AMoDeus Simulation Report

Simulation Information

User:	root
Timestamp:	2018/12/01 - 23:33:30
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

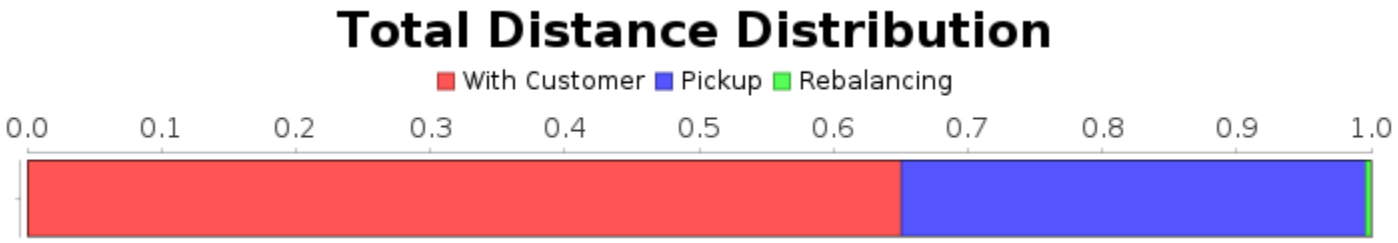
Aggregated Results

Distance Ratio:	65.07%
Occupancy Ratio:	17.86 %

Distances

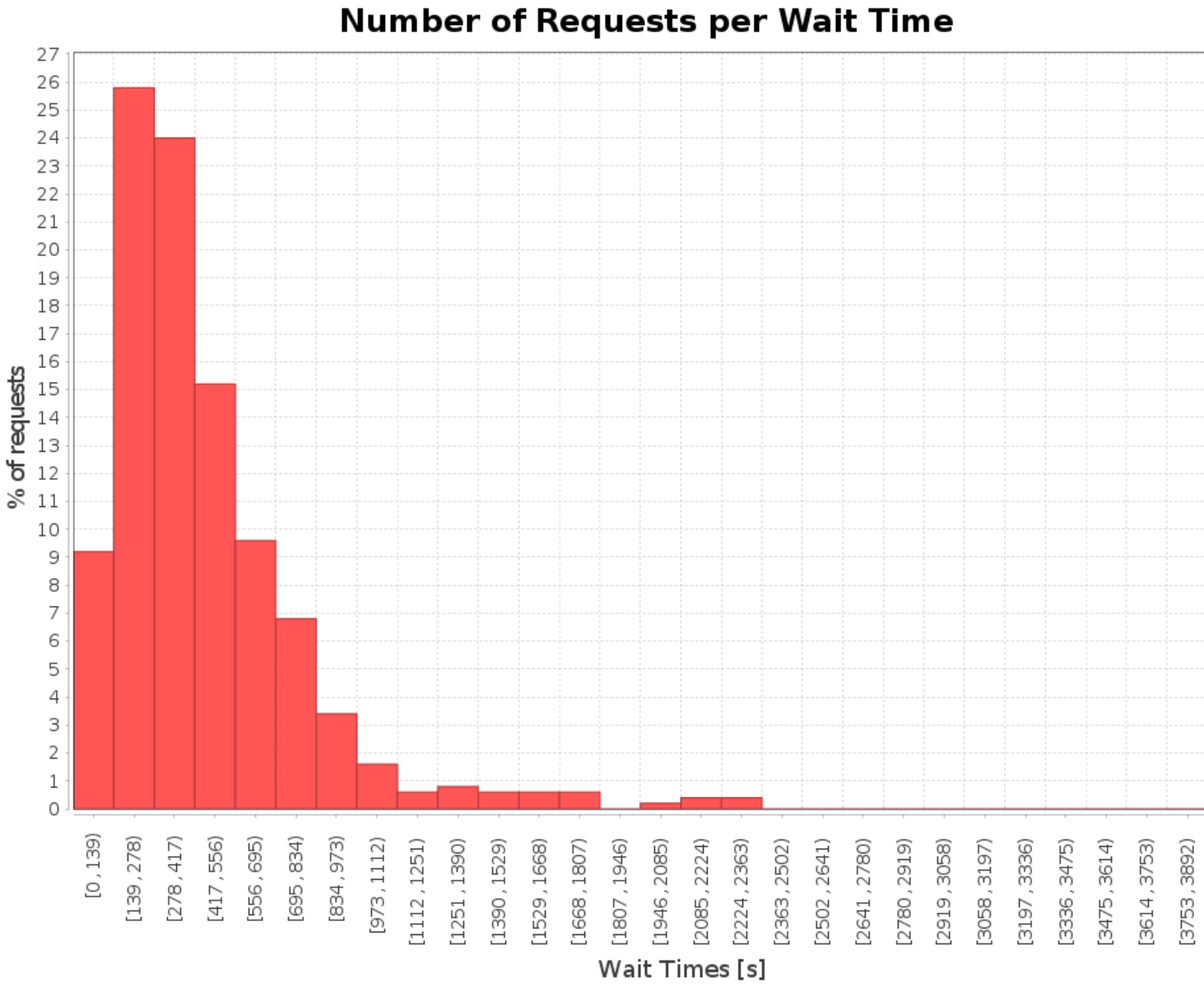
Total:	12588.78 km
Rebalancing:	46.96 km (0.37%)
Pickup:	4350.03 km (34.55%)
With Customer:	8191.79 km (65.07%)

