



**Agenda Item 3: NAM/CAR
Pending AIDC Implementation
Process**

**AIDC/NAM
Coordination
status**

**Flight plan
rejection
statistics**



AIDC/NAM current situation

COCESNA coordinates control transfer conditions with adjacent ATS units, and approach centers within its flight information region.

The adjacent control centers with which we carry out said coordinations are 6 as detailed below:

- Mérida NAM coordination percentage 93%
- La Habana NAM coordination percentage 95%
- Kingston pending to define
- Panamá AIDC coordination percentage 91%
- Bogotá AIDC In connection tests
- Guayaquil AIDC coordination percentage 96%





AIDC/NAM current situation

The AIDC testing phase with Guayaquil control is over, the percentage of coordination between both units was successful (96%), the verification of estimates using the voice channel was canceled in January 2020

The approach dependencies with which we coordinate via AIDC and their automation percentages are detailed below:

• La Aurora control	AIDC	automation percentage	82%
• El Salvador Control	AIDC	automation percentage	88%
• Sandino Approach	AIDC	automation percentage	93%

In the case of La Aurora control and El Salvador Control, Automation is affected due the existence of factors that affect said percentages to increase.

Some of them are:

- Flight plan duplicity
- Data base lack of homologation
- Incomplete routes
- Lack of update in databases according to operative needs
- Database limitations



Error examples in field 15

CPL-SLI679/A4754-IS
-E190/M-SWYDFGIRZ/S
-MGGT-1410N09028W/0148F190
-N0442F380 DCT 1410N09028W DCT VILDA DCT ABVILD DCT
AUR DCT KALPA DCT OMISO **UA552 KESLI UA552**
-MMM
-PBN/A1B1C1D1 NAV/SBAS DOF/191025 REG/XADAC
EET/MMFR0020

Incomplete route

```
02-09-19 21:16:22 lat.  
IHT634 022116  
|FF MHCCAIDC  
022116 MPZLZQZX 2.002451-4.190902211614-5.C55F-  
(ABI-AMX762/A2221-SKBO-ISEBA/2146F360-MMMX-8/IS-9/B737/M  
-10/SWYDE2E3FGHIR/S-15/N0458F360 WRON UL423  
-18/PBN/A1B1C1D1O2S1S2 DAT/1PDC DOF/190902 REG/XAAME SEL/PQAG  
CODE/0D0771 OPR/AMX)
```

Incomplete route

Database update plan follow up



- February 2019:

An update is made in El Salvador's control database, so that the latest version of the software installed by INDRA is available.

- March 2019:

The Aurora Control's database was updated, and a meeting was held with operational personnel in order to define the necessary homologation requirements in the databases, to increase the automation percentages.

- May 2019:

The new approach control center, La Mesa control, is installed in the city of La Lima, Cortés. It is pending to do work in the database to homologate it with CENAMER'S.

The installed version of software has the AIDC protocol integrated, the connection proof with CENAMER will be done. This Work will be carried out in March 2020 as part of operational tests.



2020 AIDC activities plan

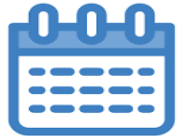
The following activities are planned for this year in order to increase CENAMER's AIDC coordination capacity:

- March:

Teleconferences with personnel of Goldson Approach (Belize) and El Coco Control (Costa Rica), to determine operational needs for the accomplishment of AIDC connection tests. Define start dates for the tests and the protocol to be carried out with both units, as well define the people who will be responsible for these activities.

- May:

Work Tour to Goldson Approach (Belize) to standardize databases, train operational staff on the use of the AIDC protocol. This phase is pre-operative, later the test time between both units will be established to measure the acceptable percentage of coordination between both units, and define the personnel who will be responsible for these activities.





2020 AIDC activities plan

July:

Work Tour to El Coco Control (Costa Rica) to standardize, train operational personnel on the use of the AIDC protocol. This phase is pre-operative, then the test time between both units will be established to measure the correct use of the protocol, then verify the percentages of coordination between both units.



