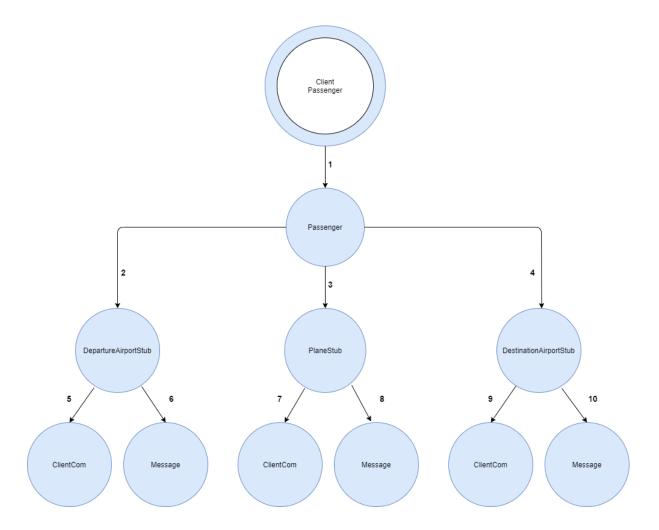
### Sistemas Distribuídos Airlift

version 2

### Interaction diagrams:

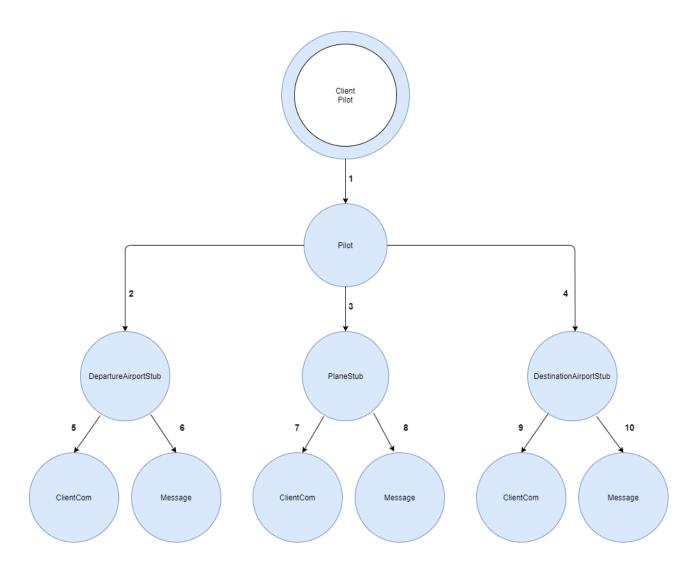
Distributed message passing under the TCP protocol

#### Client Passenger Diagram



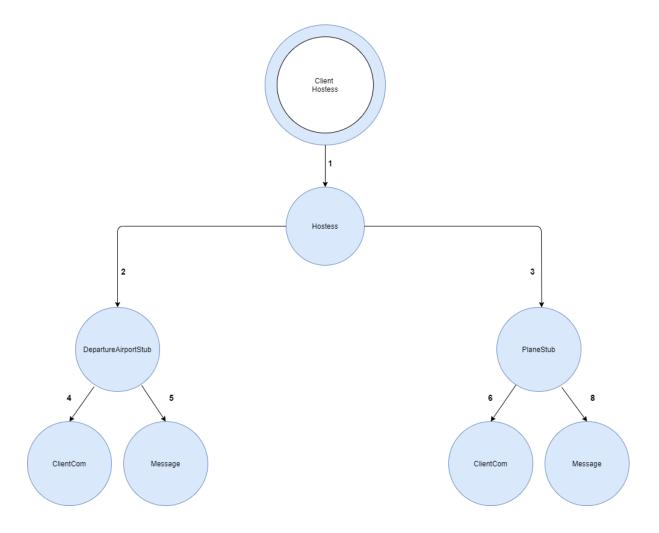
- 1 Instantiate, start, join
- 2 Instantiate, waitInQueue();
- 3 Instantiate, waitForEndOfFlight(); boardThePlane();
- 4 Instantiate, leaveThePlane();
- 5 Instantiate, open(), close(), writeObject(), readObject()
- 6 Instantiate, open(), close(), writeObject(), readObject()
- 7 Instantiate, open(), close(), writeObject(), readObject()
- **8** Instantiate, open(), close(), writeObject(), readObject()
- 9 Instantiate, open(), close(), writeObject(), readObject()
- **10-** Instantiate, open(), close(), writeObject(), readObject()

#### Client Pilot Diagram



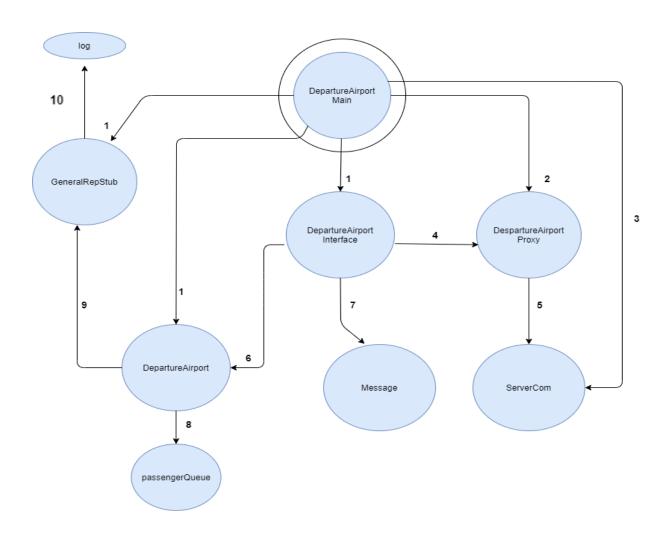
- 1- Instantiate, start, join
- **2-** Instantiate, parkAtTransferGate(); informPlaneReadyForBoarding(); shutdown();
- **3-** Instantiate, waitForAllInBoard(); setAtDestination(); shutdown();
- **4-** Instantiate, announceArrival(nPass); getTotalPassengers();
- **5-** Instantiate, open(); close(); writeObject(); readObject();
- **6-** Instantiate, open(); close(); writeObject(); readObject();
- 7- Instantiate, open(); close(); writeObject(); readObject();
- **8-** Instantiate, open(); close(); writeObject(); readObject();
- 9 -Instantiate, open(); close(); writeObject(); readObject();
- 10-Instantiate, open(); close(); writeObject(); readObject();

