Interaction Diagrams

Server Side:

ServerAirLiftDepartureAirport Interaction Diagram
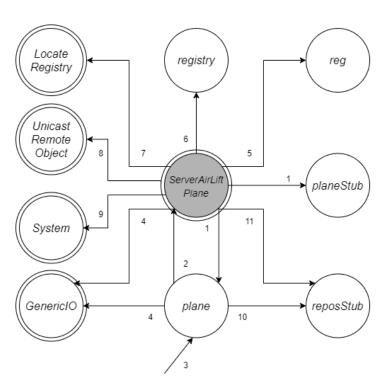

1 - instantiate
2 - shutdown
3 - prepareForPassBoarding, waitInQueue, checkDocuments, showDocuments, waitForNextPassenger, boardThePlane, endOperation, shutdown
4 - writeInString

5 - instantiate, bind, unbind
6 - instantiate, lookup
7 - getRegistry
8 - exportObject, unexportObject
9 - getSecurityManager, setSecurityManager
10 - setHostessState, setPassengerState
11 - instantiate, shutdown

ServerAirLiftDestinationAirport
Interaction Diagram

1 - instantiate
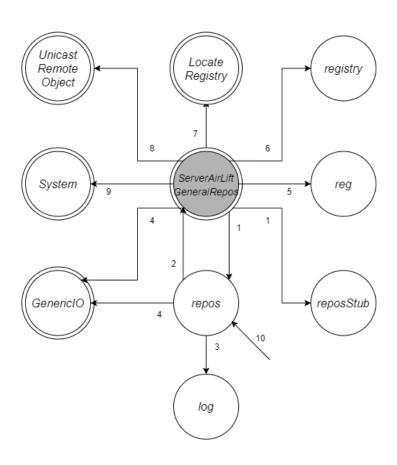2 - shutdown
3 - leaveThePlane, endOperation, shutdown
4 - writeInString

5 - instantiate, bind, unbind
6 - instantiate, lookup
7 - getRegistry
8 - exportObject, unexportObject
9 - getSecurityManager, setSecurityManager
10 - setPassengerState
11 - instantiate, shutdown
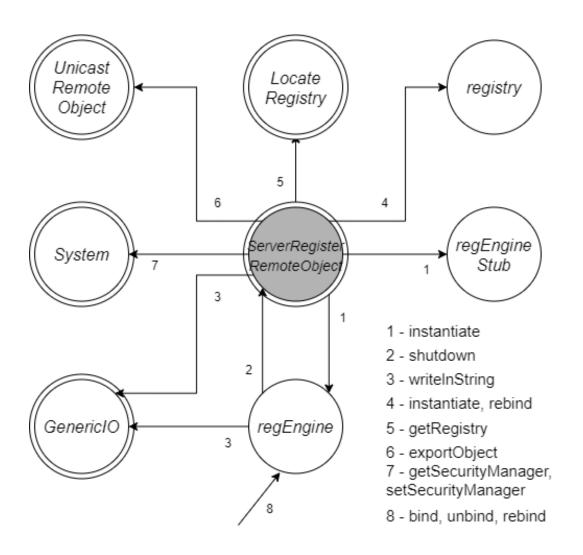
ServerAirLiftPlane
Interaction Diagram

1 - instantiate

2 - shutdown

3 - getInF, reportFinalReport, parkAtTransferGate, informPlaneReadyForBoarding, waitForNextFlight, waitForAllInBoarding, informPlaneReadyToTakeOff, waitForEndOfFlight, announceArrival, notifyPilot, endOperation, shutdown

4 - writeInString

5 - instantiate, bind, unbind

6 - instantiate, lookup

7 - getRegistry

8 - exportObject, unexportObject

9 - getSecurityManager, setSecurityManager

10 - setHostessState, setPilotState

11 - instantiate, shutdown
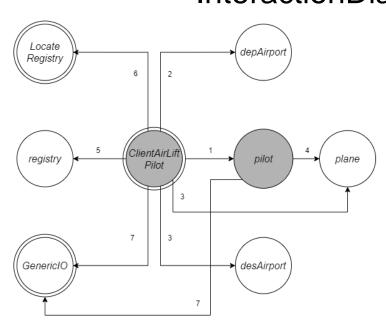
ServerAirLiftGeneralRepos
Interaction Diagram

1 - instantiate

2 - shutdown

3 - instantiate, openForWriting, writeInString, openForAppending, close

4 - writeInString

5 - instantiate, bind, unbind

6 - instantiate, lookup

7 - getRegistry

8 - exportObject, unexportObject

9 - getSecurityManager, setSecurityManager

10 - setPilotState, setHostessState, setPassengerState, reportFinalInfo, shutdown
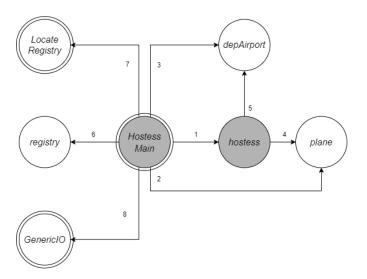
ServerRegisterRemoteObject
Interaction Diagram

Unicast Remote Object

Locate Registry

registry

System

ServerRegister RemoteObject

regEngine Stub

GenericIO

regEngine

1 - instantiate
2 - shutdown
3 - writeInString
4 - instantiate, rebind
5 - getRegistry
6 - exportObject
7 - getSecurityManager, setSecurityManager
8 - bind, unbind, rebind

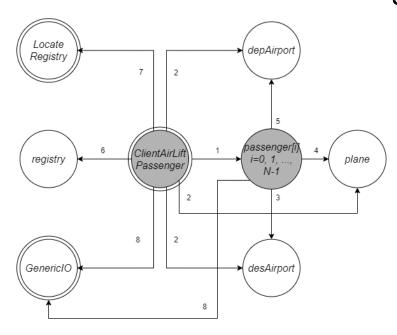# Client Side:

ClientAirLiftPilot InteractionDiagram

1 - instantiate, start, join, isAlive

2 - instantiate, shutdown

3 - instantiate, shutdown, endOperation

4 - reportFinalReport, announceArrival, waitForAllInBoarding, informPlaneReadyForBoarding, parkAtTransferGate

5 - instantiate, lookup

6 - getRegistry

7 - writeInString

ClientAirLiftHostess Interaction Diagram

1 - instantiate, start, join, isAlive

2 - instantiate, shutdown

3 - instantiate, shutdown, endOperation

4 - waitForNextFlight, informPlaneReadyToTakeOff

5 - prepareForPassBoarding, checkDocuments, waitForNextPassenger

6 - instantiate, lookup

7 - getRegistry

8 - writeInString

ClientAirLiftPassenger
Interaction Diagram

Locate Registry

depAirport

registry

ClientAirLift Passenger

passenger[i]
i=0, 1, ...,
N-1

plane

GenericIO

desAirport

1 - instantiate, start, join, isAlive

2 - instantiate, shutdown

3 - leaveThePlane

4 - notifyPilot, getInF, waitForEndOfFlight

5 - leaveThePlane, boardThePlane, showDocuments, waitInQueue

6 - instantiate, lookup

7 - getRegistry

8 - writeInString