



ICAO

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

WORKING PAPER

ADS-B/OUT/M — WP/10
14/08/19

**Automatic Dependent Surveillance – Broadcast OUT Implementation Meeting for the
NAM/CAR Regions (ADS-B/OUT/M)
Ottawa, Canada, 21-23 August 2019**

**Agenda Item 3: Surveillance Coverage (100%) for PBN Implementation
3.3 Discuss new requirements**

AUTOMATIC DEPENDENT SURVEILLANCE – BROADCAST (ADS-B) OUT SURVEY

(Presented by IATA)

EXECUTIVE SUMMARY	
This Working Paper provides an overview on the fleets equipped with Mode S extended squitter transponders in the region.	
Action:	Suggested action is presented in Section 4.
Strategic Objectives:	<ul style="list-style-type: none">• Safety• Air Navigation Capacity and Efficiency• Economic Development of Air Transport
References:	<ul style="list-style-type: none">• IATA Americas surveillance survey 2018

1. Introduction

1.1 The following information is provided for the States and ICAO NACC Regional Office to be considered in the planning phase for the operational implementation of the ADS-B OUT, in addition to the information provided during the last ANI/WG/5.

2 Best practices

2.1 A comprehensive cost benefit analysis is highly recommended in order to avoid an expensive restrictive airspace requiring avionics upgrades, with non or low key performance indicator (KPI) improvements in any of the 11 ICAO Key Performance Area – KPAs¹.

¹ KPAs: safety, security, environmental impact, cost effectiveness, capacity, flight efficiency, flexibility, predictability, access and equity, participation and collaboration, interoperability

3 Avionics survey

3.1 This information is an extract from the 2018 IATA Americas avionics survey and doesn't include all the actual flights, but it captures 3,375 airframes used across the flight information regions (FIRs).

3.2 For IATA to include other local carriers, general aviation or States aircrafts, we provide the following link for each of the States to forward to their internal operators.

https://docs.google.com/forms/d/e/1FAIpQLSdqIUdhD8rfufXrDplv_5T8wt-ryGmW798HhCTIxTUZ-Y9AWA/viewform

3.3 We are already working on a survey update for Q4 2019, so any additional information you could contribute to add will enhance the global overview of the avionics in the region.

3.4 The **Appendix** to this Working Paper provides a resume of the ADS-B OUR situation compared to other technology for the regional analysis proposed during the presentation of this Working Paper.

4. Suggested Actions

4.1 The Meeting is invited to:

- a) review the information provided to be considered for planning purposes for the appropriate NACC regional implementation group.

APPENDIX

	Central America	Curacao	Havana	Kingston	Mazatlan Oceanic	Mexico	Nassau	Piarco	Port Au Prince	Santo Domingo	AVR
ADS-B OUT DO-260B	39%	64%	57%	35%	56%	34%	36%	44%	48%	39%	45%
ADS-B OUT DO-260A	29%	34%	30%	23%	64%	24%	24%	14%	34%	27%	30%
ADS-B OUT DO-260	69%	98%	82%	60%	100%	58%	67%	88%	85%	75%	78%
Mode S EHS	38%	39%	53%	43%	38%	44%	31%	30%	47%	34%	40%
Mode S ELS	35%	34%	46%	40%	36%	39%	34%	24%	51%	37%	38%
Mode S	90%	65%	79%	84%	69%	88%	81%	60%	77%	84%	78%

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