

Use Case

Use Case Name: Select Winning Flight Bid		ID: UC-2C	Priority: High
Brief Description: This use case describes how the Flight Operations Manager finalizes the selection of winning pilot bid on a flight			
Actor: Flight Operations Manager			
Trigger: A flight bid window has closed			
Type <input type="checkbox"/> External <input type="checkbox"/> Temporal			
Preconditions: <ol style="list-style-type: none">1. Flight Operations Manager is authenticated2. Bidding window on a flight request has closed			
Normal Course 1.0 Select Winning Flight Bid <ol style="list-style-type: none">1. System posts "closed to bid" message on pilot's dashboard2. Flight Operations manager requests list of all bids for the flight3. System displays list of all bids4. For each bid,<ol style="list-style-type: none">a. The flight manager verifies the drone's capability to perform the flightb. Bids based on drone without required equipment are marked "Not Qualified," updated, and removed from bid list5. System sorts and ranks remaining bids based on flight completion time and bid price6. Flight Operations Manager selects bid that optimizes flight completion time and bid price7. System changes status of all unselected flight bids8. System sends notification message to selected bid pilot9. System posts flight details on selected pilot's dashboard10. System notifies all other bidding pilots of the final selection11. System notifies customer that flight has been assigned to a pilot12. System updates Flight Request with flight assignment details.		Information for Steps	

Alternative Course(s):			
Postconditions:			
1. Pilot of selected bid is notified			
2. Selected pilot's dashboard is updated with flight details			
3. Pilots' bids not selected are notified			
4. Flight bid records selection status is updated			
5. Client notified of flight assignment			
6. Flight Request record updated with flight assignment			
Exceptions:			
E1: No bids submitted (occurs at Step 2)			
1. Flight operations manager modifies flight proximity area and/or price guidelines			
2. Flight operations manager performs Use Case 2A to re-post modified Flight Request			
3. If Flight Request has been posted twice with no bids, the Flight Operations manager will contact the client exit use case			
Summary:			
Inputs	Source	Outputs	Source
Flight Bid records	Flight Bid	Bidding window	Pilot dashboards
Pilot drone details	datastore	closed	Flight Bid
Flight Request	Pilot drone	Updated Flight	datastore
details	datastore	Bids	Selected Pilot
Qualified Flight Bid	Flight Request	Bid Award	Selected Pilot
	datastore	Notification	dashboard
	Flight Bid	Awarded Flight	Unselected pilots
	datastore	details	Flight Client
		Unsuccessful bid	Flight Request
		notice	datastore
		Assigned flight	
		notice	
		Assigned Flight	
		Request	