AMoDeus Simulation Report

Simulation Information

User: root
Timestamp: 2019/04/27 - 17:44:30

Iterations: 1 ,i.e., 0 in matsim config.

AV File   AV_Config File

Dispatcher: AidoDispatcherHost
Rebalancing Period: -00:00:01
Redispatching Period: 00:00:10

Network: null_prepared
Virtual Nodes: no virtual network found
Population: 500
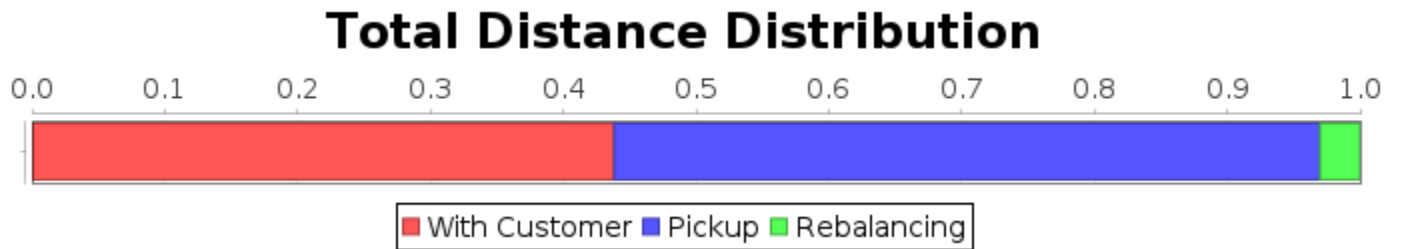

Number of Vehicles: 20
Number of Requests   500

Aggregated Results

Distance Ratio: 43.84%

Occupancy Ratio: 17.86 %

Distances

Total: 18695.58 km

Rebalancing: 561.47 km (3.00%)
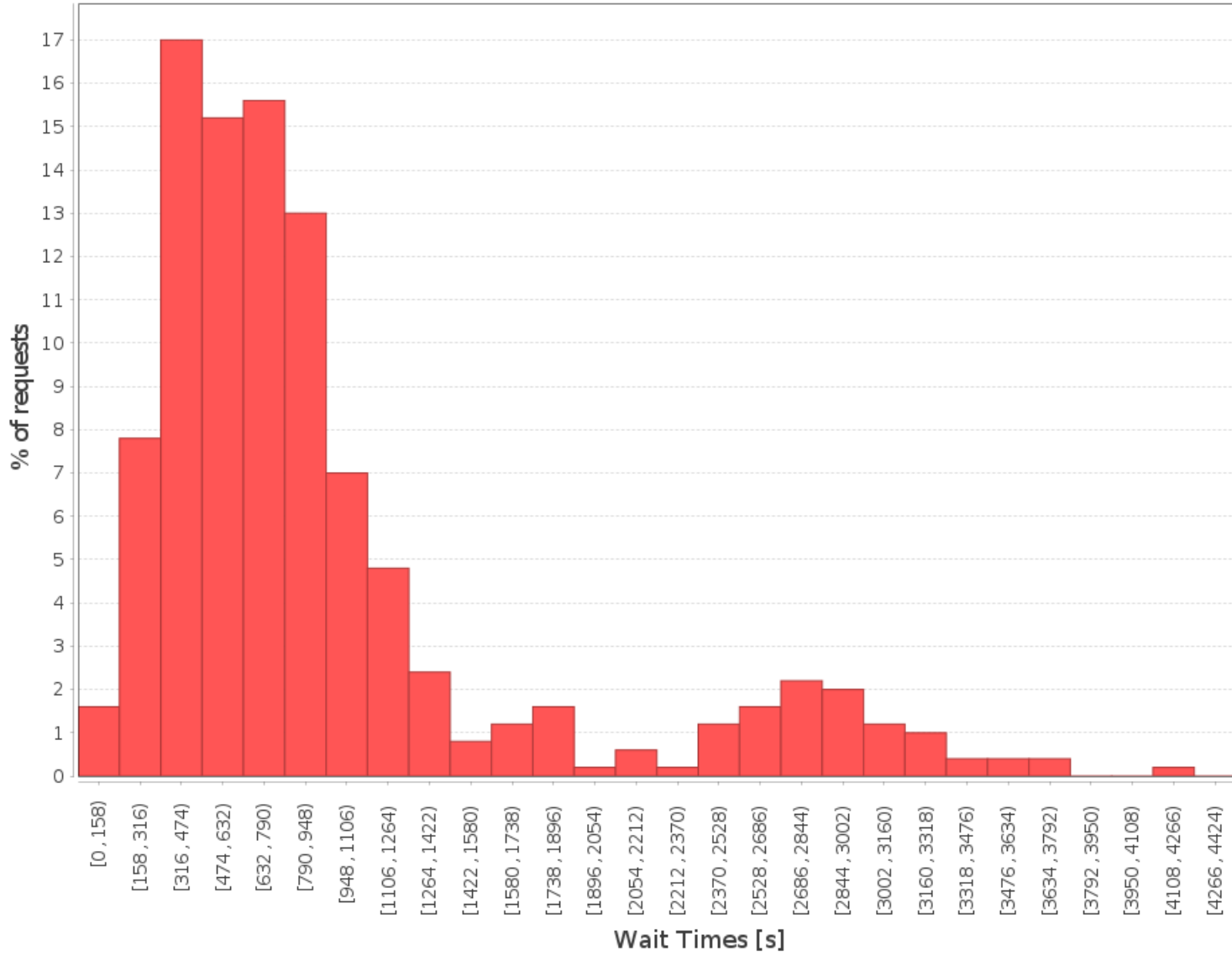
Pickup: 9937.75 km (53.16%)

With Customer: 8196.36 km (43.84%)

Average Trip Distance: 16.39 km

Total Distance Distribution

| 0.0 | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 | 1.0 |

■ With Customer ■ Pickup ■ Rebalancing

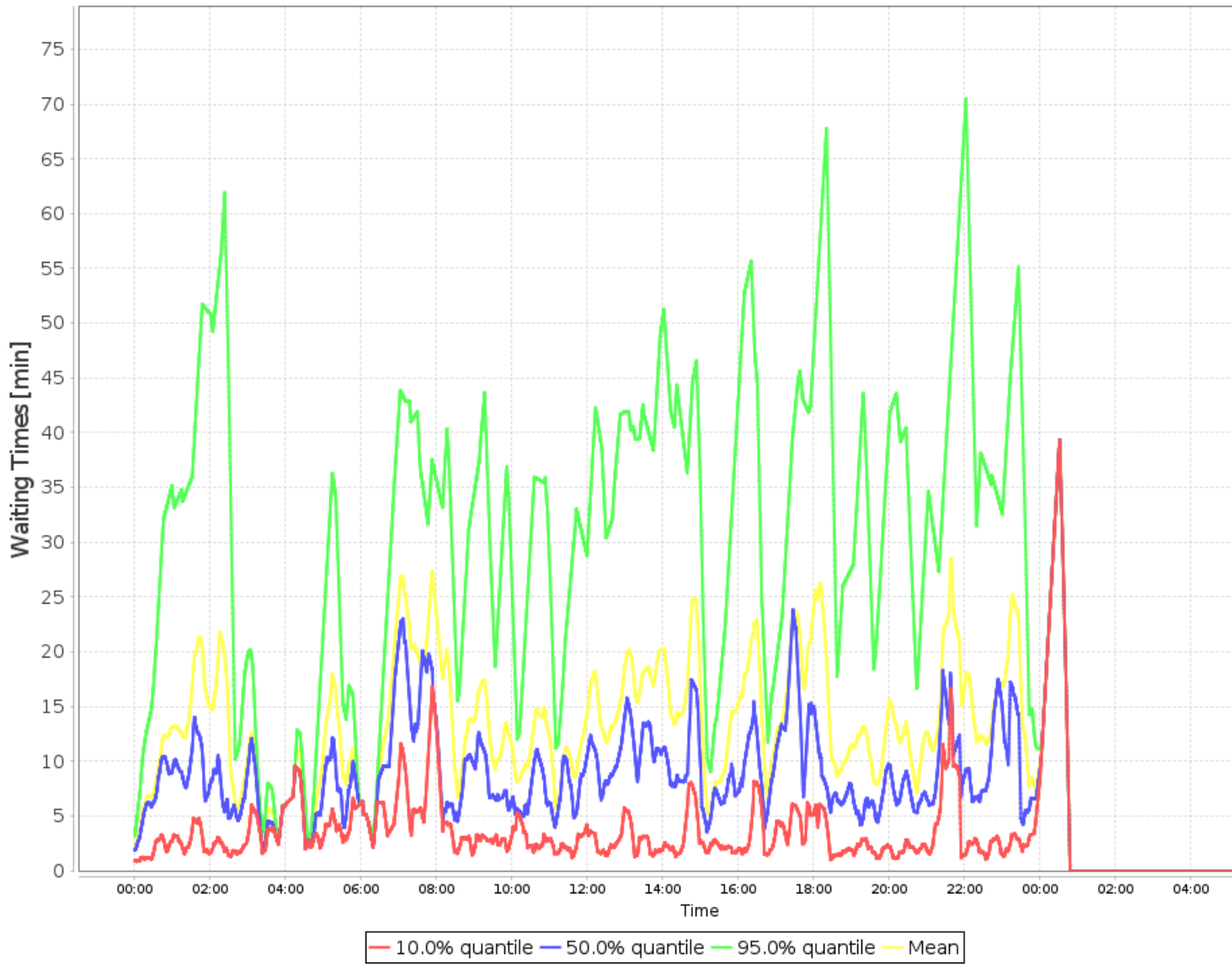## Wait Times

10.0% quantile   00:05:25

50.0% quantile   00:11:58

95.0% quantile   00:47:50

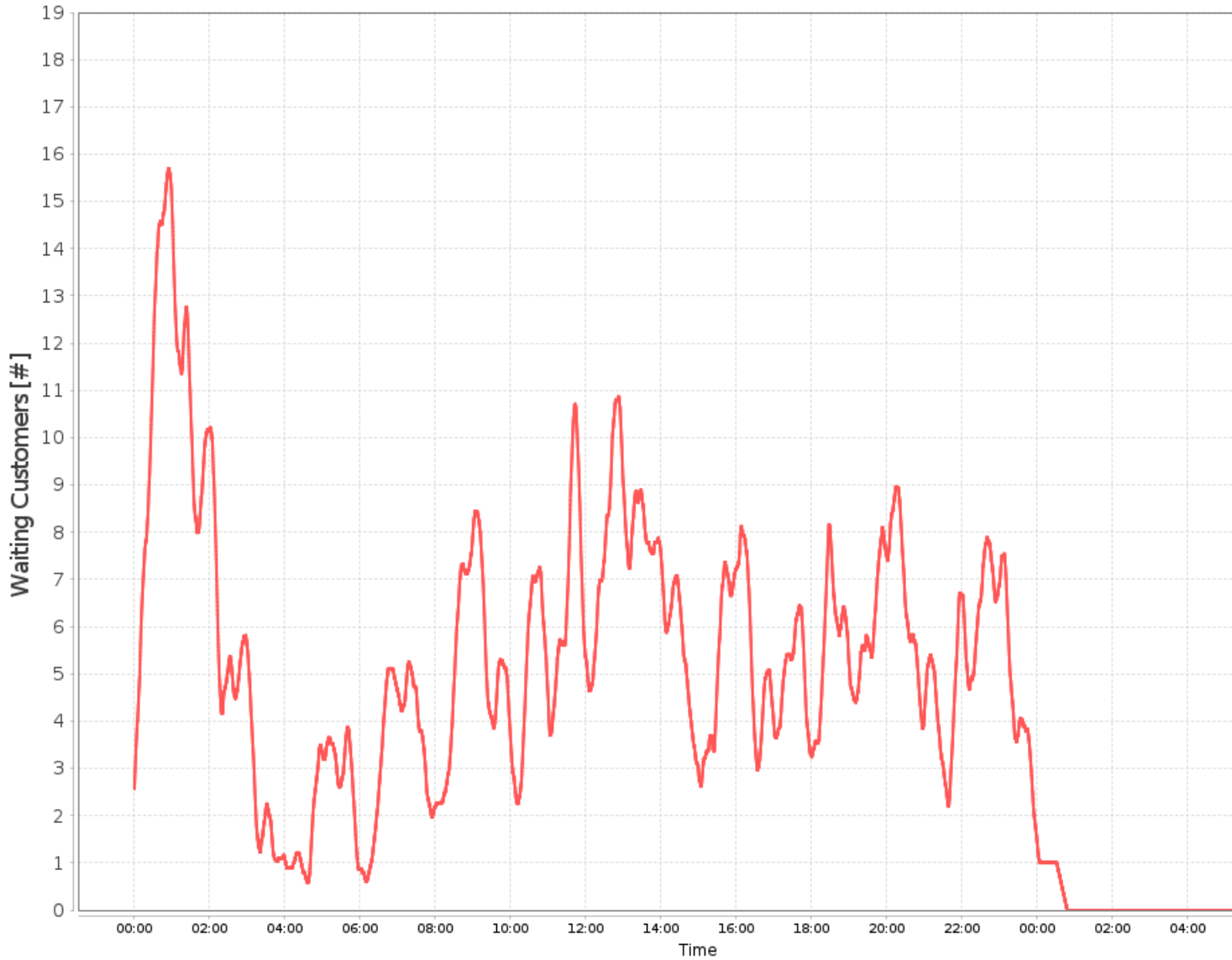Mean   00:16:06
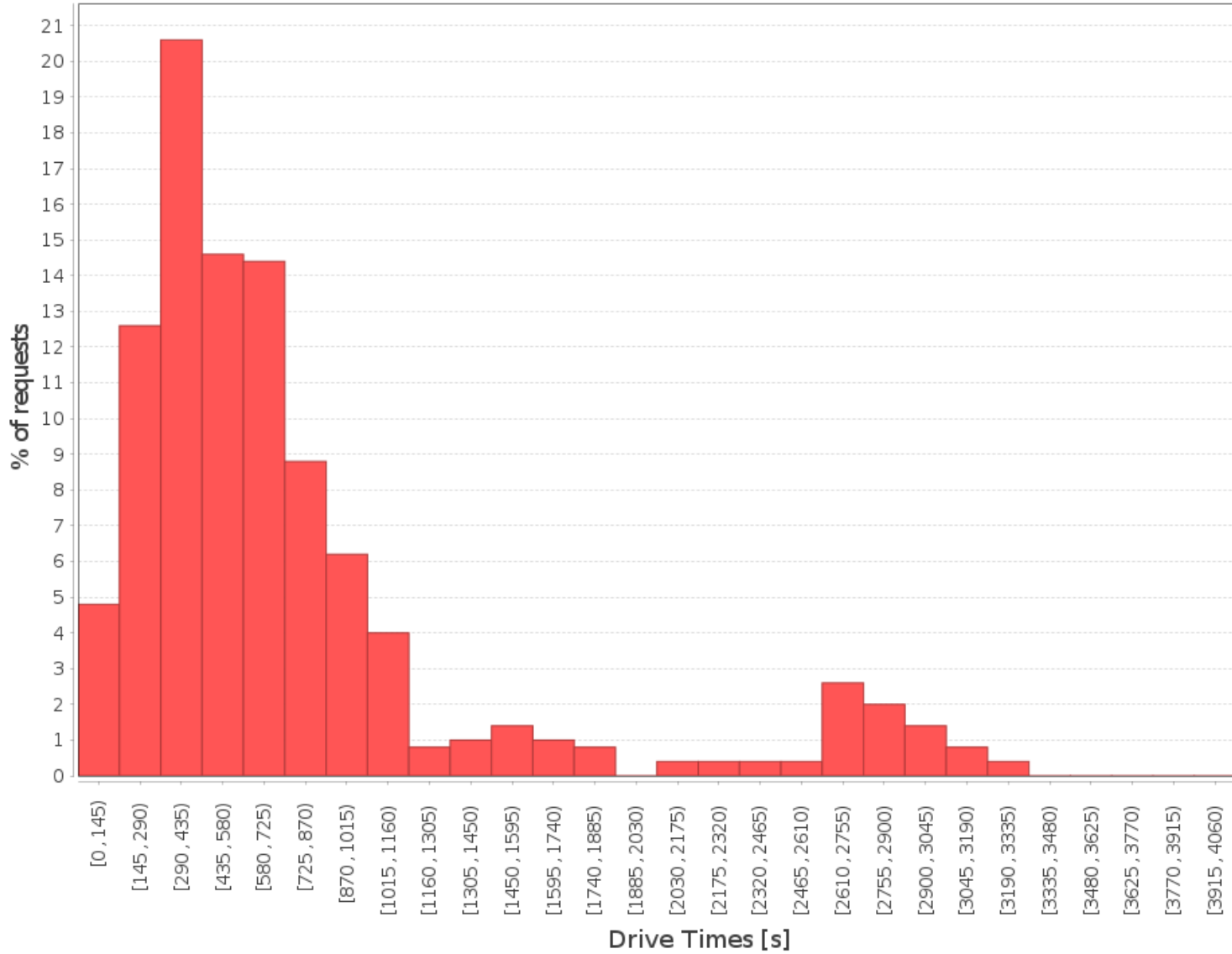
Maximum: 01:18:59

