



# ICAO

## INTERNATIONAL CIVIL AVIATION ORGANIZATION

### WESTERN AND CENTRAL AFRICA OFFICE

#### Twenty-fourth Meeting on the improvement of Air Traffic Services over the South Atlantic (SAT/24)

Luanda, Angola, 5-7 June 2019

#### Agenda Item 4: *Communications, Navigation and Surveillance (CNS)*

#### 4.3 Improvement of the CNS systems in the SAT Region (AMHS, AIDC, ADS-C&B)

(Presented by ASECNA)

#### SUMMARY

This information paper presents ASECNA ADS-B space based program implementation with AIREON

**Action required:** *See paragraph 3*

#### 1. Introduction

- 1.1 ASECNA and AIREON LLC have signed a service agreement to provide space-based ADS-B surveillance data service using ADS-B receivers installed on Iridium NEXT' satellites constellation.
- 1.2 ASECNA desires to use ADS-B surveillance data from AIREON in connection with its Air Traffic Control services.
- 1.3 ASECNA plans to use the space-based ADS-B services to improve the safety, operations and efficiency for airspace users.

#### 2 Discussion

- 2.1 The main steps of the road map for ADS-B space-based implementation are:

##### ➤ 2018

- Conclusion of the negotiation with AIREON;
- Reception of data via Internet -VPN in ASECNA Headquarter;
- Monitoring of data in ASECNA ATC test platform;

➤ **2019**

- Dispatch of data via AFISNET for Trial process to validate some SLA (Service Level Agreement) before the operational deployment;
- Finalization of telco line (MPLS) to duplicate reception of data to the SDP (Service Delivery Point) at Abidjan;
- Finalize all certifications process;
- Safety assessment;
- Decision making for terrestrial.

➤ **2020**

- Beginning of use of ADS-B space-based data in parallel with other means of surveillance;
- Continue monitoring of data;

2.2 The main SDP to dispatch the data via AFISNET infrastructure in operational phase will be installed at Abidjan;

2.3 A backup infrastructure using encrypted VPN link from Dakar to dispatch also the data via AFISNET Infrastructure is already done.

### **3. Action Required**

The meeting is invited to take note of the information provided and related to ADS-B space-based implementation in ASECNA airspaces.