AMoDeus Simulation Report

Simulation Information

User:	root
Timestamp:	2018/12/03 - 08:42:07

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:	43.26%
Occupancy Ratio:	17.86 %

Distances

Total:	18947.65 km
Rebalancing:	613.54 km (3.24%)
Pickup:	10136.61 km (53.50%)
With Customer:	8197.50 km (43.26%)

Average Trip Distance:	16.40 km

Total Distance Distribution

■ With Customer ■ Pickup ■ Rebalancing
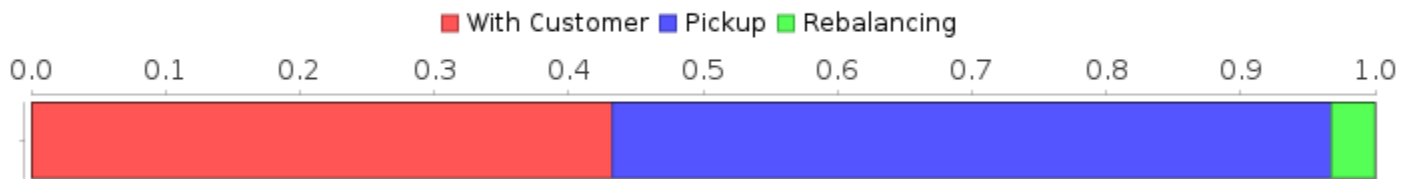
Wait Times

10.0% quantile	00:05:18
50.0% quantile	00:12:19
95.0% quantile	00:48:20
Mean	00:16:37
Maximum:	01:17:29

Number of Requests per Wait Time

% of requests

Wait Times [s]

[0 , 155)
[155 , 310)
[310 , 465)
[465 , 620)
[620 , 775)
[775 , 930)
[930 , 1085)
[1085 , 1240)
[1240 , 1395)
[1395 , 1550)
[1550 , 1705)
[1705 , 1860)
[1860 , 2015)
[2015 , 2170)
[2170 , 2325)
[2325 , 2480)
[2480 , 2635)
[2635 , 2790)
[2790 , 2945)
[2945 , 3100)
[3100 , 3255)
[3255 , 3410)
[3410 , 3565)
[3565 , 3720)
[3720 , 3875)
[3875 , 4030)
[4030 , 4185)
[4185 , 4340)
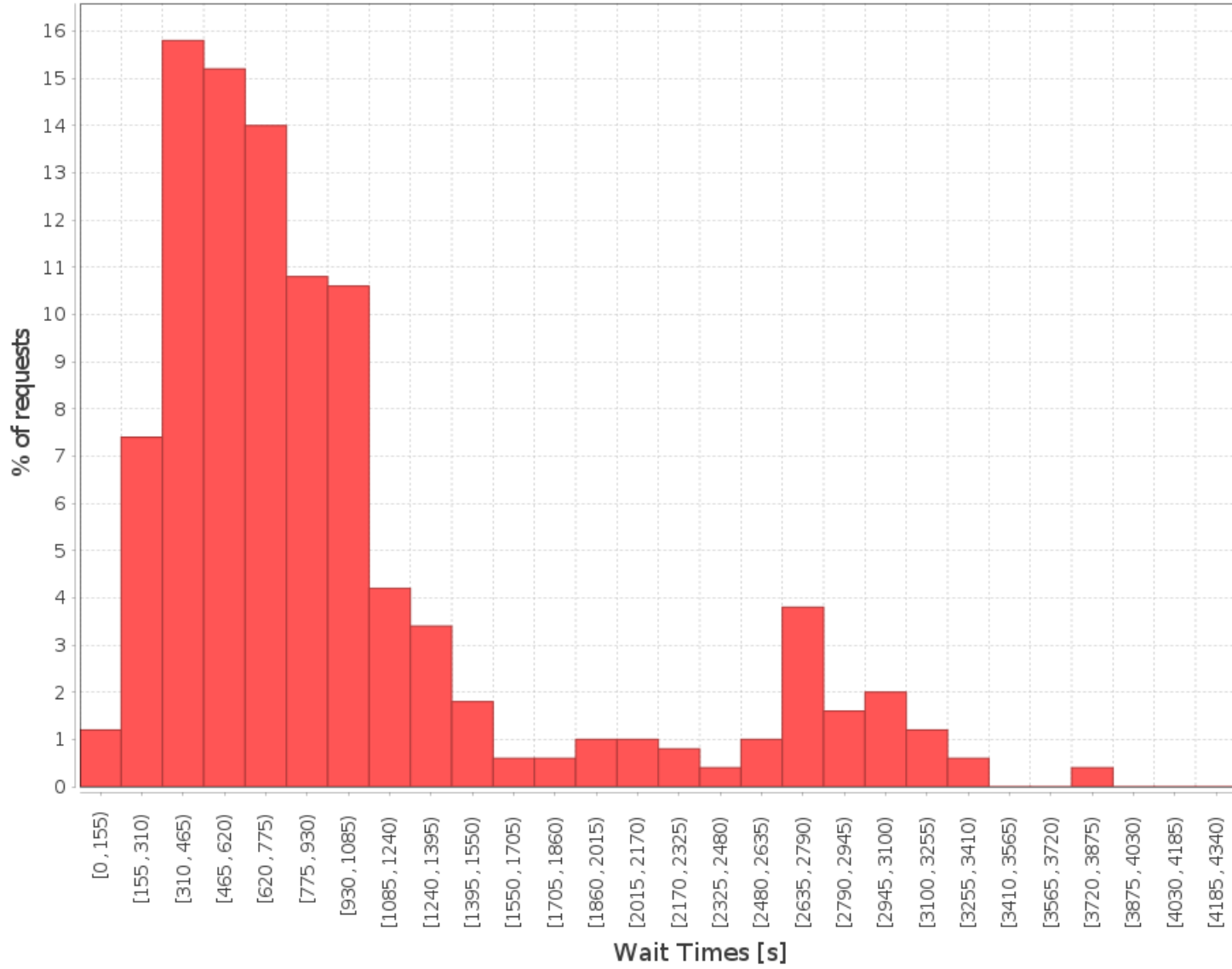
Binned Waiting Times

— 10.0% quantile — 50.0% quantile — 95.0% quantile — Mean
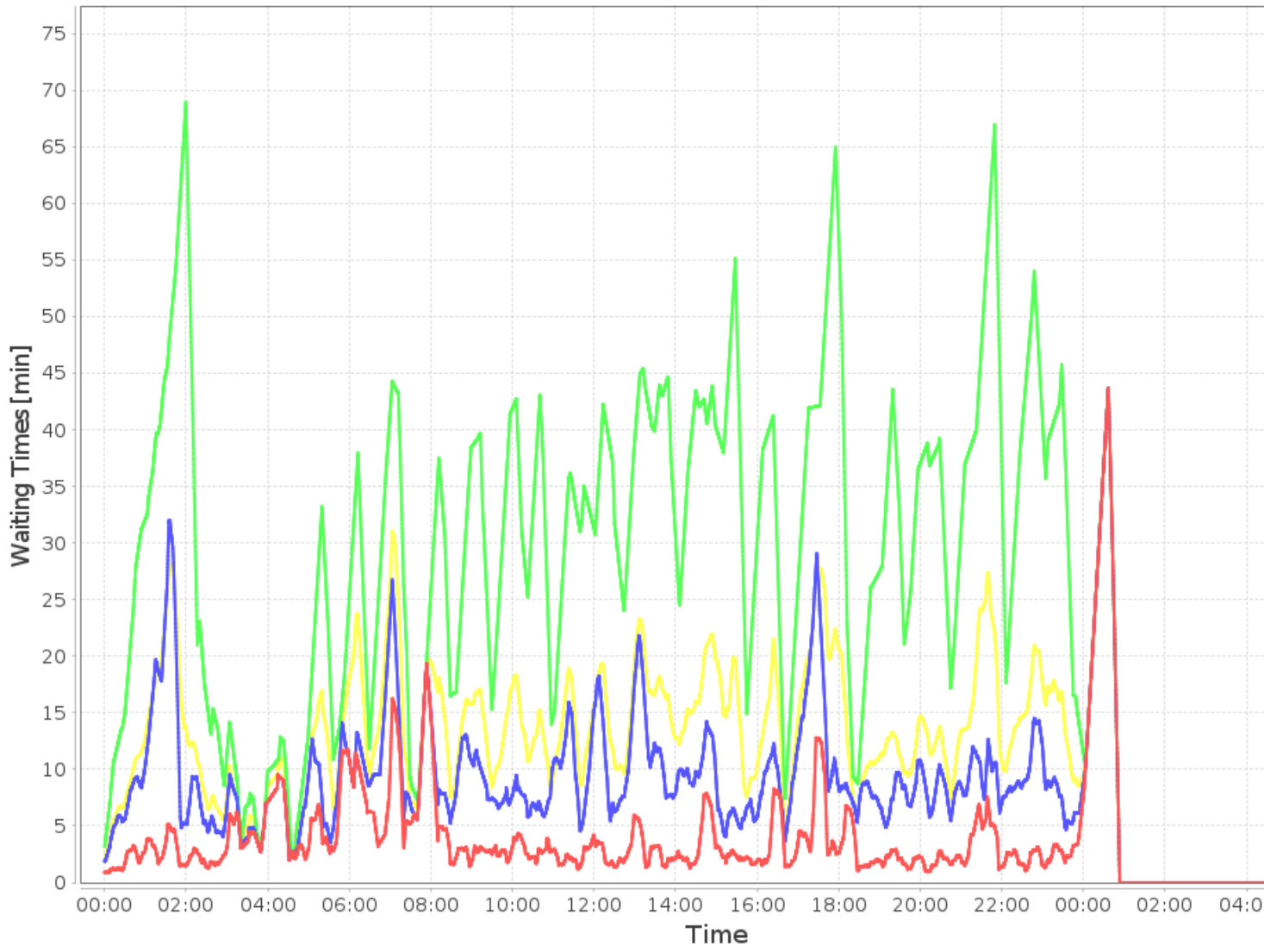
Waiting Customers per Day Time

— # waiting customers
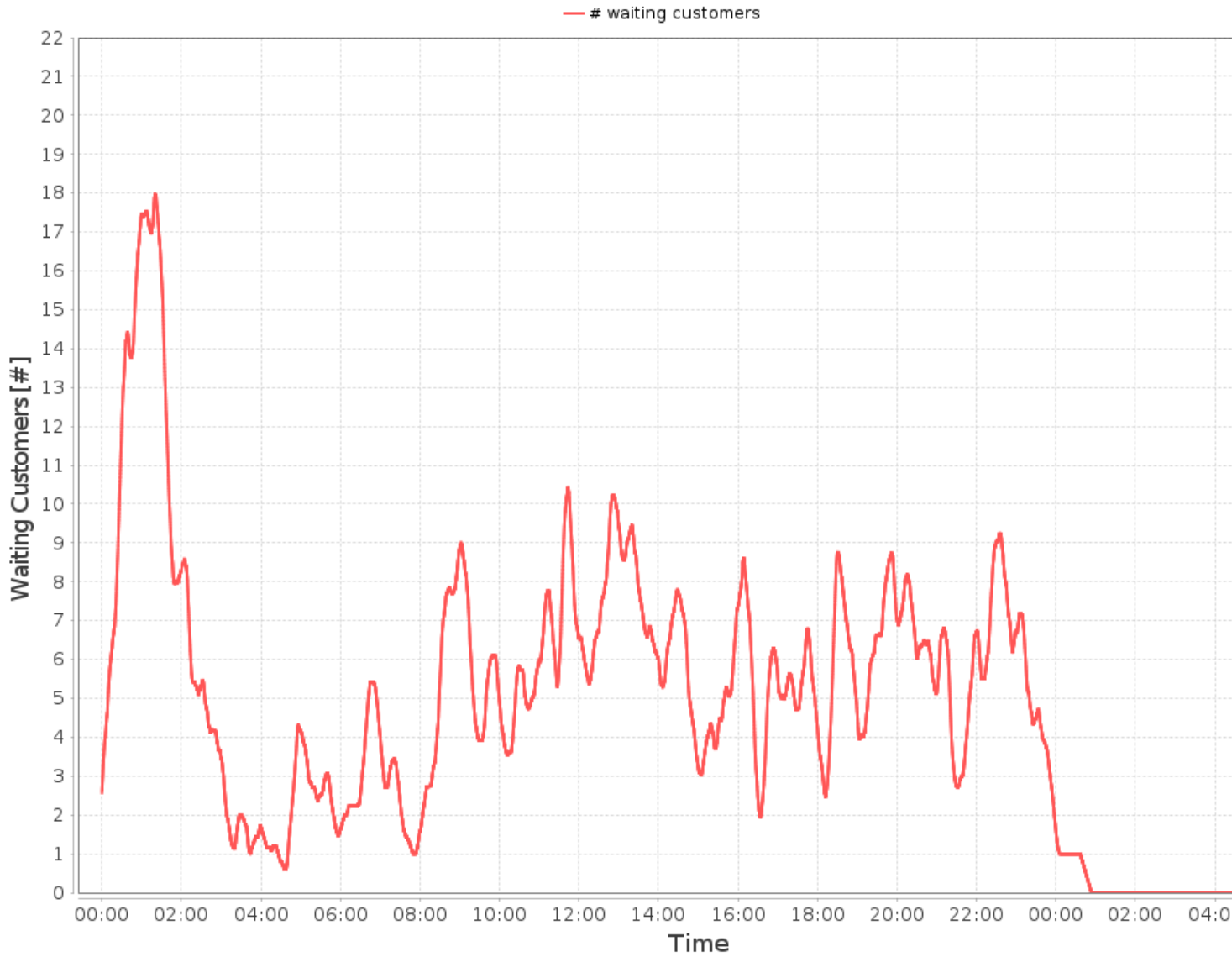
Drive Times

10.0% quantile	00:03:30
50.0% quantile	00:09:10
95.0% quantile	00:45:30
Mean	00:12:50
Maximum:	01:12:20

Number of Requests per Drive Time
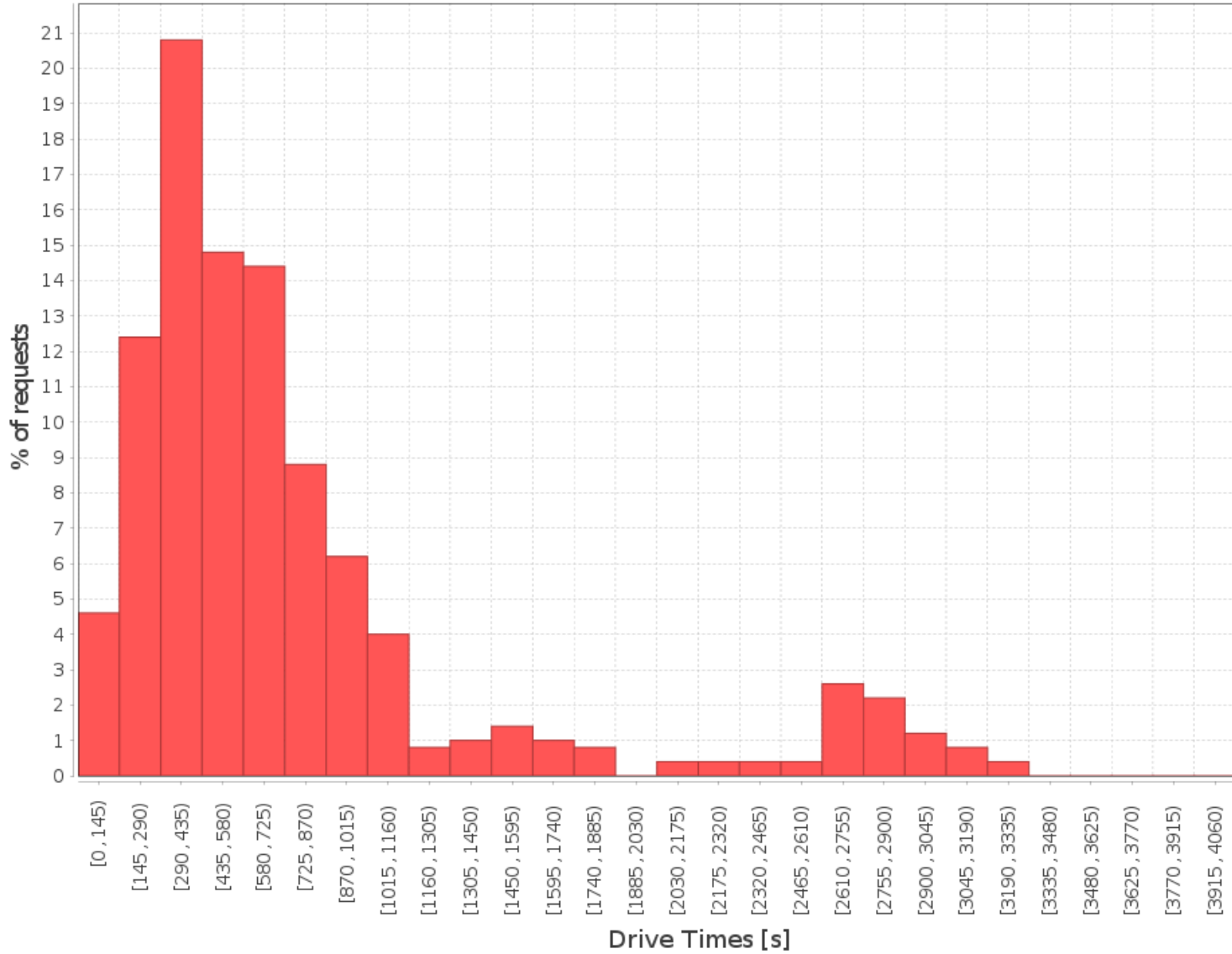
Total Journey Times