#### Client Hostess Diagram



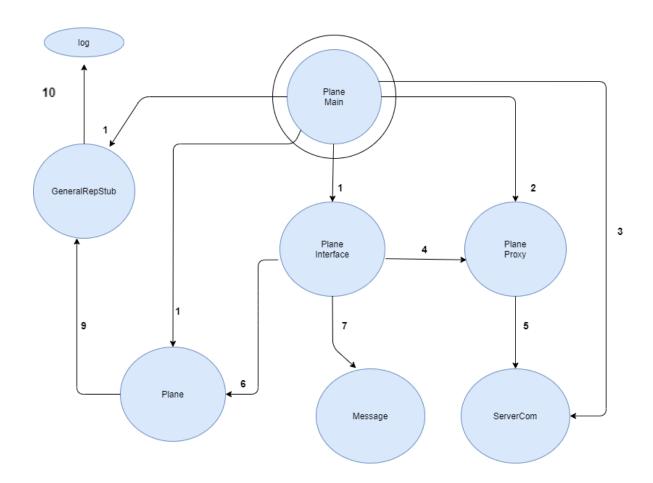
- 1- Instantiate, start, join
- **2-**Instantiate, waitForNextFlight(); getnPassengers(); empty(); waitForNextPassenger(); checkDocuments();
- **3-** Instantiate, informPlaneIsReadyToTakeOff();
- **4-** Instantiate, open(); close(); writeObject(); readObject();
- **5-** Instantiate, open(); close(); writeObject(); readObject();
- **6-** Instantiate, open(); close(); writeObject(); readObject();
- 7- Instantiate, open(); close(); writeObject(); readObject();
- **8** -Instantiate, open(); close(); writeObject(); readObject();

### Server Departure Airport Diagram



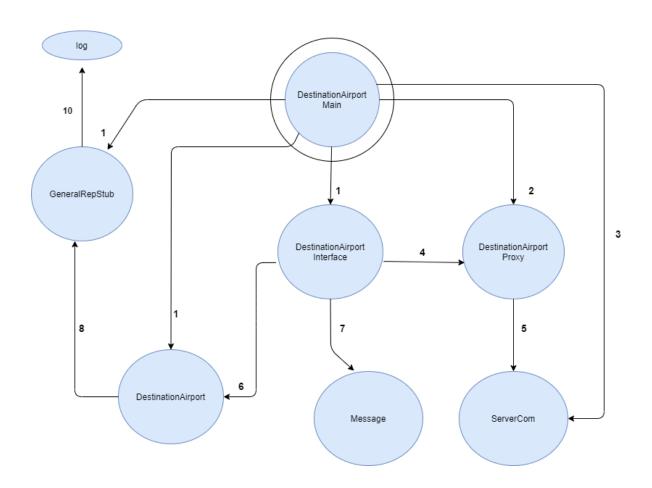
- 1 Instantiate
- 2 Instantiate, start(), end();
- 3 Instantiate, start(); accept(), end();
- 4 getEntityState(); getEntityState; setPassId();
- 5 readObject(); writeObject(); close();
- **6** waitForNextPassenger(); checkDocuments(); waitForNextFlight(); informPlaneReadyForBoarding(); getnPassengers(); parkAtTransferGate(); waitInQueue(); shutdown();
- 7 Instantiate, getType(); setType(); setInt1(); setState(); getState(); getId();
- **8** Instantiate, empty(); write(); read();
- 9 setPassengerState(); writeLog(); setHostessState(); setPilotState();
- 10 Instantiate, println(); flush(), close();

# Server Plane Diagram



- 1 Instantiate
- 2 Instantiate, start(), end();
- **3** Instantiate, start(); accept(), end();
- 4 getEntityState(); setEntityState(); setPassId();
- 5 readObject(); writeObject(); close();
- **6** informPlaneIsReadyToTakeOff(); setAtDestination(); waitForEndOfFlight(); boardThePlane(); waitForAllInBoard(); shutdown();
- 7 Instantiate; getType(); setType(); setInt1(); setState(); getId(); getState(); getInt1(); getBool1();
- 8 Instantiate, empty(), write(), read();
- 9 setPassengerState(); writeLog(); setHostessState(); setPilotState();
- 10 Instantiate, println(); flush(); close();

# Server Destination Airport Diagram



- 1 Instantiate
- 2 Instantiate, start(), end();
- **3** Instantiate, start(); accept(), end();
- 4 getEntityState(); setEntityState(); setPassId();
- 5 readObject(); writeObject(); close();
- **6** leaveThePlane(); announceArrival(); getTotalPassengers();
- 7 Instantiate; getType(); setType(); setInt1(); setState(); getId(); getState(); getInt1();
- 9 setPilotState(), writeLog(), setPassengerState()
- 10 Instantiate, println(); flush(); close();