Progress of the Task Force ADS-B ANIWG

ADS-B/Implementation Meeting

México City

Apr 27- 29 2015

Background

- During the first meeting ANI / WG, was agreed to activate a Task Force for the Implementation of ADS- B is formed so as to streamline implementation activities related to air navigation . This Task Force will support the ADS -B and implementation activities as well as updating and report its progress to the ANI / WG based on the action plan for these tasks.

The Task Group is responsible for:

- a) Group Working Programmed
  b) Provide advice and guidance to States wishing to start operational testing ADS- B
  c) Guide states that have conducted trials to project its operational implementation
  d) Recommend goals for implementing ADS-B based on the needs of navigation service providers (ANSPs) and users
  e) periodically request information from States on statistics as a result of his trials

Members of ADS-B TF

Members	E-mail
Kendrick Henderson Mason, Barbados	kendrick.mason@barbados.gov.bb
Suzanne Grifith	suzanne.grifith@barbados.gov.bb
Jeff Crochane, Canadá	cochraj@navcanada.ca;
Carlos M. Jiménez Guerra (Rapporteur), Cuba	carlosm.jimenez@iacc.avianet.cu
Fernando Naranjo Elizondo, Costa Rica	fer_nar_eli@hotmail.com
Julio Mejia, Republica Dominicana	jmejia@idac.gov.do
Doug Arbuckle, United States	doug.arbuckle@faa.gov
Bill Blake, United States	bill.a.blake@faa.gov
Emmanuel Joseph Jacques, Haití	emmanueljacques@gmail.com
Yves-Andre Cesar, Haití	yacesar@hotmail.com
Derrick Grant, Jamaica	derrick.grant@jcaa.gov.jm
Howard Greaves, Jamaica	howard.greaves@jcaa.gov.jm
Orville Shaw, Jamaica	orville.shaw@jcaa.gov.jm villanova4@hotmail.co
Daniel Sánchez, México	sanchezgdaniel@yahoo.com
José Gil J., Mexico	jigiljim@sct.gob.mx
José de Jesús Jiménez Medina, México	sasin_mx@yahoo.com disda@sct.gob.mx
Warren Quirós Castillo Gestor Comunicaciones, Navegación y Vigilancia de Costa Rica	navegacionaerea.cns@dgac.go.cr
Uwe Cano, Nicaragua	uwenava90@hotmail.com
Alexis Brathwaite, Trinidad y Tobago	alexis.brathwaite@gmail.com abrathwaite@caa.gov.tt
Kent Ramnarace-Singh, Trinidad and Tobago	krsingh@caa.gov.tt
Wilmer J. Flores Zeitun, COCESNA	wilmer.flores@cocesna.org
Javier Alejandro Vanegas, CANSO	javier.vanegas@canso.org
Marco Vidal, IATA	vidalm@iata.org

Working program

TASK NAME	DELIVERABLE	DATE START	DATE END	PERCENTAGE COMPLETED	RESPONSIBLE
Activities ADS- B TF		1/8/13	31/12/18		
1.0 Formation of ADS-B TF	Participant List	1/8/13	1/8/13	100 %	Group Members
2. Terms and references	present Terms of Reference of the Working Group	1/8/13	1/8/13	100 %	Cuba (Rapporteur)
3. Develop Work Plan	Work Plan	2/8/13	14/8/13	100%	Cuba (Rapporteur)
3.1 Provide to OACI the Work Plan		14/8/13	14/8/13	100%	Cuba (Rapporteur)
4.0 Approve Work Plan TF ADS- B in Block 0		24/01/14	24/01/13	100%	Group Members
5.0 Begin implementation of the Work Plan		31/10/13	31/12/18	100%	Group Members
5.1 Develop ADS- B survey	Survey on the state of the ADS –B	23/01/14	14/02/14	100%	COCESNA

Working program

5.1.1 Send ICAO survey for distribution to the states of the region		18/02/14	18/02/14	100%	COCESNA
5.1.2 Collect survey results	Current situation of ADS- B in the states	18/02/14	30/4/14	20%	ICAO NACC
5.2 Surveying information on the implementation of ADS –B aircraft	survey on the status of ADS –B aircraft	23/01/14	30/4/14	100%	IATA
5.2.1 Information on implementation of ADS –B aircraft	ICAO Current Status of ADS- B aircraft (Recommendation of target dates for the ADS –B)	30/04/14	30/04/14	¿?	IATA
6.0 Implementation of ADS- B trials	Recommendations / testing improvements towards operational implementation	30/10/13	29/5/15	¿?	Group Members
6.1 ADS –B trials are underway	List of states that are making (Progress)	30/10/13	29/5/15	¿?	United States, Cuba, México, Canadá, COCESNA, T and T
6.2 Send to the members of the task group the Guide for testing	Guide for testing	13/02/14	13/02/14	100%	Relator