10.0% quantile	00:10:54
50.0% quantile	00:22:28
95.0% quantile	01:19:17
Mean	00:29:28
Maximum:	01:44:03

Number of Requests per Total Journey Time
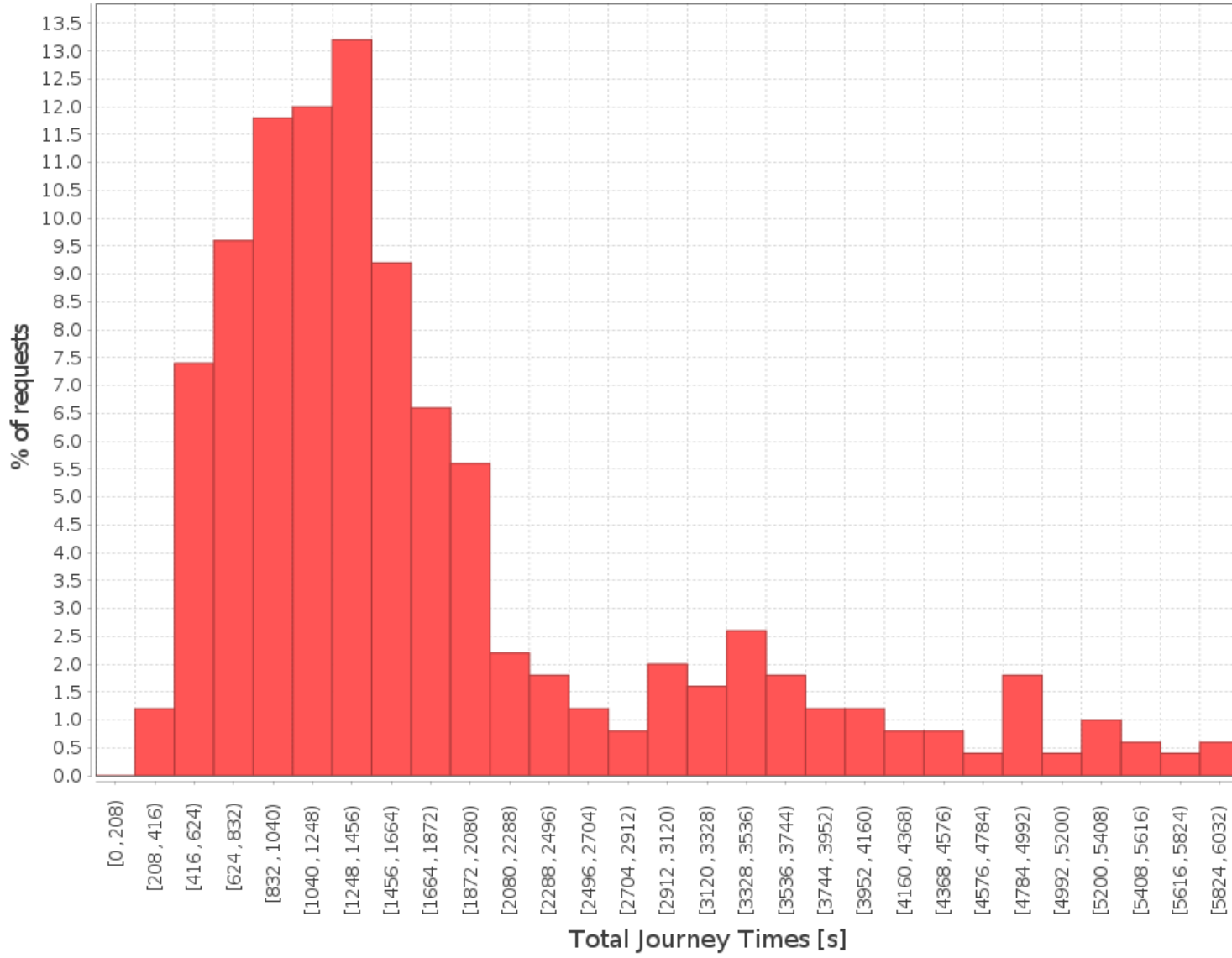
Fleet Efficiency

Distance Distribution over Day

● with customer ● pickup ● rebalance
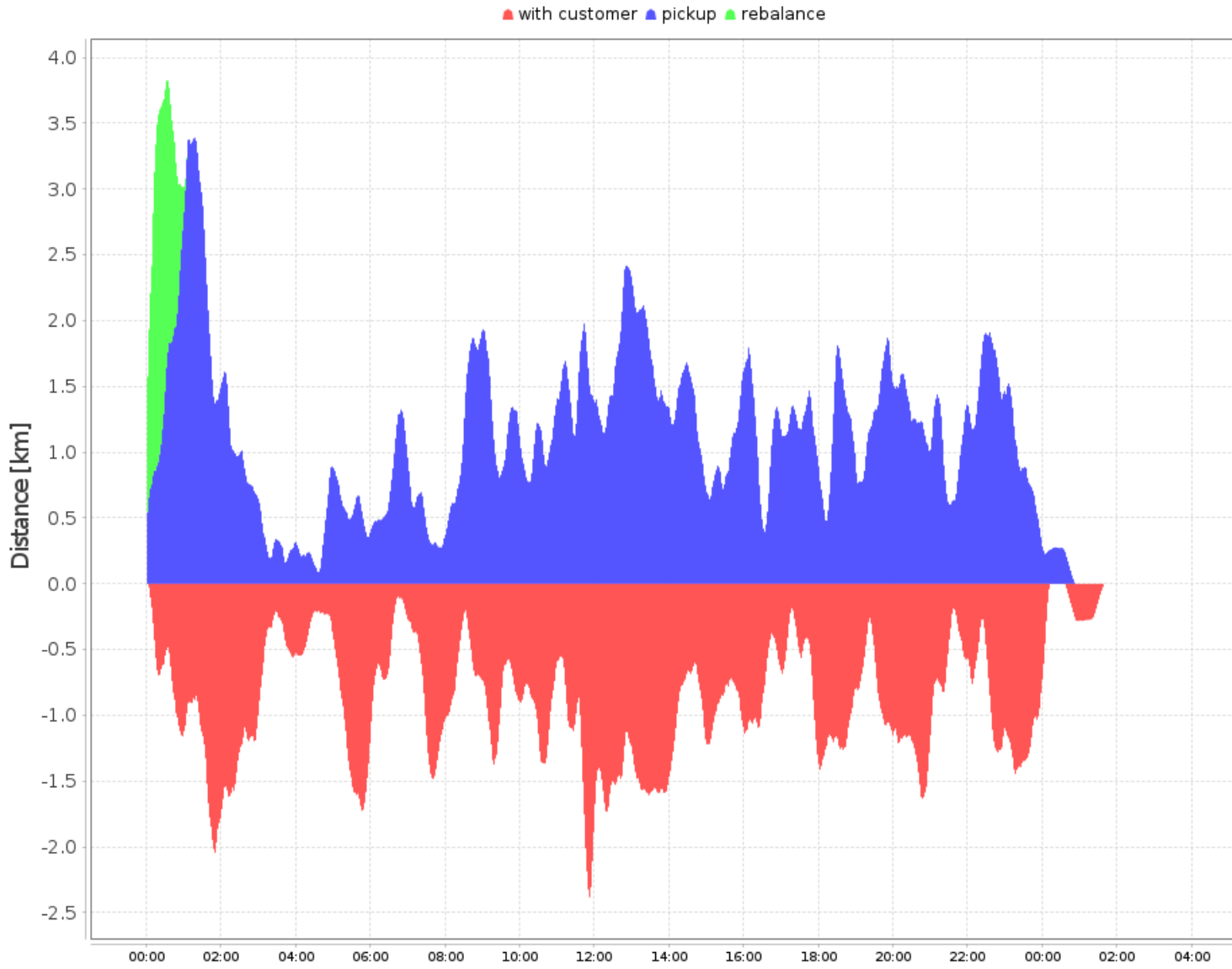
Occupancy and Distance Ratios

