

Contact

Post: REPUBLIC OF SINGAPORE
AERONAUTICAL INFORMATION SERVICES
Civil Aviation Authority of Singapore
60 Airport Boulevard,
Changi Airport Terminal 2, #04-01
Singapore 819643

Tel: (65) 6955 0400
Fax: (65) 6441 0221
AFS: WSSSYNYX
Email: caas_singaporeais@caas.gov.sg
URL: <https://www.caas.gov.sg>
URL: <https://aim-sg.caas.gov.sg>

**AIP Supplement for
Singapore****AIRAC AIP SUP
159/2025**

**Effective from
27 NOV 2025**

**to
PERM**

**Published on
16 OCT 2025**

**IMPLEMENTATION OF AUTOMATIC DEPENDENT SURVEILLANCE BROADCAST (ADS-B)
OUT EXCLUSIVE AIRSPACE IN THE SINGAPORE FIR****1 INTRODUCTION**

1.1 On 9 November 2020, CAAS published AIC 03/2020 to notify aircraft operators of CAAS' phased implementation plan to extend ADS-B Out Exclusive Airspace to the rest of the Singapore FIR. Phase 1 of the plan was effective from 22 April 2021, whereby ADS-B ATS surveillance is utilised for monitoring and to provide situational awareness in the provision of air traffic services within the Singapore FIR from FL290 and above.

1.2 The purpose of this AIP Supplement is to notify airspace users of the implementation of ADS-B Out Exclusive Airspace in the Singapore FIR effective **27 November 2025, 0000UTC**.

2 ADS-B BASED SURVEILLANCE AIRSPACE AND AIRCRAFT OPERATOR APPROVAL

2.1 With effect from **27 November 2025, 0000UTC**, aircraft that operate within Singapore FIR at or above FL290, must comply with the following:

- a) Aircraft must carry serviceable ADS-B transmitting equipment that has been certified as meeting:
 - i) 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
 - ii) European Aviation Safety Agency (EASA) CS-ACNS (Subpart D - Surveillance - SUR), or
 - iii) Federal Aviation Administration - Advisory Circular No: 20-165A (or later versions) Airworthiness Approval of Automatic Dependent Surveillance - Broadcast (ADS-B) Out Systems, or
 - iv) an 'approved ADS-B OUT equipment configuration' as specified in Part 91 (General Operating and Flight Rules) Manual of Standards 2020, issued by the Civil Aviation Safety Authority of Australia.
- b) Aircraft operators must have the relevant operational approval from the State of Registry.

2.2 Aircraft that do not comply with the requirements stipulated in paragraph 2.1 may not be accorded priority in the delineated airspace and flight level assignments would be subject to air traffic conditions.

2.3 If an aircraft carries ADS-B transmitting equipment but does not comply with the requirements stipulated in paragraph 2.1, the aircraft must not fly in the delineated airspace unless the equipment is:

- a) deactivated; or
- b) set to transmit only a value of zero for the Navigation Uncertainty Category - Position (NUC-P) or Navigation Integrity Category (NIC).

3 ATS SURVEILLANCE PROCEDURES WITH ADS-B

3.1 Aircraft will be identified by ATC before providing ATS surveillance services using one of the following methods:

- a) Direct recognition of the aircraft identification in an ADS-B label displayed to ATC on their air situation display system;
- b) Observation of compliance with an instruction to TRANSMIT ADS-B IDENT.

3.2 The pilot-in-command must inform ATC as soon as possible when aware of an onboard ADS-B equipment failure.

3.3 Aircraft operators complying with the requirements stipulated in paragraph 2.1 are to indicate the appropriate ADS-B designator in Field 10b of the ICAO flight plan:

- a) B1: ADS-B with dedicated 1090 MHz ADS-B Out capability;
- b) B2: ADS-B with dedicated 1090 MHz ADS-B Out and In capabilities.

3.4 Aircraft operators are to include the aircraft address (24-bit Code) in hexadecimal format in Field 18 of the ICAO flight plan.

3.5 Please see AIP Singapore ENR 1.6, section 1.6.3 for further information.

4 CANCELLATION

4.1 Any change to the contents of this AIRAC AIP Supplement will be notified through NOTAM.

4.2 This AIRAC AIP Supplement will be cancelled when the contents are incorporated into AIP Singapore.