September:

Work tour to Goldson Approach, in order to serve as support for the NAM connection process between Belize and Mérida control.



El Salvador Control Flight plan rejection statistics



2019	AFTN ADRESSES- RECEIVED FROM EL SALVADOR					
MONTH	MSSSZPZX	PERCENTAGES	MSLPZPZX	PERCENTAGES	MSLPZQZX	PERCENTAGES
OCTOBER	177	28%	2324	34%	28	35%
NOVEMBER	228	36%	2280	33%	11	14%
DECEMBER	220	35%	2236	33%	41	51%
TOTAL	625	100%	6840	100%	80	100%
TOTAL MESSAGES	7545					

2019	AFTN ADRESSES- REJECTED FROM EL SALVADOR		
Error Code Description	MSSSZPZX	MSLPZPZX	MSLPZQZX
DUPLICATE FPL STORED	2	0	63
INVALID CODE/ FORMAT	0	1	0
INVALID SEL/ REPEATED LETTERS	0	1	0
TOTAL	2	2	63
REJECTION PERCENTAGE	0.32%	0.03%	78.75%



La Aurora Control

Flight plan rejection statistics

2019	AFTN ADRESSES- RECEIVED FROM LA AURORA CONTROL			
MONTH	MGGTZPZX	PERCENTAGES	MGGTZQZX	PERCENTAGES
OCTOBER	1885	31.6%	48	36.4%
NOVEMBER	1979	33.1%	44	33.3%
DECEMBER	2108	35.3%	40	30.3%
TOTAL	5972	100%	132	100%
TOTAL MESSAGES	6104			

2019	AFTN ADRESSES- FPL REJECTED FROM LA AURORA CONTROL	
Error Code Description	MGGTZPZX	MGGTZQZX
INCONSISTENT ITEM 10 AND 18 PBN/	3	0
INCONSISTENT ITEM 10 AND 18 R WITH NO PBN/	1	0
INVALID AIRCRAFT NUMBER	1	0
INVALID AIRCRAFT TYPE	1	0
INVALID AIRCRAFT TYPE IN TYP/ ELEMENT	2	0
INVALID ELEMENT ON STS/	1	0
INVALID SEL/ REPEATED LETTERS	1	0
NON RVSM STATUS	4	4
DUPLICATE FPL STORED	0	83
TOTAL	14	87
REJECTION PERCENTAGE	0.23%	65.91%



Sandino Approach

Flight plan rejection statistics

2019	AFTN ADRESS - FPL RECEIVED FROM NICARAGUA			
MONTH	MNMGZPZX	PERCENTAGES	MNMGZTZX	PERCENTAGES
OCTOBER	705	33%	11	55%
NOVEMBER	690	33%	6	30%
DECEMBER	727	34%	3	15%
TOTAL	2122	100%	20	100%
TOTAL MESSAGES	2142			

2019	REJECTED FLIGHT PLANS NICARAGUA OCT-DIC 2019	
Error Code Description	MNMGZPZX	MNMGZTZX
ALTN/ INFORMATION NOT FOUND FOR	6	0
DEST/ INFORMATION NOT FOUND FOR	1	0
INCONSISTENT ITEM 10 AND 18 PBN/	3	0
INCONSISTENT ITEM 10 AND 18 R WITH NO PBN/	1	0
INCONSISTENT ITEM 10 AND 18 Z WITH NO DAT/ OR COM/ OR NAV/	5	0
INCONSISTENT PBN/ VALUE	3	0
INVALID SEL/ FIRST PAIR OF LETTERS NOT IN ALPHABETICAL ORDER	1	0
INVALID SEL/ REPEATED LETTERS	1	0
DUPLICATE FPL STORED	0	16
TOTAL	21	16
REJECTION PERCENTAGE	0.99%	80%



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Any Questions?



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¡THANK YOU!