Working program

6.3 Begin to ADS- B trials in states that do not yet list of states that implemented and date (Progress)	Support for those who wish to trials	30/10/14	29/5/15	¿?	States / Territories in the region that have not yet done
6.4 Sending quarterly reporting ICAO deficiencies in trials	Test results	30/10/13	29/5/15	¿?	Cuba, México, Jamaica, Trinidad & Tobago y COCESNA
6.5 Deliver results of comparisons of statistics of ADS-B	results of comparisons of statistics of ADS-B	23/05/14	29/05/15	¿?	Cuba, México, Jamaica, Trinidad & Tobago y COCESNA
7.0 Follow-up meeting to the development of ADS- B	Final Report	19/05/14	23/05/14	100%	ICAO NACC
8.0 Develop relevant operational requirements for the ADS-B implementation		15/11/13	30/04/14	70%	ADS-B TF Members
8.1 Creation of ad hoc group for the formation of the proposal	AdHoc Group Op	23/05/14	23/05/14	100%	Create a group AdHoc

Working program

8.2 Deliver the regional operational concept for the implementation ADS-B	regional operational concept	23/05/14	30/10/14	70%	AdHoc Group
9.0 develop technical requirements to purchase equipment for ADS-B trials	technical requirements	23/05/14	23/06/14	70%	AdHoc Gruop
9.1 Deliver technical requirements for ADS-B equipment	Technical requirements for ADS-B	30/06/14	30/06/14	70%	AdHoc Gruop
10. Assist the process of implementation ADS-B operational	Letters of agreement between States regional and Metrics	29/5/15	31/12/18		ADS-B TF
11. Follow-ups process of implementation ADS-B operational	ANRF´s	29/5/15	31/12/18		ADS-B TF

Regional Performance Objetives (RPO)

No.	Task description	Start End	Responsible	State
1.	Identify and implement additional ATM surveillance systems to improve the accuracy and coverage of information of the traffic situation (ADS-B, MLAT, etc.) and associated procedures.	2014- 2018	States, Territories, Org. Intls.	Valid
2.	Use of A-SMGC in specific aerodromes, as required	2014 - 2018	States, Territories, Org. Intls.	Valid
3.	Training in the application and implementation of automated monitoring and automation systems technologies ATS	2014 - 2018	States, Territories, Org. Intls.	Valid
4.	Strengthening training infrastructure in the region and training programs related to monitoring systems and automation	2014 - 2018	States, Territories, Org. Intls.	Valid
5.	Implementation and Control System Advanced Surface Movement Guide (A-SMGCS) according to your needs	2014- 2018	States, Territories, Org. Intls.	Valid

Work program related modules ASBU

TASK NAME	DELIVERABLE	START DATE	END DATE	PERCENTAGE COMPLETED	RESP
ADS-B activities related TF ASBU		Mar 2014	Dec 2018		
8.0 Tasks module BO-ASUR Block 0					
8.1 Controlling the performance of tests with ADS-B		Jan 2014	May 2015		
8.2 Collect information quarterly test results and send a report to ICAO	Quarterly Statistics	Quarterly	May 2015		
8.3 Approve the regional CONOPS for the implementation of ADS-B.	CONOPS	Apr 2015	Apr 2015		
8.4 Ensuring sending and receiving data from all ADS-B sensors to the ACC	Checking data	Jun 2015	Dec 2018		
8.5 Ensuring automated processing systems for representing the ADS-B data in the Air Traffic Control	Automation System				
8.6 Ensure training of drivers in the use of ADS-B data for radar control	Capacitation Task				
8.7 Implement operational ADS-B in regional ATM					

Work program related modules ASBU

TASK NAME	DELIVERABLE	START DATE	END DATE	PERCENT COMPLET	RESP
8.7 Implement operational ADS-B in regional ATM					
9.0 Tasks of the B0-SURF Module Block 0					
9.1 Perform the preparatory work for the realization of proof MLAT	IMPLEMENTATION PROJECT				
9.2 Control the execution of tests multilateration in the region.					
9.3 Develop testing MLAT					
9.4 To evaluate the results of the test on multilateration.					
9.5 Receive quarterly reports MLAT test and send the workgroup ADS-B regional	Report of results				
9.6 Implement cost-benefit operationally by the desirability of implementing the MLAT study at selected airports.	COST-BENEFIT ANALYSIS				
9.7 Select airports where implementing MLAT					
9.8 Develop operational requirements for the implementation of MLAT	CONOPS				
9.9 Controlling system implementation in selected airports					

Activities developed by the ADS-B TF

• COCESNA is conducting trials with ADS-B in the Flight Information Region (FIR) with an ADS-B receiver Indra to collect data.

• Cuba continues to collect information ADS-B data in their trials and since December last year began testing a MLAT system in Varadero.

• Mexico is executing the installation of 10 stations and ADS-B system improvements Air Traffic Control (ATC) to incorporate ADS-B data processing in conjunction with the radar data.

Activities developed by the ADS-B TF

- Jamaica is using a receptor ADS - B, but the data is not being stored.

- Trinidad and Tobago reported having a receptor ADS - B, which is being used with the new CTA system.

- The ADS-B TF held a conference in January.

- United States and Canada continue the deployment of ADS-B as well as the operational implementation in certain areas that require and allow

Activities to develop the ADS-B TF

- Continue gathering information on the implementation of ADS-B on board aircraft operating in the region NAMCAR from IATA and the states of the region.

- Complete the CONOPS for regional implementation of ADS-B.

- Conclude the proposed ADS-B receiver equipment to support member states.

- Determine the actions to take under ASBU modules related to the ADS-B.

- Review and update the working plan of the group.

THANK YOU