Number of Requests per Wait Time

% of requests

Wait Times [s]

Binned Waiting Times

Legend: 10.0% quantile — 50.0% quantile — 95.0% quantile — Mean

Y-axis: Waiting Times [min]

X-axis: Time

Waiting Customers per Day Time

Drive Times

10.0% quantile	00:03:30
50.0% quantile	00:09:10
95.0% quantile	00:45:40
Mean	00:12:51
Maximum:	01:12:20

Number of Requests per Drive Time

Total Journey Times

10.0% quantile	00:11:29
50.0% quantile	00:21:53
95.0% quantile	01:17:27
Mean	00:28:57
Maximum:	01:59:06

Number of Requests per Total Journey Time
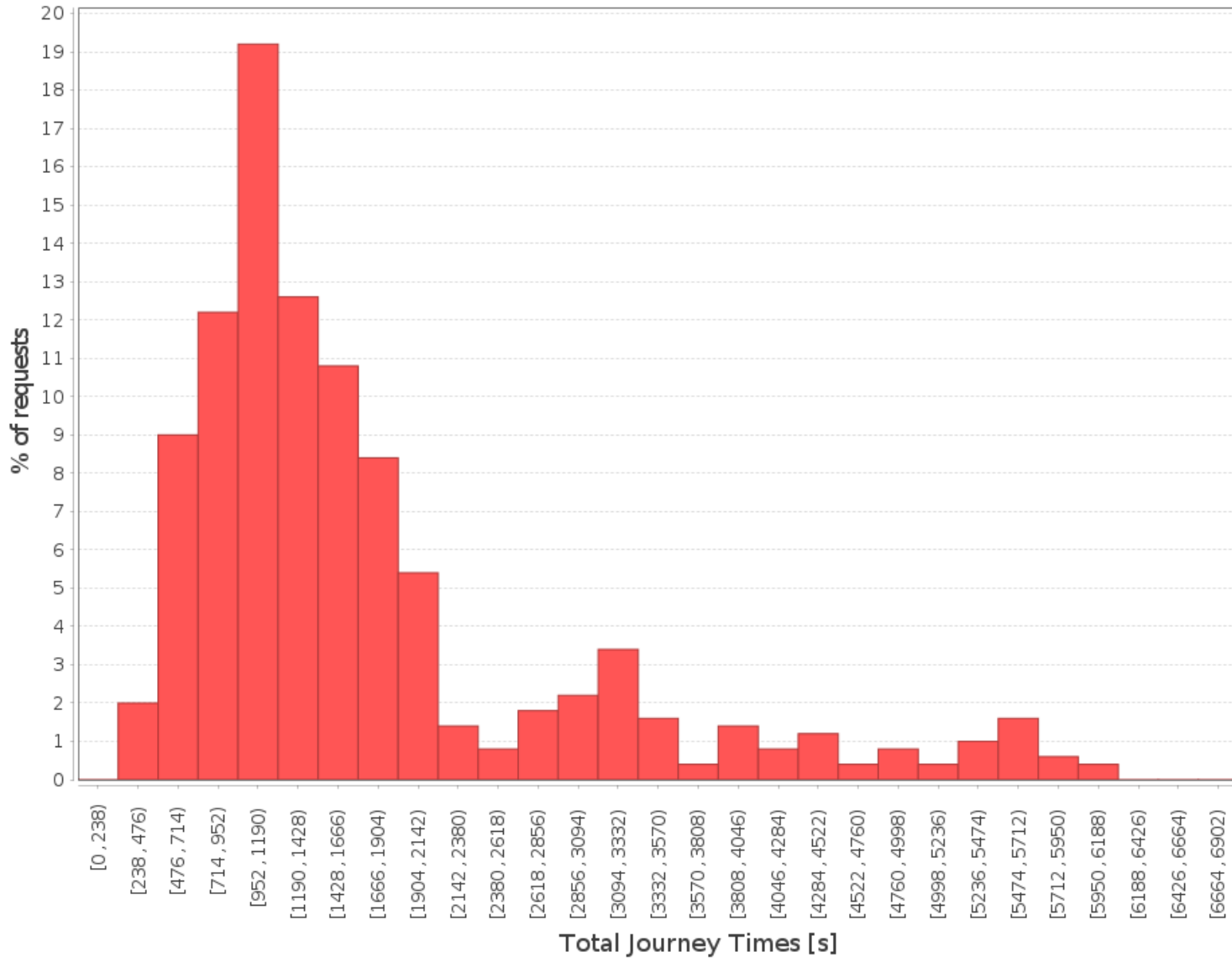
Fleet Efficiency