Status Distribution
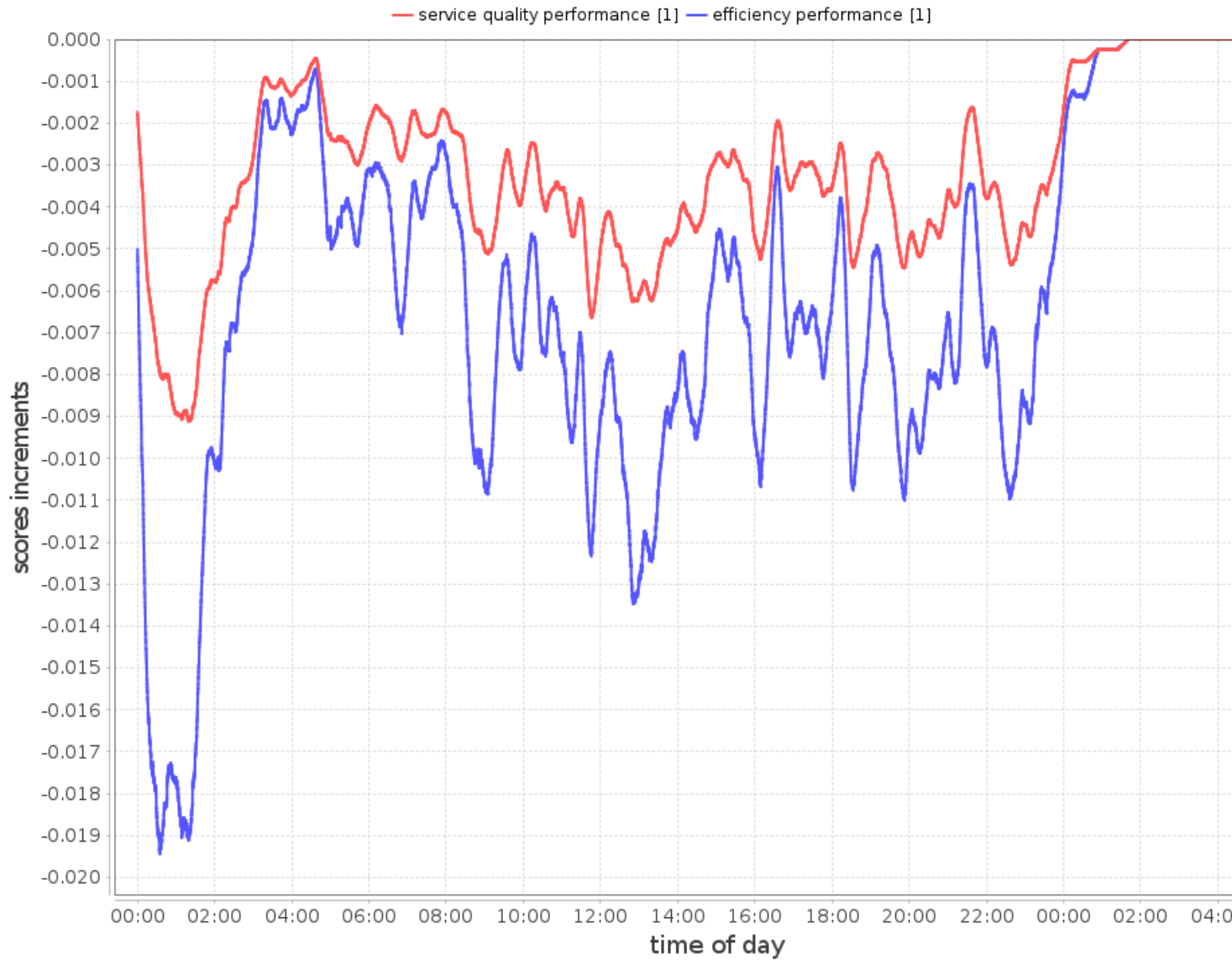
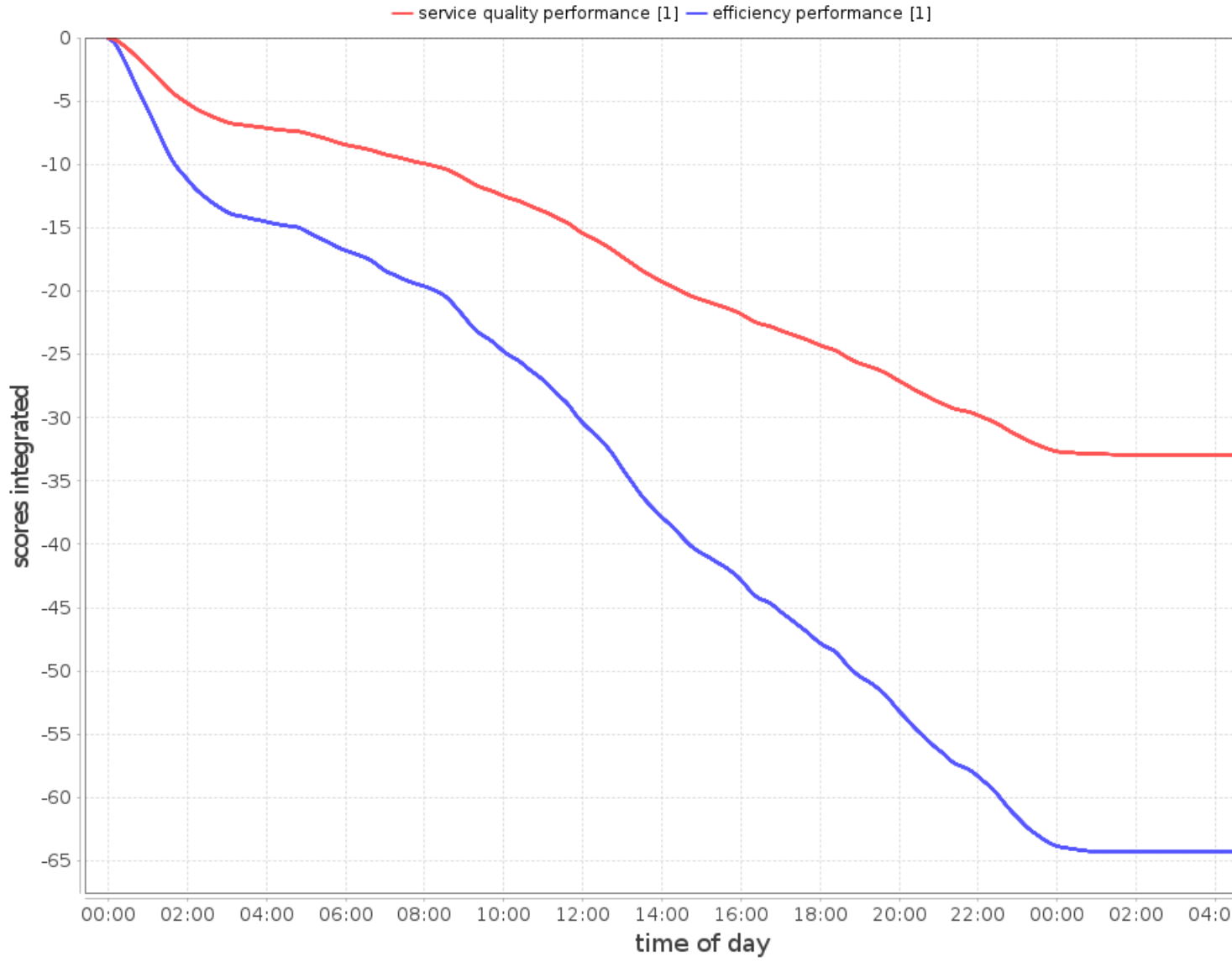🔺 with customer 🔺 pickup 