Server (Drone) State Diagram

- OFF
- STANDBY
- WAIT FOR ACK
- WAIT FOR ARM
- ARMED NOT IN FLIGHT
- WAIT FOR CMD

Excessive Timeout (STANDBY → OFF)

Send ACK to client (STANDBY → WAIT FOR ACK)

Timeout (WAIT FOR ACK → STANDBY)

Timeout 2 (WAIT FOR ARM → STANDBY)

Receive ACK from drone (WAIT FOR ACK → WAIT FOR ARM)

Receive ARM() message (WAIT FOR ARM → ARMED NOT IN FLIGHT)

Timeout ARMED (ARMED NOT IN FLIGHT → WAIT FOR ARM)

Receive TAKEOFF(target_altitude) message (ARMED NOT IN FLIGHT → WAIT FOR CMD)

Received LAND() message OR no command (WAIT FOR CMD → ARMED NOT IN FLIGHT)