



ICAO

International Civil Aviation Organization

**THE FOURTH MEETING OF MODE S DOWNLINKED
AIRCRAFT PARAMETERS WORKING GROUP
(MODE S DAPs WG/4)**

Video Teleconference, 29 – 31 March 2021

Agenda Item 3: Sharing of State's implementation on Mode S and related issues, including the experience in Mode S Interrogator Identifier (II) Code usage in APAC region

INTERREGIONAL II CODE COORDINATION

(Presented by the Secretariat)

SUMMARY

This paper presents information about Mode S Interrogator Identifier (II) codes inter-regional coordination in ICAO APAC Office.

1. INTRODUCTION

1.1 ICAO APAC received a coordination request from EUROCONTROL for IC code coordination on 30 November 2020. With the joint effort between EUROCONTROL, ICAO APAC Office and concerned States, the coordination was made and recorded.

2. DISCUSSION

2.1 ICAO Doc 9924, Aeronautical Surveillance Manual (Third Edition, 2020), provides global guidance in surveillance implementation.

2.2 Section 4. Operation of Adjacent Mode S Ground Stations of Appendix J, Mode S Implementation, is good reference on coordination.

2.3 Relevant information from section 4.2.4 is showed as below:

4.2.4.3 At the regional level, coordination should be enacted through ICAO Regional Offices. The ICAO regional coordination procedures, specific tools and mechanisms can vary depending on regional needs and limitations.

Note. - These specific mechanisms and procedures are described in the regional air navigation plans and other regional documents.

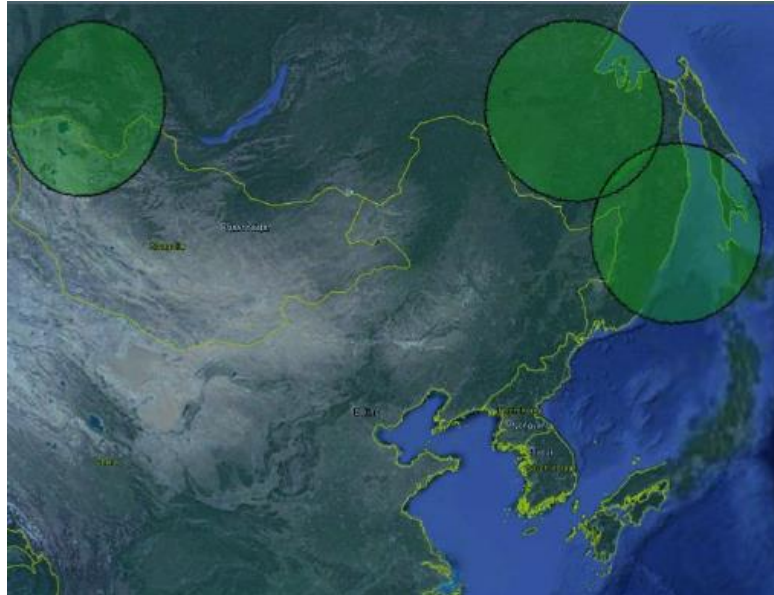
4.2.4.4 At the interregional level, coordination should be also undertaken through the ICAO Regional Offices, whenever the coverage overlap occurs between SSR Mode S interrogators located in different Regions. In order to accommodate the regional differences, bilateral coordination procedures should be agreed between the ICAO Regional Offices involved, while documenting, inter alia, actions with timelines and information required for coordination.

Agenda Item 4

29-31/03/21

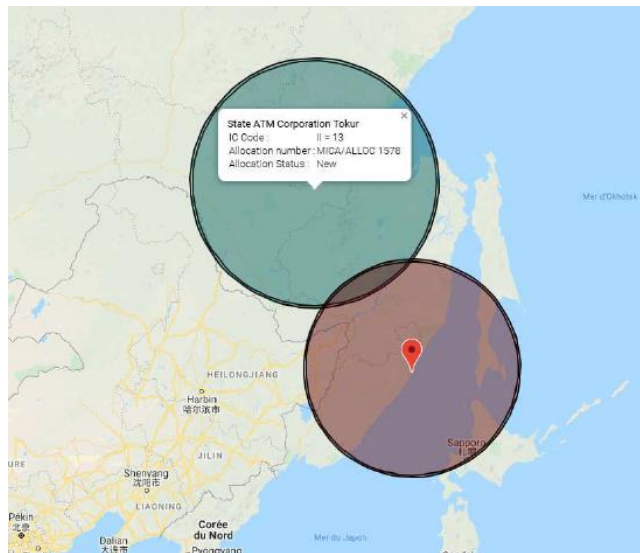
4.2.4.5 The information required for interregional coordination should include the Mode S interrogator position, range, allocated interrogator code and allocated coverage.

2.4 As the surveillance facility related information is considered as sensitive by some member States, the coordination request received by ICAO APAC Office is presented mainly in Pic 1 as below:



Pic 1

2.5 With the support of concerned parties, the coordination was done based on available data plus map estimation. The outcome is as of Pic 2.



Pic 2

2.6 However, due to the incompleteness of ICAO APAC regional SSR II code list, the Regional Office is very difficult to act as the effective and efficient focal point in the interregional coordination process.

3. ACTION REQUIRED BY THE MEETING

3.1 The meeting is invited to:

- a) Note the information contained in this papers; and
- b) discuss any relevant matters as appropriate.