🔺 rebalance 🔺 stay 🔺 off service
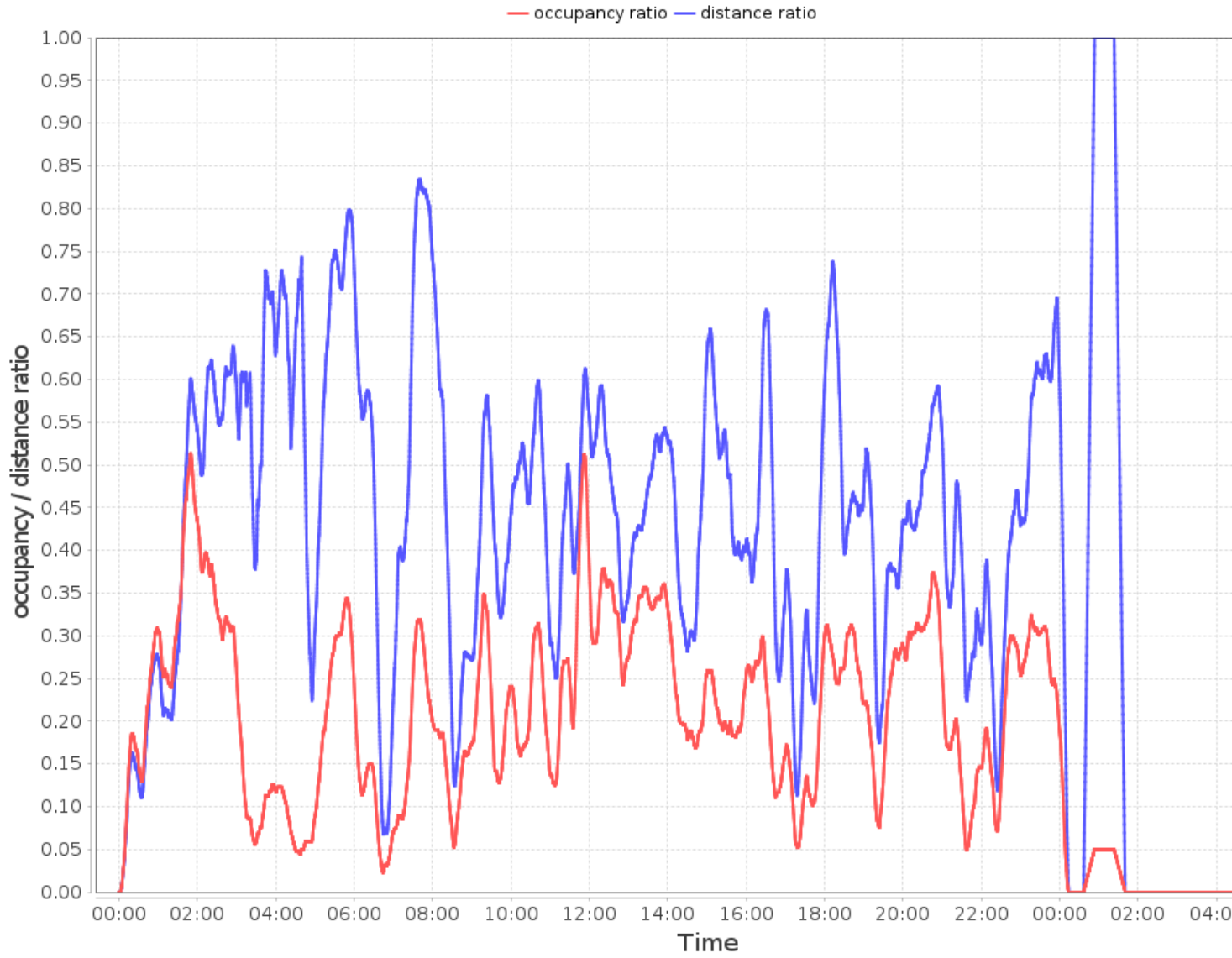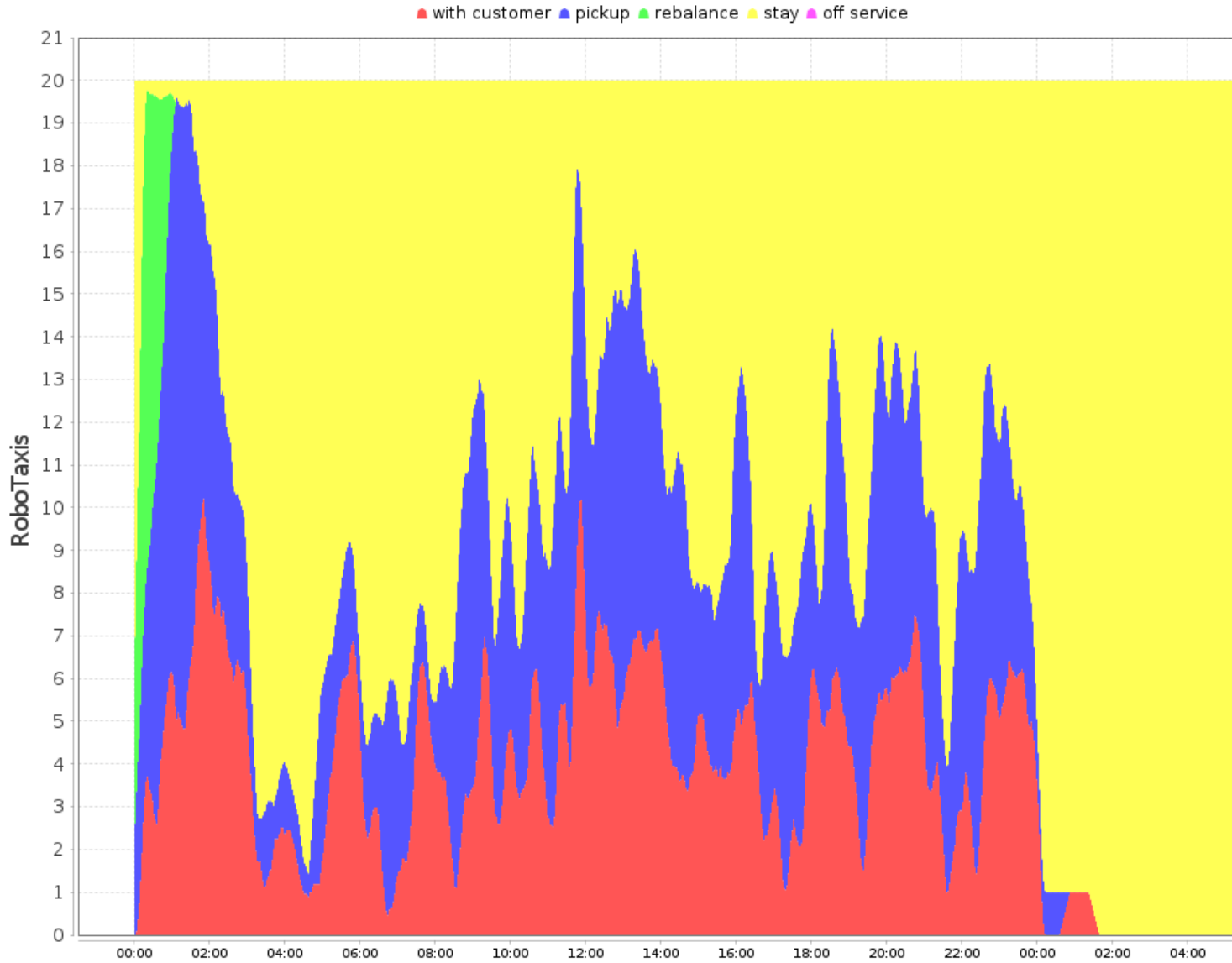
Aido Scores