Distance Distribution over Day
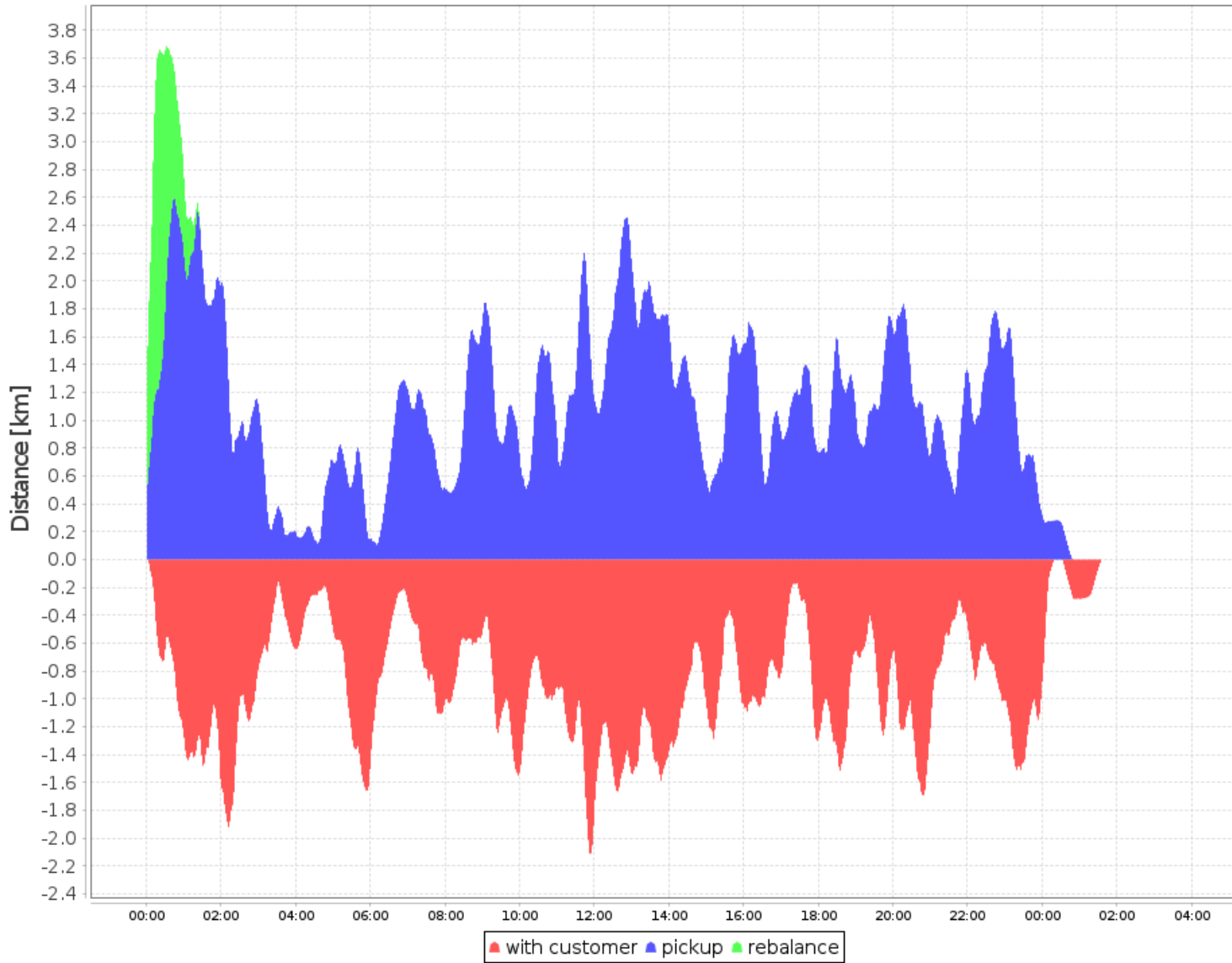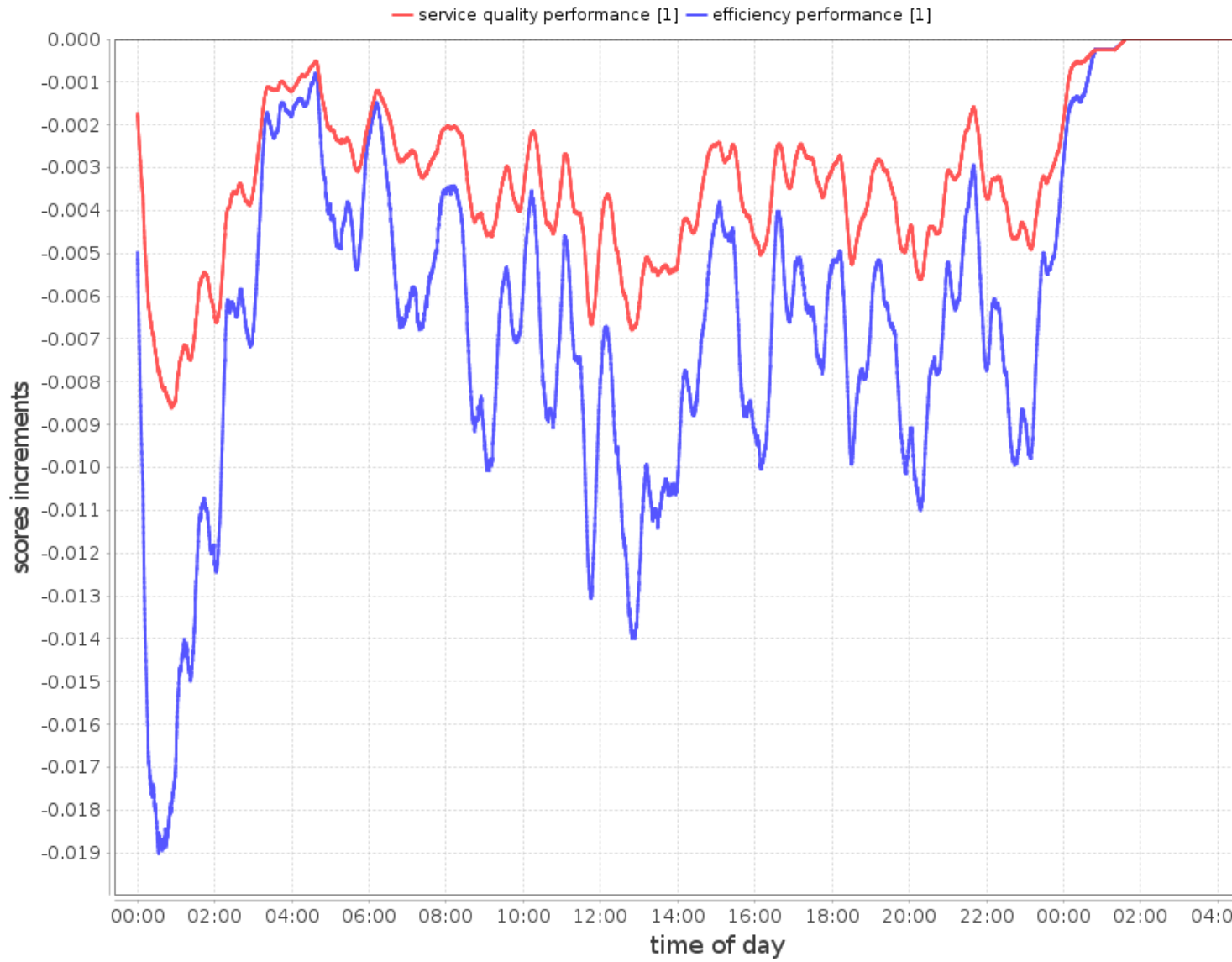
Occupancy and Distance Ratios

