Number of Steps to Run

Simulation data (network capacities, information regimes)

Flights Database (OAG)

Flight Paths by Origin-Destination Pair

Extend Schedule of Active Flights

NETSIM-121

Updated Simulation Data

Aircraft Speed Profile Algorithm

Schedule Flights at Airports and Waypoints Based on Algorithm Choice

NETSIM-122

Updated Simulation Data

Airport Flow Regulator: Queue Pressure or FCFS

+

Waypoint Flow Regulator: Gradient Descent Ascent or Simulated Annealing

Discrete Event Simulator

Advance Simulation

NETSIM-123

Updated Simulation Data

Updated Simulation Data

Forward and Backward TTO Calculation by Information Regime

Advance Completed Flights and Trajectories

NETSIM-123

Simulated Completed Flights by Simulation Index

NETSIM-12 Run Single Step of Simulation