Scores during Simulation

Service Quality and Efficiency Score Increments

Service Quality and Efficiency Score Integrated

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

scores integrated

time of day

Fleet Size Score Integrated
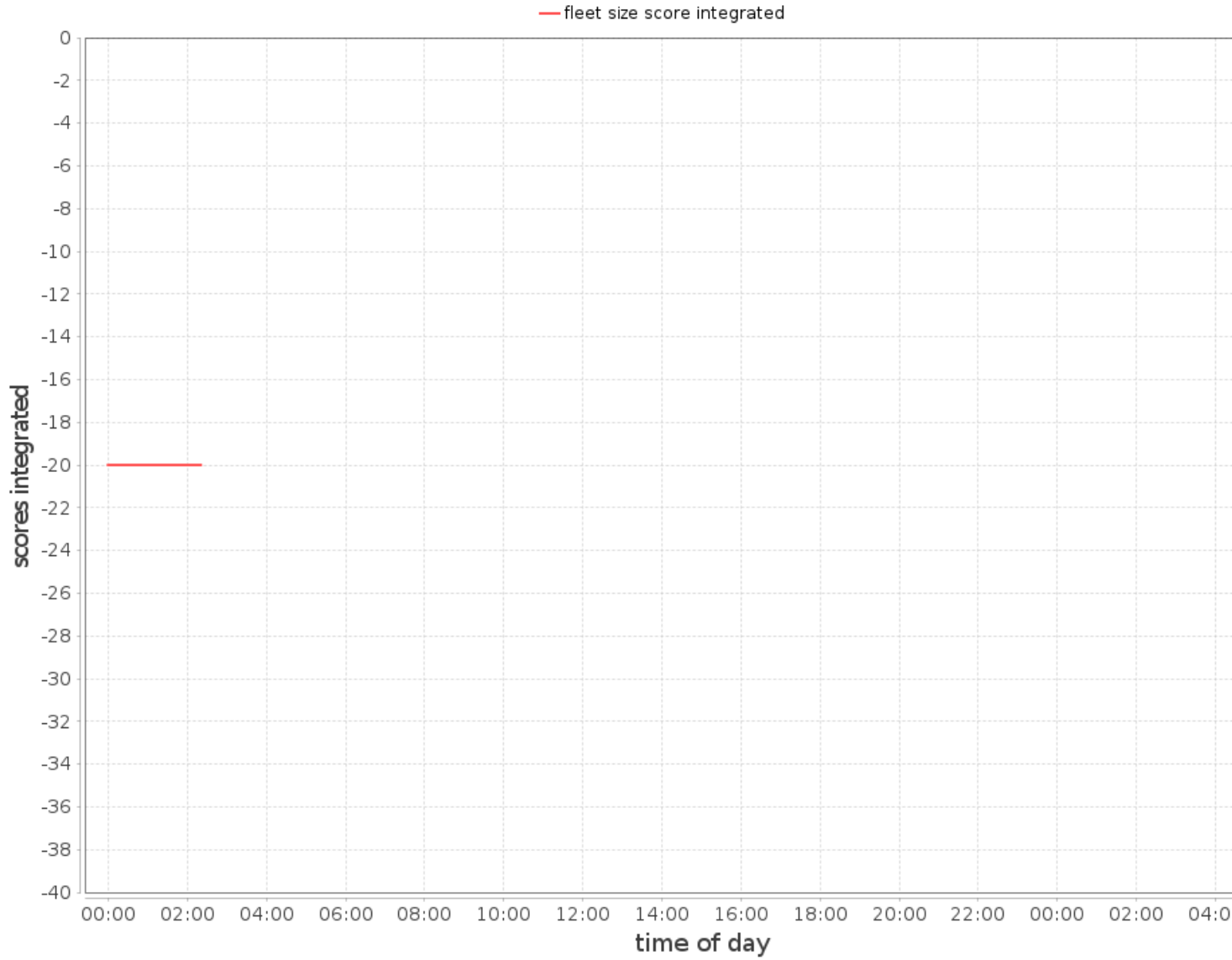
Final Scores

final service quality score:	-32.91514582794956
final efficiency score:	-64.27898331179803
final fleet size score:	-Infinity