

Use Case: Item Delivery

Description: The UAV is tasked with delivering items

Primary Actor: UAV, Drone Commander (DC)

Trigger: Delivery has been scheduled

Main Success Scenario:

1. The UAV performs preflight checks
[rule PR-1: Preflight Data]
2. The UAV has finished its preflight checks and is ready for takeoff
[rule PR-2: Awaiting Takeoff]
2. The UAV takes off from its home location
[rule PR-8: Multi-UAV Synchronized Takeoff]
3. The UAV flies to its first drop-off location
[rule PR-4: Flying to Target Location]
4. The UAV reaches the drop-off location
[rule PR-9: Drop-off Location Reached]
5. The Drone Commander initiates the item drop-off
6. The UAV performs the drop-off
[rule PR-10: drop-off in progress]
7. When the drop-off is finished, the UAV returns for resupply to the base
[rule PR-7: Return to Base]