Data Flow Diagram:
Big Picture

SQLite Database

X, Y, Z, ID, Speed Cardinality for all Aircraft

Each Aircraft's New Location

Simulator

Initial: Own Information Later: Neighbor's Info

Aircraft's New Location
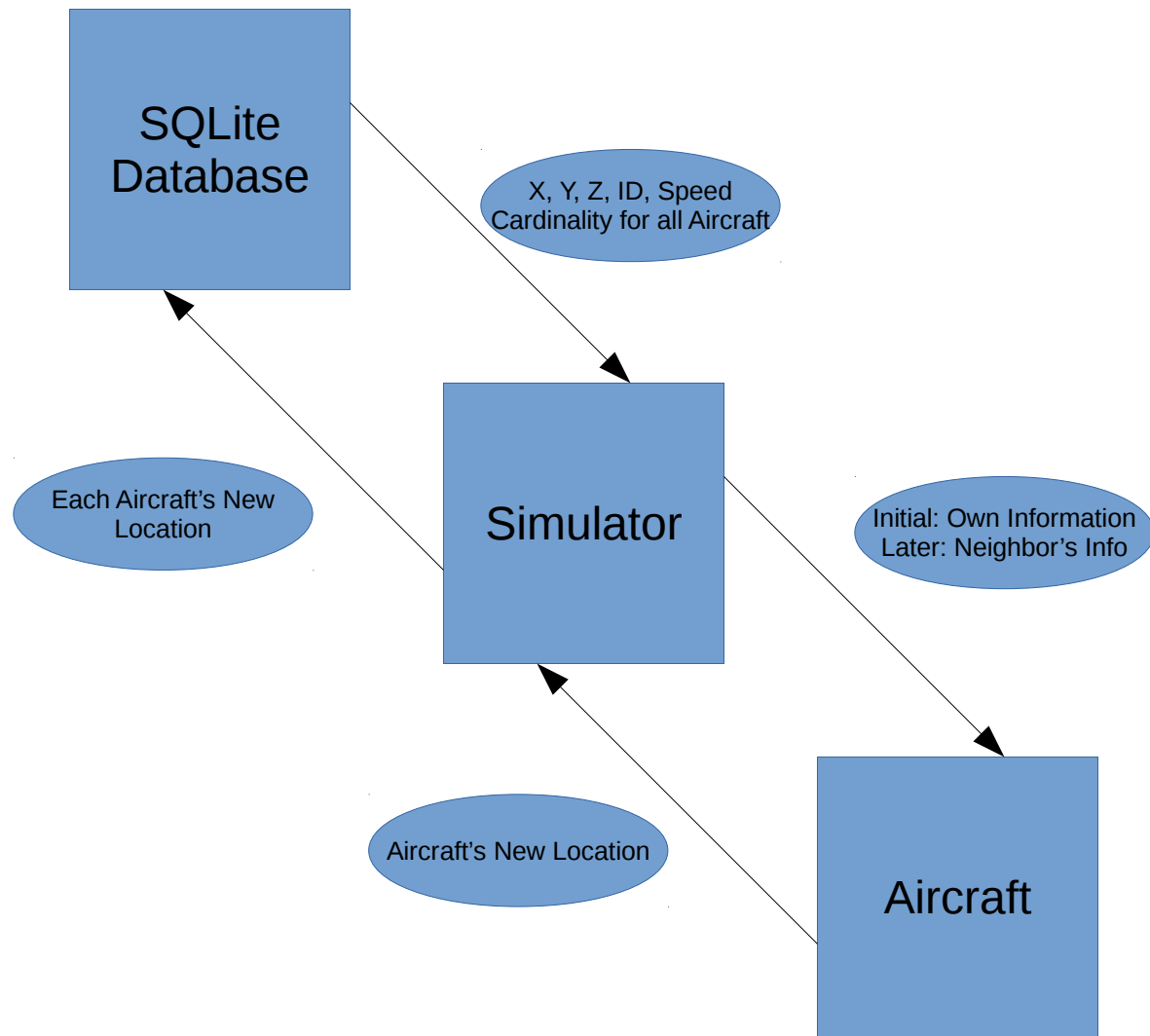
Aircraft

Data Flow Diagram:
Aircraft Step

Simulator
List of All Aircraft

1. Communicator Listens for Neighbor Info

8. Communicator Broadcasts New Location to Simulator

Communicator
List of Neighbors
ID
X
Y
Z
Speed
Cardinality

2. Communicator Passes Neighbor Info to Aircraft

7. Aircraft Passes New Location to Communicator

Aircraft
List of Neighbors
ID
X
Y
Z
Speed
Cardinality
CA Recommendation

3. Aircraft Sends Neighbor Info To Collision Avoidance

6. Mover Sends New Location to Aircraft

4. Collision Avoidance Sends Avoidance Information to Aircraft

5. Aircraft Sends Avoidance Info To Mover

Collision Avoidance

Neighbor X
Neighbor Y
Neighbor Z
Own X
Own Y
Own Z

Mover
CA Recommendation
X
Y
Z
Speed
Cardinality