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Email: caas_singaporeais@caas.gov.sgURL: www.caas.gov.sgURL: <https://aim-sg.caas.gov.sg>**AIC for Singapore****AIC****03/2020****Effective from 22 APR 2021****PERM****Published on 09 NOV 2020****AUTOMATIC DEPENDENT SURVEILLANCE BROADCAST (ADS-B) OUT EXCLUSIVE AIRSPACE IMPLEMENTATION PLAN WITHIN SINGAPORE FIR****1 INTRODUCTION**

1.1 This AIC serves to notify airspace users of CAAS's implementation plan to extend Automatic Dependent Surveillance Broadcast (ADS-B) Out Exclusive Airspace within the Singapore FIR from 22 April 2021.

1.2 There will be no change in the existing ADS-B Out Exclusive Airspace as published in AIP Singapore, ENR 1.8, paragraph 7.

2 IMPLEMENTATION PLAN**2.1 Phase 1**

Effective from 22 April 2021, ADS-B ATS surveillance will be utilised for monitoring and to provide situational awareness in the provision of air traffic services within the Singapore FIR from FL290 and above.

2.2 Phase 2a

Effective from 27 January 2022, ADS-B Out Exclusive Airspace will be implemented from FL290 and above on ATS routes L517, L625, L649, M758, M767, M768, M772 and N884, within airspace bounded by 073605N 1090045E, 103000N 1140000E, 082500N 1163000E, 032833N 1100532E, 031802N 1093725E, 025514N 1074108E, 033341N 1065534E, 040713N 1063543E and 073605N 1090045E.

2.3 Phase 2b

Effective from 26 January 2023, ADS-B Out Exclusive Airspace will be extended to include the rest of Singapore FIR from FL290 and above for all ATS routes except R208, M522, M754 and M765.

3 AIRCRAFT EQUIPAGE FOR ADS-B OUT

3.1 Aircraft must carry serviceable ADS-B transmitting equipment that has been certified as meeting:

- a. European Aviation Safety Agency - Certification Considerations for the Enhanced ATS in Non-Radar Areas using ADS-B Surveillance (ADS-B-NRA) Application via 1090MHz Extended Squitter (AMC 20-24), or
- b. European Aviation Safety Agency (EASA) CS-ACNS (Subpart D - Surveillance - SUR), or
- c. Federal Aviation Administration - Advisory Circular No: 20-165A (or later versions) Airworthiness Approval of Automatic Dependent Surveillance - Broadcast (ADS-B) Out Systems, or
- d. The equipment configuration standards in Appendix XI of Civil Aviation Order 20.18 of the Civil Aviation Safety Authority of Australia.

3.2 After the implementation of ADS-B Out Exclusive Airspace as stated in paragraphs 2.2 and 2.3, aircraft that does not comply with the requirements stipulated in paragraph 3.1 will not be accorded priority in the delineated airspace and flight level assignments would be subjected to air traffic conditions.

4 CONSULTATION

4.1 Please email jermaine_hoh@caas.gov.sg if you have any queries regarding this matter.