Number Passengers

Legend: 1 Passenger · pickup · rebalance · stay · off service
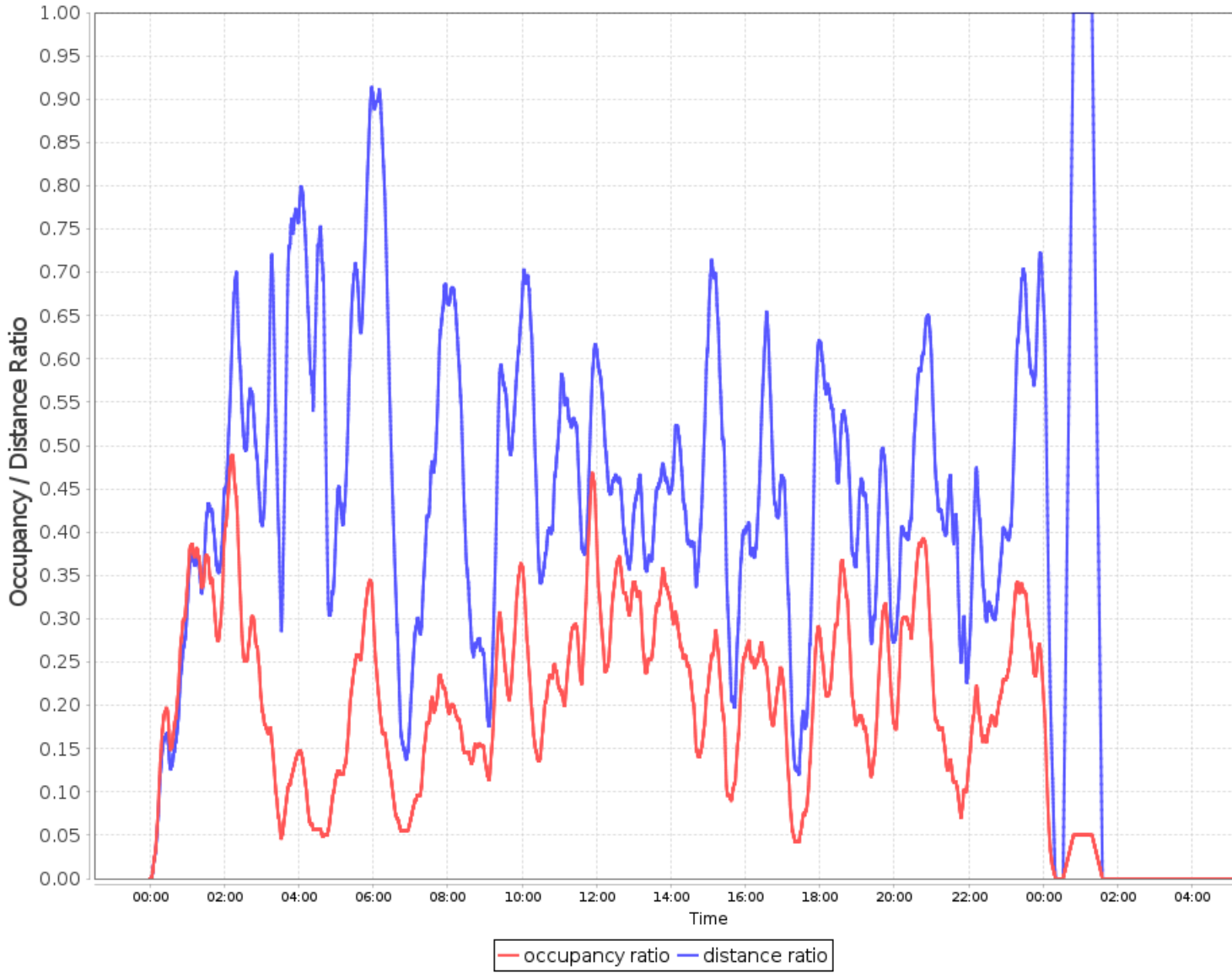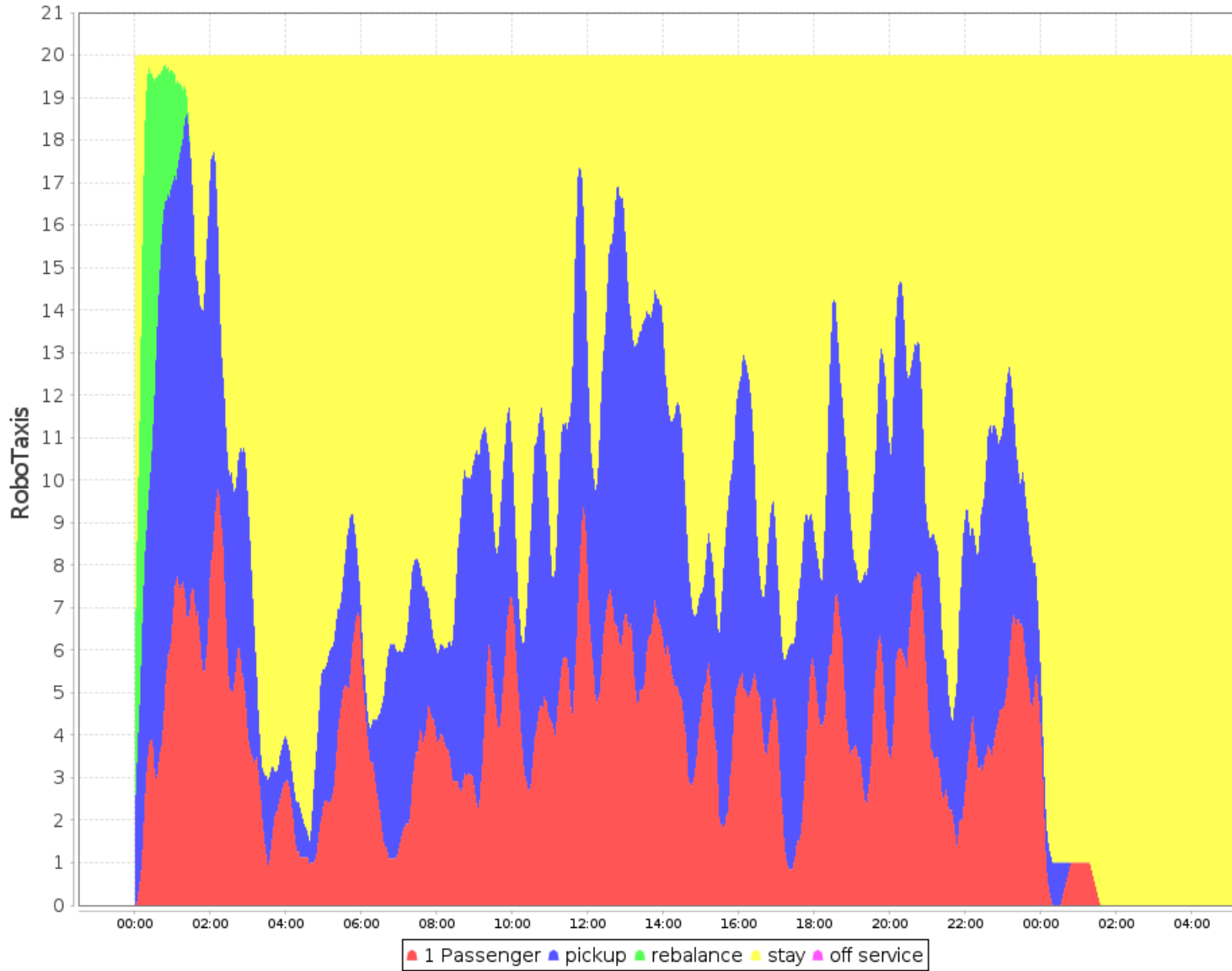
Ride Sharing Distribution, fraction of Requests

1 Passengers

Aido Scores

Scores during Simulation

Service Quality and Efficiency Score Increments

— service quality performance [1] — efficiency performance [1]

Service Quality and Efficiency Score Integrated

— service quality performance [1] — efficiency performance [1]

scores integrated

time of day
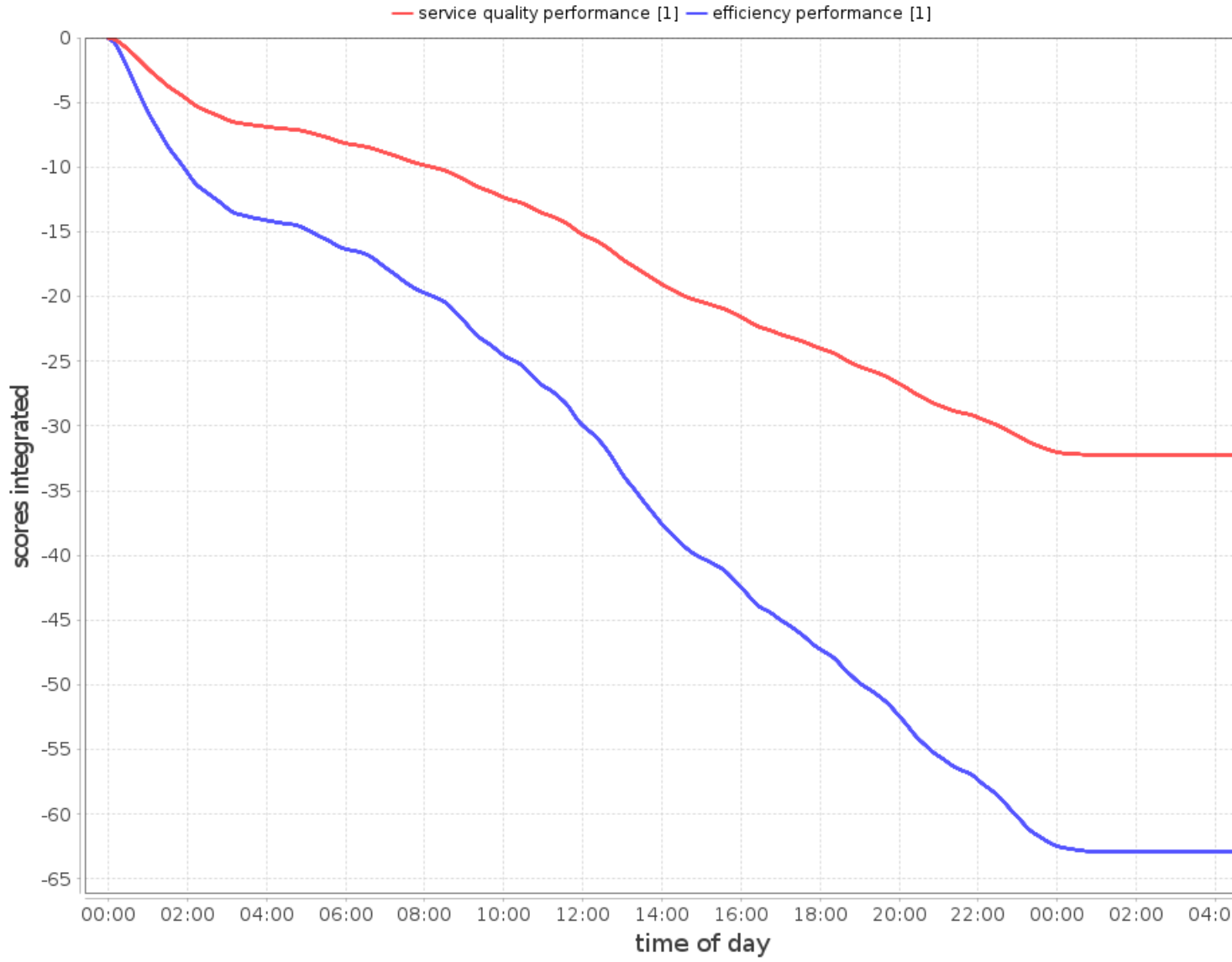
Fleet Size Score Integrated
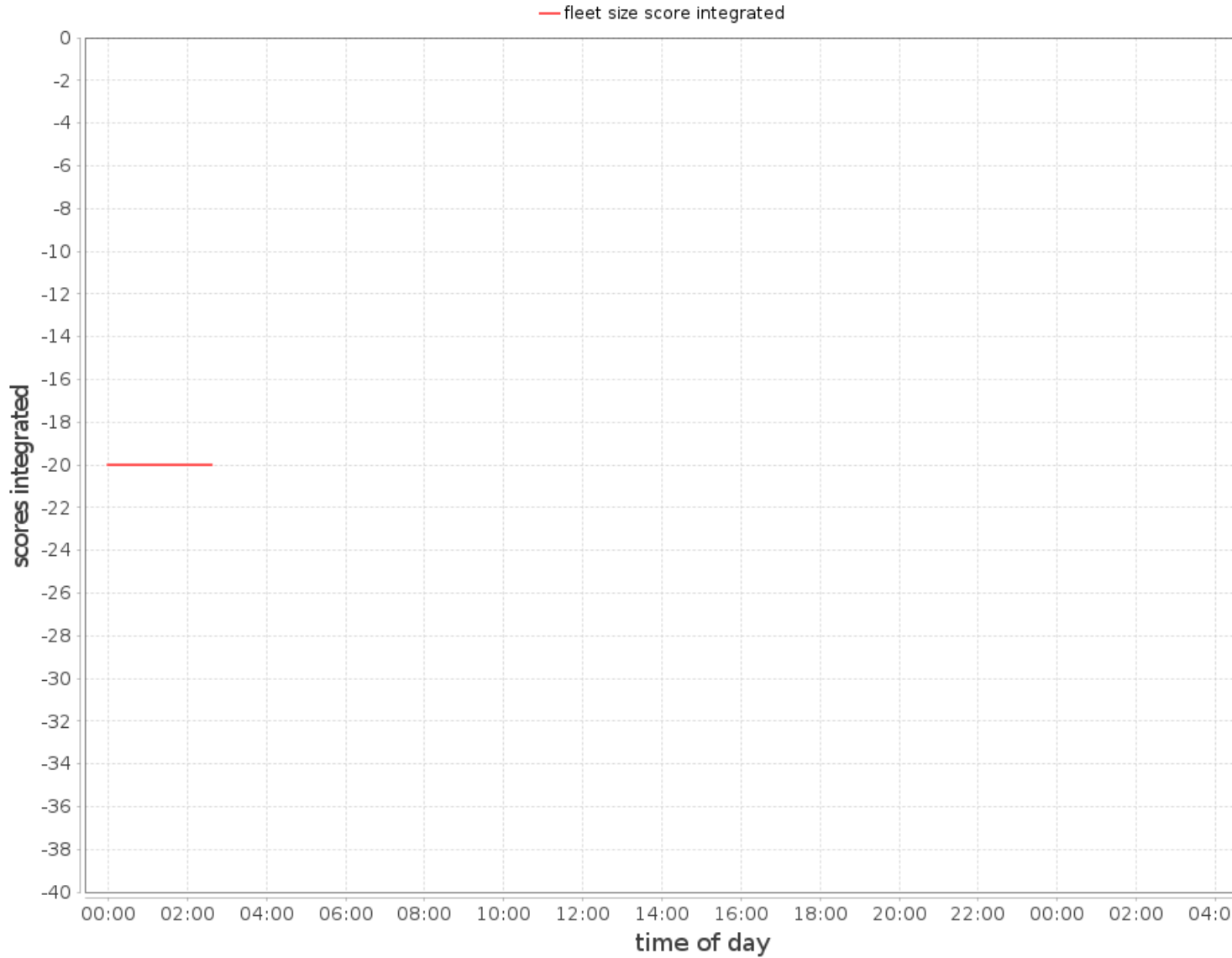
Final Scores

final service quality score:	-32.277470306839234
final efficiency score:	-62.9040012273548
final fleet size score:	-Infinity