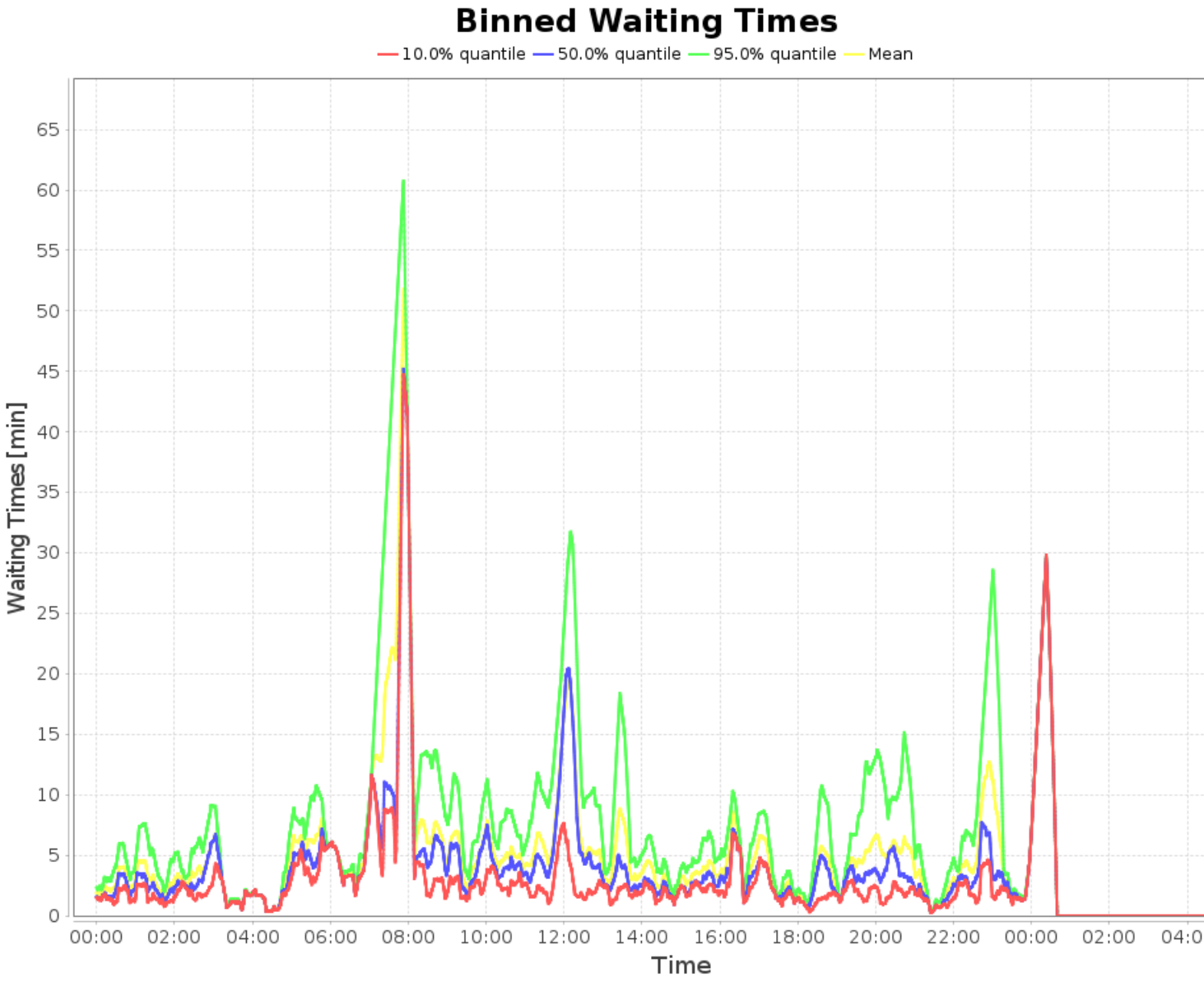
Average Trip Distance:	16.38 km

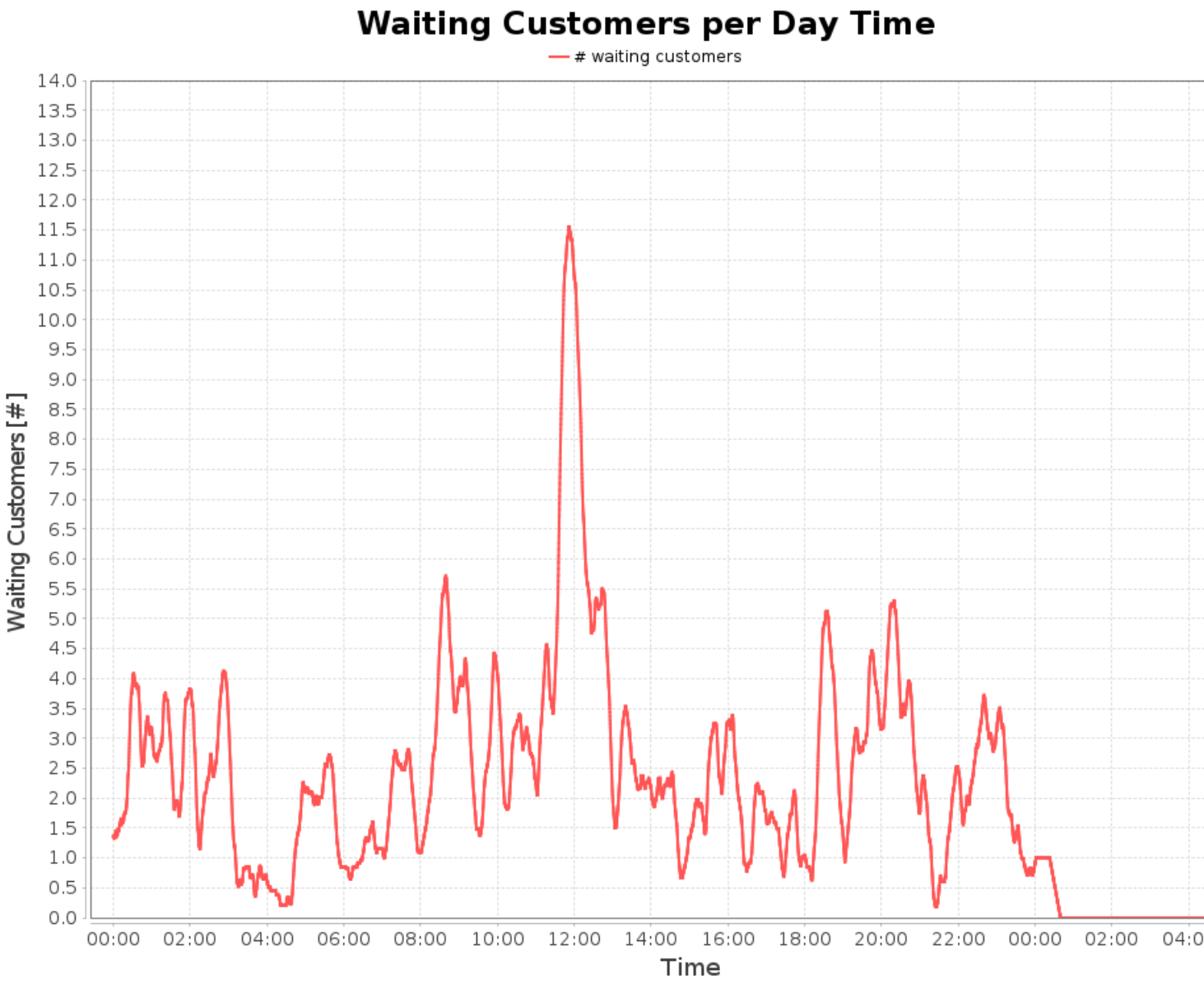


Wait Times

10.0% quantile	00:02:23
50.0% quantile	00:06:06
95.0% quantile	00:17:13
Mean	00:07:32
Maximum:	01:09:16

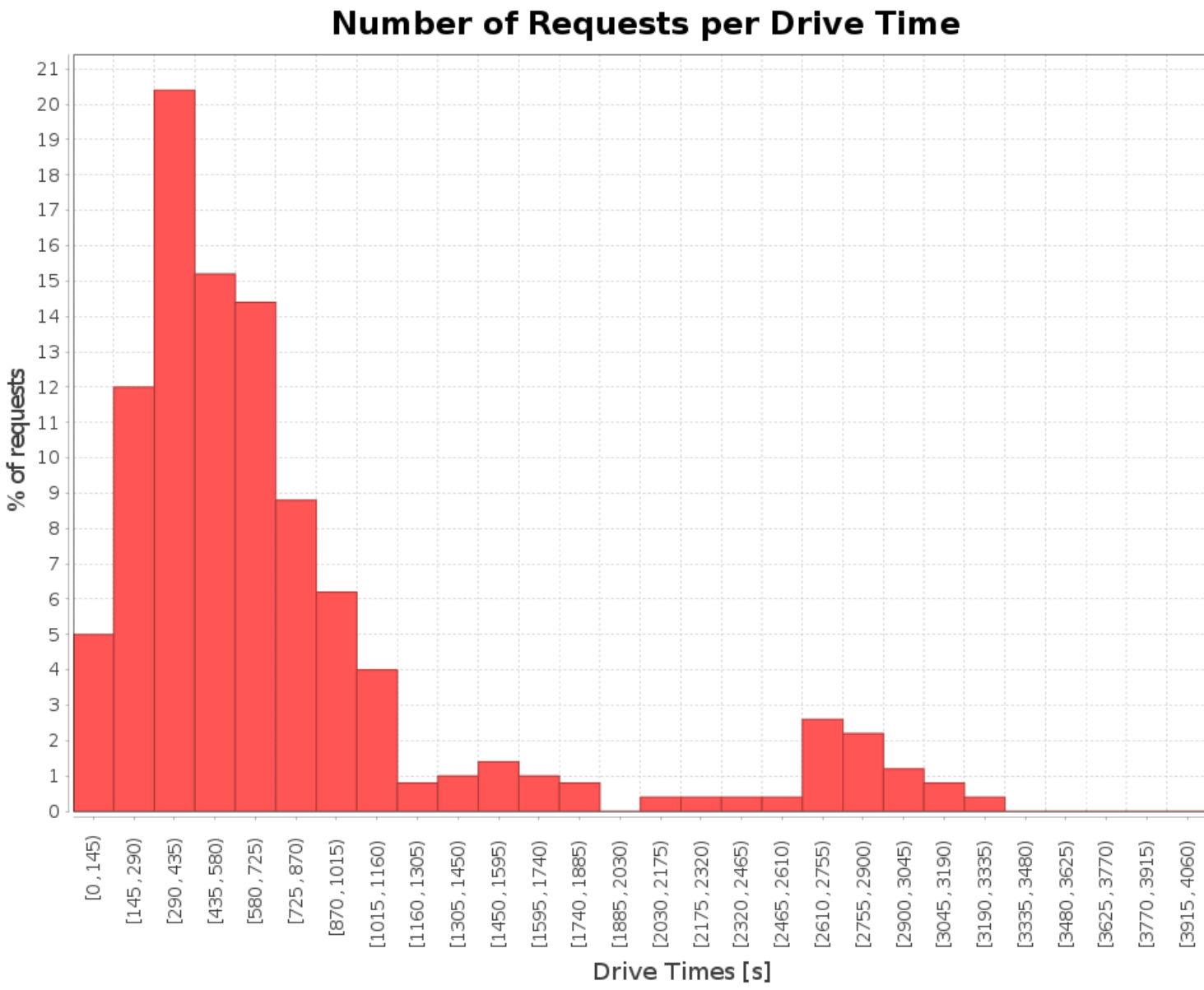

Number of Requests per Wait Time
% of requests
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
[0 , 139)
[139 , 278)
[278 , 417)
[417 , 556)
[556 , 695)
[695 , 834)
[834 , 973)
[973 , 1112)
[1112 , 1251)
[1251 , 1390)
[1390 , 1529)
[1529 , 1668)
[1668 , 1807)
[1807 , 1946)
[1946 , 2085)
[2085 , 2224)
[2224 , 2363)
[2363 , 2502)
[2502 , 2641)
[2641 , 2780)
[2780 , 2919)
[2919 , 3058)
[3058 , 3197)
[3197 , 3336)
[3336 , 3475)
[3475 , 3614)
[3614 , 3753)
[3753 , 3892)
Wait Times [s]


Binned Waiting Times
10.0% quantile
50.0% quantile
95.0% quantile
Mean
Waiting Times [min]
0
5
10
15
20
25
30
35
40
45
50
55
60
65
00:00
02:00
04:00
06:00
08:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
00:00
02:00
04:0
Time



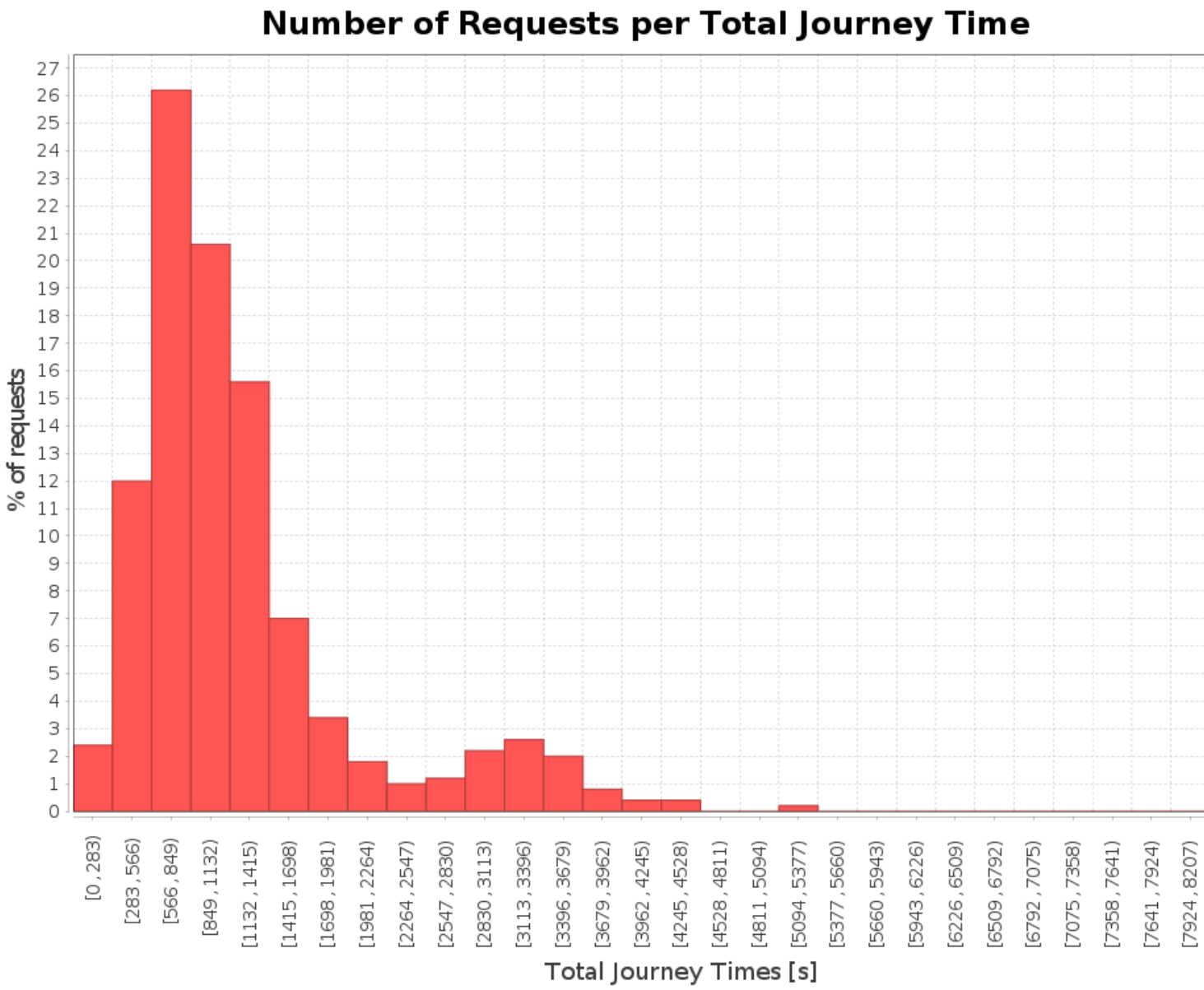
Drive Times

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

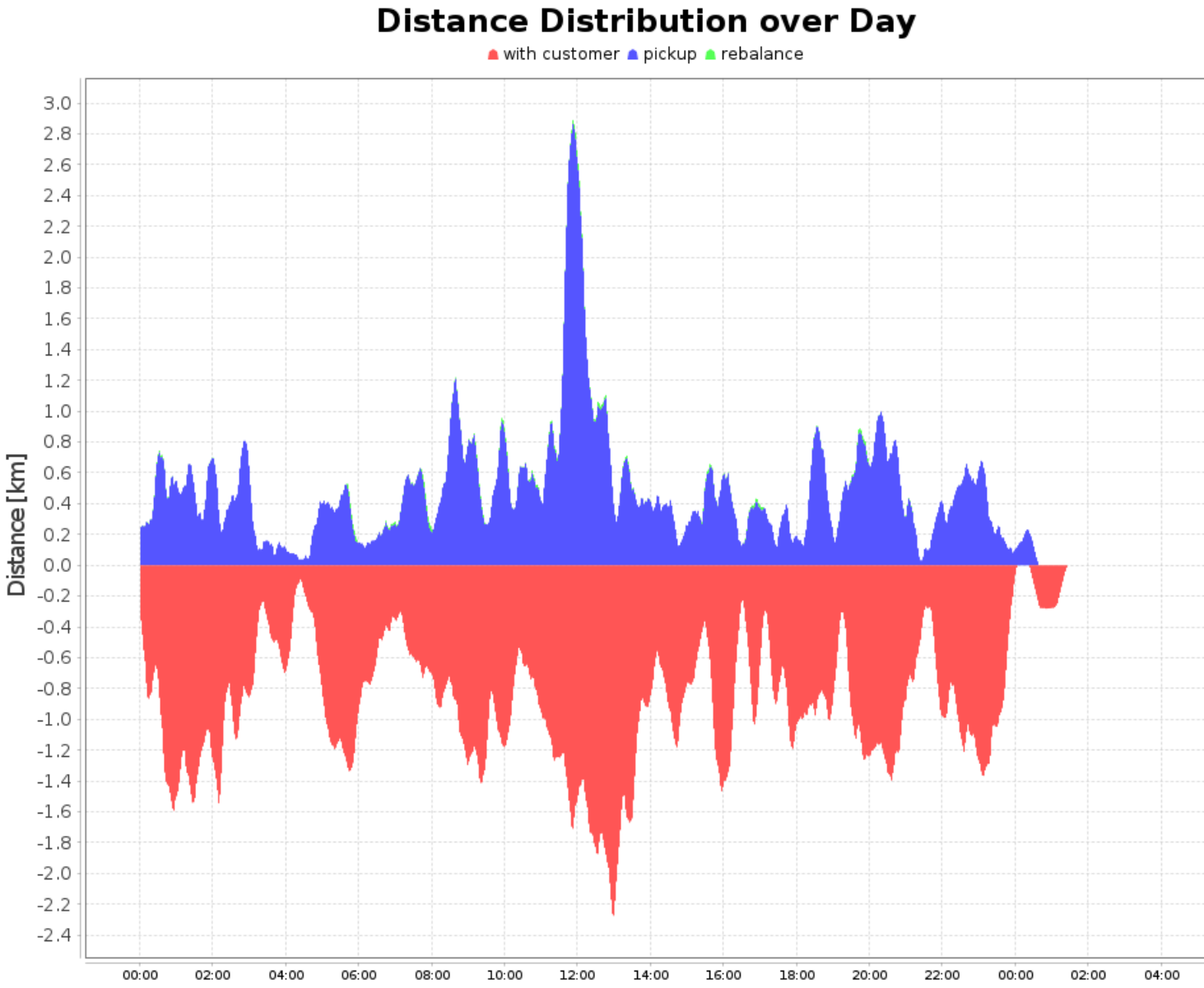


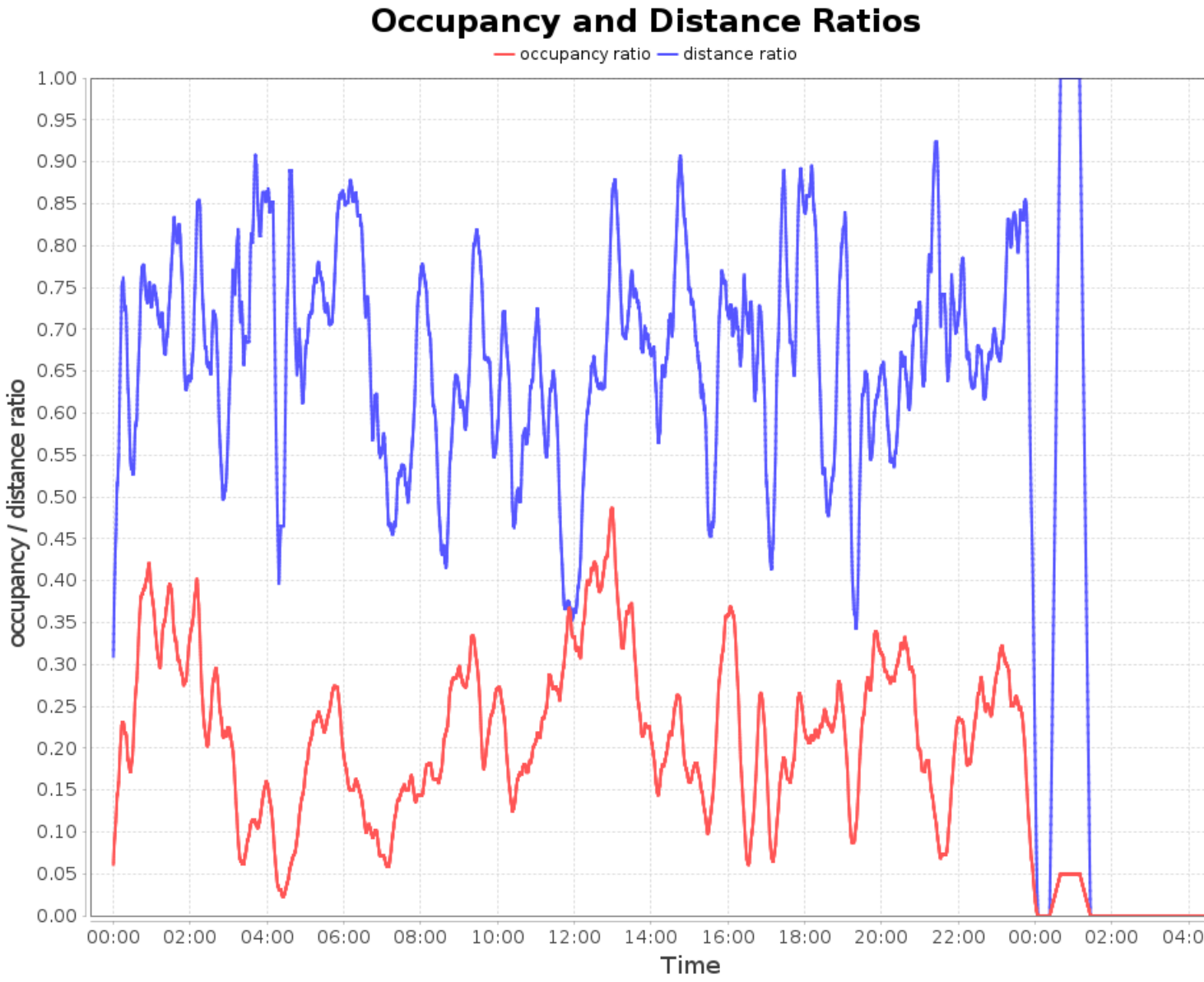
Total Journey Times

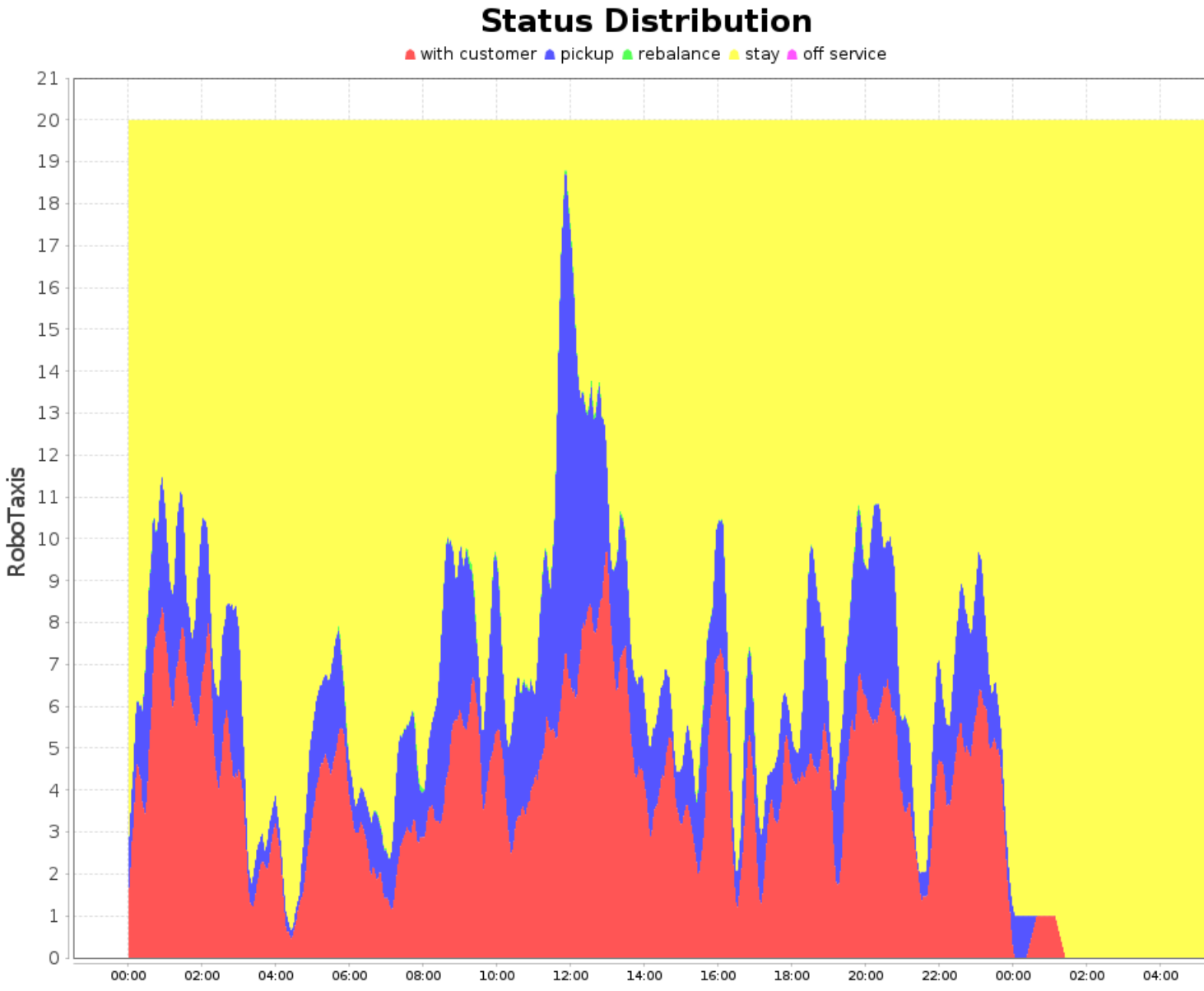
10.0% quantile	00:08:12
50.0% quantile	00:16:36
95.0% quantile	00:55:31
Mean	00:20:23
Maximum:	02:21:36


