



ICAO

International Civil Aviation Organization
North American, Central American and Caribbean Office

Automatic Dependent Surveillance – Broadcast OUT Technical On-Line Workshop for the NAM/CAR/SAM Regions (ADS-B/OUT/W) 26 to 29 January 2021

Summary of Discussions

Date	26 to 29 January 2021
Location	Online Workshop
Opening Ceremony	The workshop was attended by 250 participants from 24 NAM/CAR States and from 10 SAM States. Other participants connected from Europe and Africa (see Appendix A).

Opening remarks were provided by:

Mr. Julio Cesar Siu, Deputy Regional Director of the International Civil Aviation Organization (ICAO), North American, Central American and Caribbean Regional Office and Mr. Nicholas Reyes, Director, Western Hemisphere, Office of International Affairs, Federal Aviation Administration (FAA) of United States

1. References

- 1.1 According with invitation letter ref. NT-N1-8.3.13 E.OSG-NACC84435, NAM/CAR and SAM States were invited to participate in the Automatic Dependent Surveillance – Broadcast OUT Technical On-Line Workshop, held in coordination with the FAA.
- 1.2 The ICAO SAM Office extended the invitation among the States of such region.
- 1.3 The Workshop had four different session:
 - 1.3.1 First session: Detailed Overview of ADS-B OUT Avionics Systems.
 - 1.3.2 Second session: Detailed Overview of Ground ADS-B Automation Systems
 - 1.3.3 Third Session: Detailed Overview of Surveillance Chain Integration and Satellite ADS-B.
 - 1.3.4 Final Session: Future ADS-B Applications and workshop final test.

2. Workshop Information

- 2.1 The workshop was focused on the technical aspects of ADS-B, evaluation and implementation features, surveillance and communications protocols, as well as information quality assessment.
- 2.2 In addition to the technical aspects of ADS-B technology on the ground, the technical aspects of the use of satellite ADS-B were covered.

- 2.3 Participants had the opportunity to hear the Chief of the ICAO Surveillance Panel, Mr. Doug Arbuckle, who presented information about the Future Application of ADS-B; information that must be used to improve current and future surveillance services.
- 2.4 Finally all participants answered a test to assess their understanding of the concepts provided during the different workshop sessions.

3. Workshop Schedule and Activities

- 3.1 This information can be reviewed in the workshop's webpage:
<https://www.icao.int/NACC/Pages/meetings-2021-adsb.aspx>

4. Future Activities

- 4.1 The ADS-B Workshop was the first event of the ICAO Surveillance Programme in 2021.
- 4.2 The ICAO NACC Regional Office hopes that the different surveillance activities support States in their maintenance, implementation and other surveillance activities and improve safety.
- 4.3 In that sense, the following activities are planned in cooperation with the industry:

THALES: ADS-B & WAM/MLAT Technologies: February 10, 2021
INDRA: Surveillance Technologies: February 17, 2021

Related information can be found in **Appendix B**.

5. Recommendations

- 5.1 Identify enhancement opportunities in the installation, implementation and maintenance activities, and related ADS-B surveillance procedures.
- 5.2 Usage of technical information as a base to formulate the development of future projects that involve ADS-B data.
- 5.3 Optimize the performance of the ADS-B systems for a wider usage in future applications that involve ASBU data.
- 5.4 Boost enhancement of ASBU complementation based on ADS-B Out and future ADS-B In.

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APPENDIX A

No	NAM/CAR Regions	SAM Region	Other Regions
1	Anguilla	Argentina	Andorra
2	Antigua and Barbuda	Bolivia	Central African Republic
3	Aruba	Chile	Germany
4	Bahamas	Colombia	Netherlands
5	Barbados	Ecuador	Spain
6	Belize	French Guiana	United Kingdom
7	Cayman Islands	Panama	
8	Costa Rica	Paraguay	
9	Curaçao	Peru	
10	Dominican Republic	Uruguay	
11	El Salvador		
12	Grenada		
13	Guatemala		
14	Haiti		
15	Honduras		
16	Jamaica		
17	Mexico		
18	Nicaragua		
19	Saint Lucia		
20	Saint Vincent and the Grenadines		
21	Sint Maarten		
22	Trinidad and Tobago		
23	Turks and Caicos Islands		
24	United States		

ADS-B & WAM/MLAT Technologies

February 10, 2021

09:00am Mexico Time, 10am Panamá

Register in advance for this meeting:

<https://icao.zoom.us/meeting/register/tJwtdOqoqTgpG9VA1FlwV8wsR1vZ8VoRHqO>

THALES

SURVEILLANCE TECHNOLOGIES

February 17, 2021

09:00am Mexico Time, 10am Panamá

Register in advance for this meeting:

https://icao.zoom.us/meeting/register/tJYpduuogjguE9FKQHqsLkr8yc2_RjIJk2sQ

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