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Australian Government
Civil Aviation Safety Authority



RPAS Platform - Test Procedure

RPAS Platform Connected CASA-verified Drone
Safety Apps

April 2026

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Authoritative data tests

[Attachment A - RPAS Platform - Geospatial Map Checks](#)

[Attachment B - RPAS Platform - Flight Authorisation Test Checks](#)

Revision history

Revisions to this procedure are recorded below in order of most recent first.

Version no	Date	Parts / sections	Details
4.0	April 2026	All	Tests converted to worksheet format, Test locations and expected results updated
3.1.3	July 2024	Tests 5.2, 5.4, 5.5, 5.6, 5.11, 5.12, 5.13 and 5.14	Test locations changed
3.1.1	May 2024	Tests 5.7, 5.8, 10	Test locations changed
3.1	April 2024	All	Test locations and expected results updated Test 8 removed New test 12 added
3.0	August 2023	All	Information added on the test process and AltMoC. Declaration steps extracted to separate document (Part 1). Additional tests added and existing test locations updated.
2.5d	February 2023	22.3	Removed test for night authorisations.
2.5b	October 2022	Tests 8.2 to 8.17	Changes to locations and required outcomes.
2.5	August 2022	All	Amended tests numbered for easy referencing, question formatting, descriptions and locations. New tests added for no-fly zones.
2.1	September 2021		Updated emergency services data feeds. Addition of optional airspace authorisations simulation flights.
2.0	October 2020		Addition of airspace authorisations tests.
1.0	November 2019	All	Initial release

Related documents

Document Type	Available at
The rules: <ul style="list-style-type: none">• Civil Aviation Safety Regulations 1998 (CASR) Part 101 – Unmanned aircraft and rockets• Part 101 (Unmanned Aircraft and Rockets) Manual of Standards 2019• CASA 22/22 – Operation of Certain Unmanned Aircraft Directions 2020	https://www.casa.gov.au/rules/regulatory-framework/casr/part-101-casr-unmanned-aircraft-and-rockets
RPAS Platform onboarding documents <ul style="list-style-type: none">• RPAS Platform Concept of Operations• RPAS Platform Operating Rules• RPAS Platform Terms and Conditions	https://www.casa.gov.au/drones/industry-initiatives/digital-platform

Introduction

Purpose

The purpose of this document is to provide a clear and reviewable record of the test activities requiring CASA oversight, as conducted by CASA or through the automated test manager via the RPAS Platform. It serves both as an authoritative reference for CASA of the test steps and as a practical guide for software developers to understand the test requirements.

This document replaces the earlier manual interview format and also continues to support test managers by outlining the structure and steps of the automated process.

Overview

This version of the test procedure aligns with version 4 of the RPAS Platform - Operating Rules. The test activities are conducted based on criteria defined within the operating rules to confirm that software meets all relevant requirements to connect to the RPAS Platform.

This test is required to be completed in the following circumstances:

- **CASA check-out:** During the initial deployment or for the release of a new service (e.g. AAA service).
- **Significant change:** An update or modification that impacts compliance with the Operating Rules that also require an updated declaration of compliance to be completed. Updates to software that do not impact compliance with the Operating Rules are not considered by CASA to be a significant change.
- **On request by CASA:** CASA may request a software provider to provide a completed test run ID as part of a routine check or due to specific concerns or incidents.

The RPAS Platform - Declaration of Compliance must be completed or updated by the software developer and submitted to CASA for review prior to commencing a CASA check-out or after completing a significant change.

CASA may choose to conduct an assessment using this document. However, assessments are typically expected to be conducted via the RPAS Platform automated test manager.

The testing shall occur against `casa-staging.rpasplatform.net`. Each software platform (e.g. Web-based and mobile apps) must go through a separate test process. Production credentials for onboarding developers will be provided only after all software is approved.

This document should also be read in conjunction with the following RPAS Platform documents:

- *RPAS Platform - Operating Rules*
- *RPAS Platform - Declaration of Compliance*

Test process

These software check-out test steps collectively verify the system's capability to accurately retrieve, manipulate, and present data, thereby providing a robust, readily comprehensible and user-friendly tool for the end user.

The tests listed in this document are initiated by specifying a user type (Recreational, Excluded or ReOC) and querying the software with specific geographic location (volume circle) or area (volume polygon).

To complete the test process, software developers will need to include the capability to conduct the following types of queries in their software applications using latitude and longitude coordinates:

- **volume circle:** All software applications shall have the functionality to conduct a search based on area consisting of a 1-metre radius from a single-point. The software application should base the return on the applicable operating rules for the defined area.
- **volume polygon:** In addition to single-point searches, software applications must also facilitate searches within a multi-point polygon. The software application should base the return on the applicable operating rules for the defined area.

Both volume circle and volume polygon queries will include an altitude range consisting of a minimum and maximum operating altitude.

The test will also specify a check time range including a date, time and duration. The date can be based on when the test is being conducted, such as 'subsequent noon from test start'.

The result of a test is determined by comparing the expected return with the actual return. Expected returns for geospatial map checks are None, Advise or Block. Expected returns for flight authorisation test checks are accepted or rejected.

Additional text-based fields have been included in the tests to provide context and guidance regarding the test's overall purpose, the selected location, and the scheduled time. This can be used as guidance when designing tests for proposed AltMoC.

Assessing alternate means of compliance (AltMoC)

Where CASA is satisfied with a proposed AltMoC, a separate test step will be conducted in place of the test step(s) in this document to confirming the AltMoC has been implemented and is functional. This assessment is to be conducted by a CASA Officer in accordance with an agreed test plan.

Prefixes

Each operating rule is assigned an identifier enclosed by brackets and comprised of a grouping prefix and a number. For example, [UAA0005] and [HBY0025].

This document uses the following prefixes:

Table 1. Grouping prefixes

Prefix	Description
UAA	User Accounts, Access and Disclaimer
ASD	Airspace Data
AD	Additional Data
HBY	Recreational
CEX	Commercial Excluded Operation
ReOC	Commercial Included Operation
AA	Airspace Authorisations

Test outcome summary

Software, provider and test details

Details			
Software application name		Date and time of check-out	
Software provider		Check-out location	
Software provider representatives		CASA/Test representatives	
Software platform tested on (e.g. iOS)		Tested functions	Authoritative data tests Airspace Authorisations Tests
Notes			

Test State

Test State		
<input type="checkbox"/> Complete	The software application has satisfied the requirements for initial connection or continued connection to the CASA RPAS Platform Production Environment to provide the tested functions.	No further action required.
<input type="checkbox"/> Further testing required	The software application has not yet satisfied the requirements for initial connection or continued connection to the CASA RPAS Platform Production Environment to provide the tested functions.	The items listed on page 9 must be re-tested
<input type="checkbox"/> Not Complete	The software application has not satisfied the requirements for initial connection or continued connection to the CASA RPAS Platform Production Environment to provide the tested functions.	The software must be disconnected from the CASA RPAS Platform Production Environment.

Items for further testing

Signoff

CASA representative signature verifying the test event and documented outcomes – to be completed at the final stage of the assessment.

CASA representative:

Date: