

2.2 Evaluation of the Quality of the Test Plan

The test plan provides good coverage of unit, integration and system-level testing, ensuring both individual components and the whole system are tested and meet requirements. The use of unit tests early on allowed for catching of drone selection and movement issues before these issues propagated into integration tests.

A major strength of the plan is the clear alignment between requirement and testing levels, particularly for the drone movement requirements. Integration tests also allowed failures when retrieving data from the external ILP REST service.

However, some weaknesses remain. Performance testing is limited by the availability and complexity of test data, potentially leaving some heavy or highly complex workloads untested. Additionally, while robustness was tested, not all combinations of invalid inputs could be exhaustively tested.

Overall, the test plan is suitable for validation functionality and robustness but is less suitable for testing the system under extreme and real-world workloads.