01/01/17	02/01/17	0

— H3 —

4 Implement automated radar handoffs where possible					0
	4.1 AIDC implementation class 3		01/01/17	02/01/17	0
5 Improve training					0
	5.1 Identify and inform of training needs for the application and implementation of ATS system automation		01/01/17	02/01/17	0
	5.2 Enhance the training infrastructure of the region and the training programs related to surveillance and automated systems		01/01/17	02/01/17	0

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