

**Eighteenth Meeting of the Cross Polar Trans East Air Traffic Management Providers' Work Group  
(CPWG/18)**

(Paris, France, 16-19 December 2014)

**Agenda Item 8:** Communications, Navigation, Surveillance (CNS) and Air Traffic Management (ATM) issues

**ADS-B IMPLEMENTATION WITHIN REYKJAVIK CTA**

(Presented by Isavia)

**SUMMARY**

This working paper presents information on ADS-B implementation within Reykjavik CTA.

**1. Introduction**

1.1 Isavia is working on implementing ADS-B surveillance service in specified parts of Reykjavik CTA. The implementation has already started and is expected to end in a fully implemented radar-like ADS-B service in late 2015.

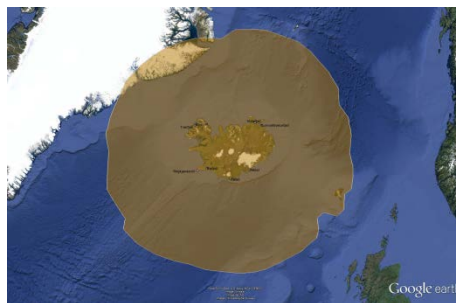
1.2 An Aeronautical Information Circular (AIC) that Iceland published on 22 August 2014 concerning the Automatic Dependent Surveillance Broadcast (ADS-B) implementation in the Reykjavik Control Area (CTA) is also introduced.

**2. Discussion**

2.1 ADS-B ground stations have been installed and validated in Iceland, Faroe Islands and Greenland.

2.2 A new surveillance tracker for fused radar and ADS-B tracking was implemented June 2014.

2.3 November 6th 2014, Isavia implemented ADS-B service over Iceland using 8 ground stations.



ADS-B IS coverage

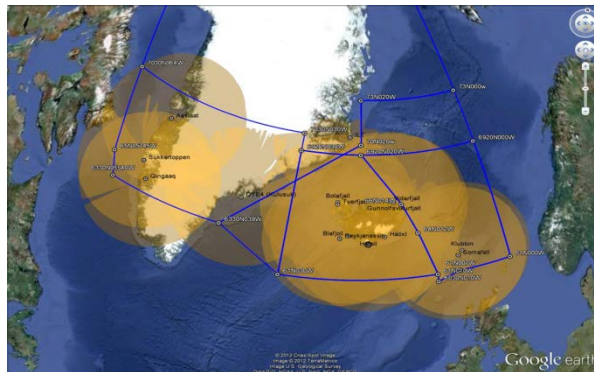
2.4 Isavia is waiting for technical approval from Danish Transport Authority for ADS-B implementation in Faroe Islands, using 4 ADS-B ground stations.



ADS-B FAE coverage

2.5 Isavia is waiting for technical approval from Danish Transport Authority for ADS-B implementation in Greenland, using 10 ADS-B ground stations in 5 locations.

2.6 Isavia is waiting for technical approval from Danish Transport Authority for using one VHF frequency that has been installed in Greenland, using transceivers from 5 locations. 3 additional VHF frequencies in same locations will be installed 2015.



ADS-B and VHF direct controller communication coverage, when fully implemented

### 3. Action by the Meeting

3.1 The meeting is invited to:

- a. review the information contained in this Working Paper;
- b. endorse the information provided in this Working paper.