Number of Requests per Total Journey Time
% of requests
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
[0 , 283)
[283 , 566)
[566 , 849)
[849 , 1132)
[1132 , 1415)
[1415 , 1698)
[1698 , 1981)
[1981 , 2264)
[2264 , 2547)
[2547 , 2830)
[2830 , 3113)
[3113 , 3396)
[3396 , 3679)
[3679 , 3962)
[3962 , 4245)
[4245 , 4528)
[4528 , 4811)
[4811 , 5094)
[5094 , 5377)
[5377 , 5660)
[5660 , 5943)
[5943 , 6226)
[6226 , 6509)
[6509 , 6792)
[6792 , 7075)
[7075 , 7358)
[7358 , 7641)
[7641 , 7924)
[7924 , 8207)
Total Journey Times [s]

Fleet Efficiency

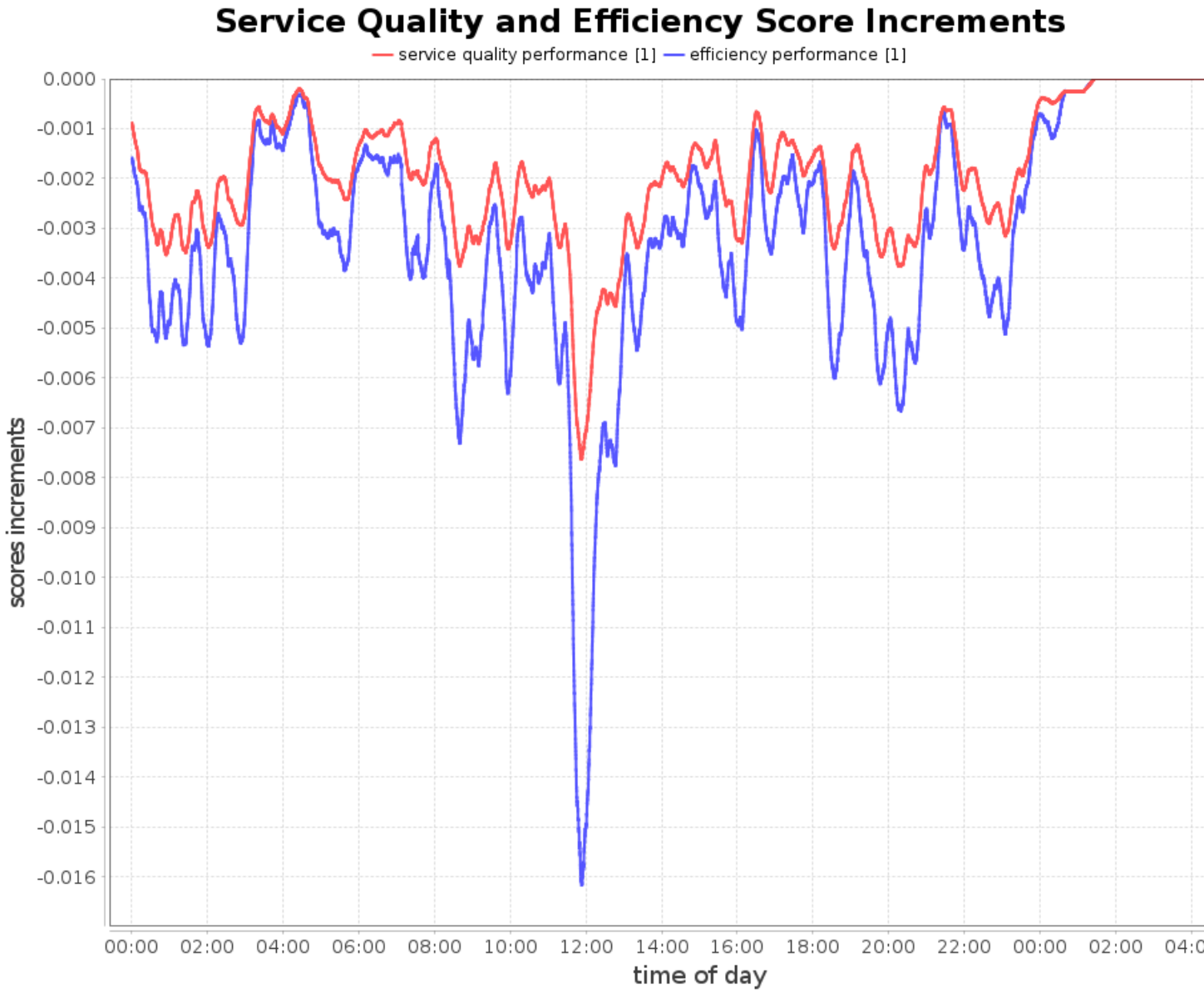


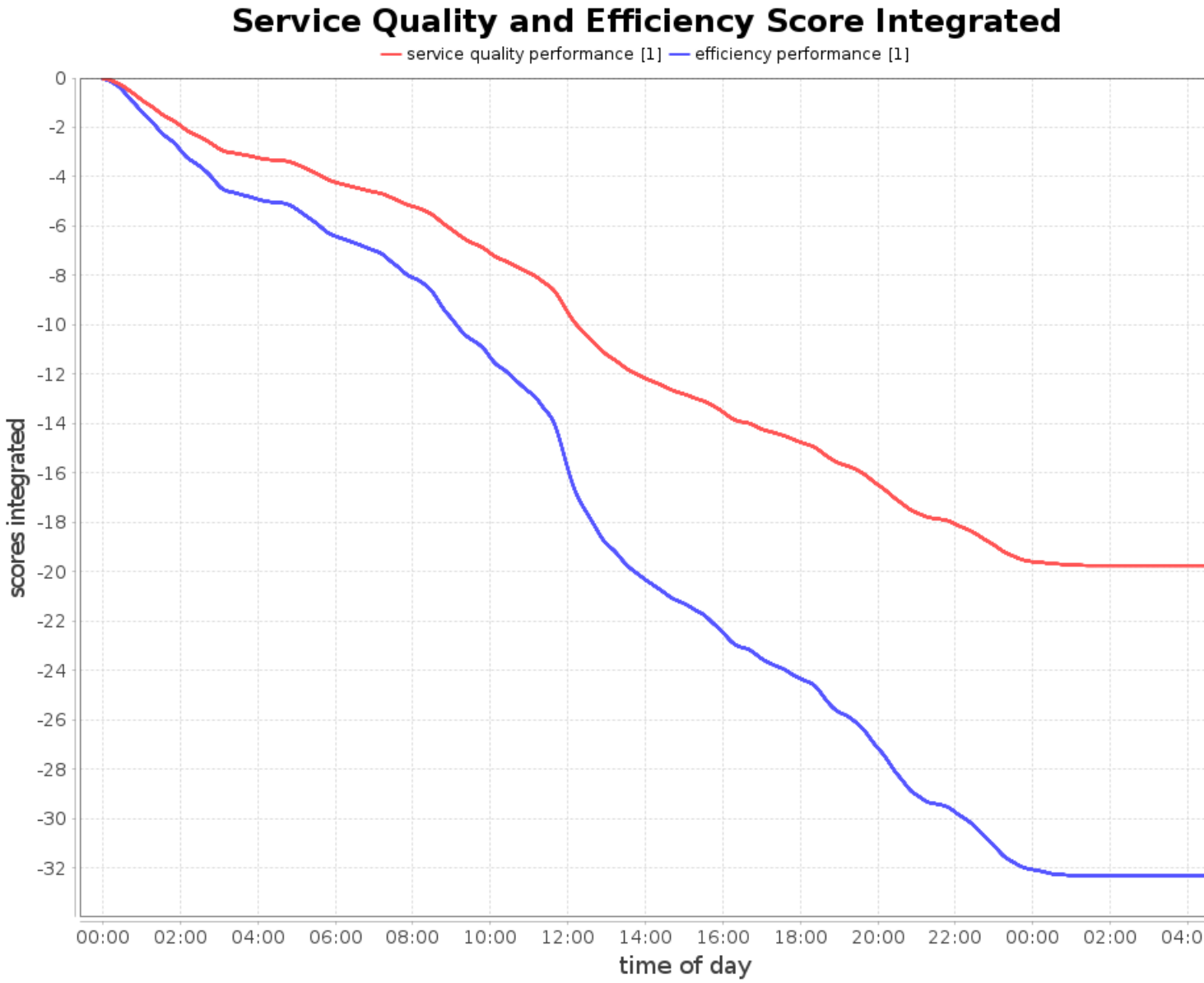

Occupancy and Distance Ratios
occupancy ratio
distance ratio
occupancy / distance ratio
1.00
0.95
0.90
0.85
0.80
0.75
0.70
0.65
0.60
0.55
0.50
0.45
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
00:00
02:00
04:00
06:00
08:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
00:00
02:00
04:0
Time

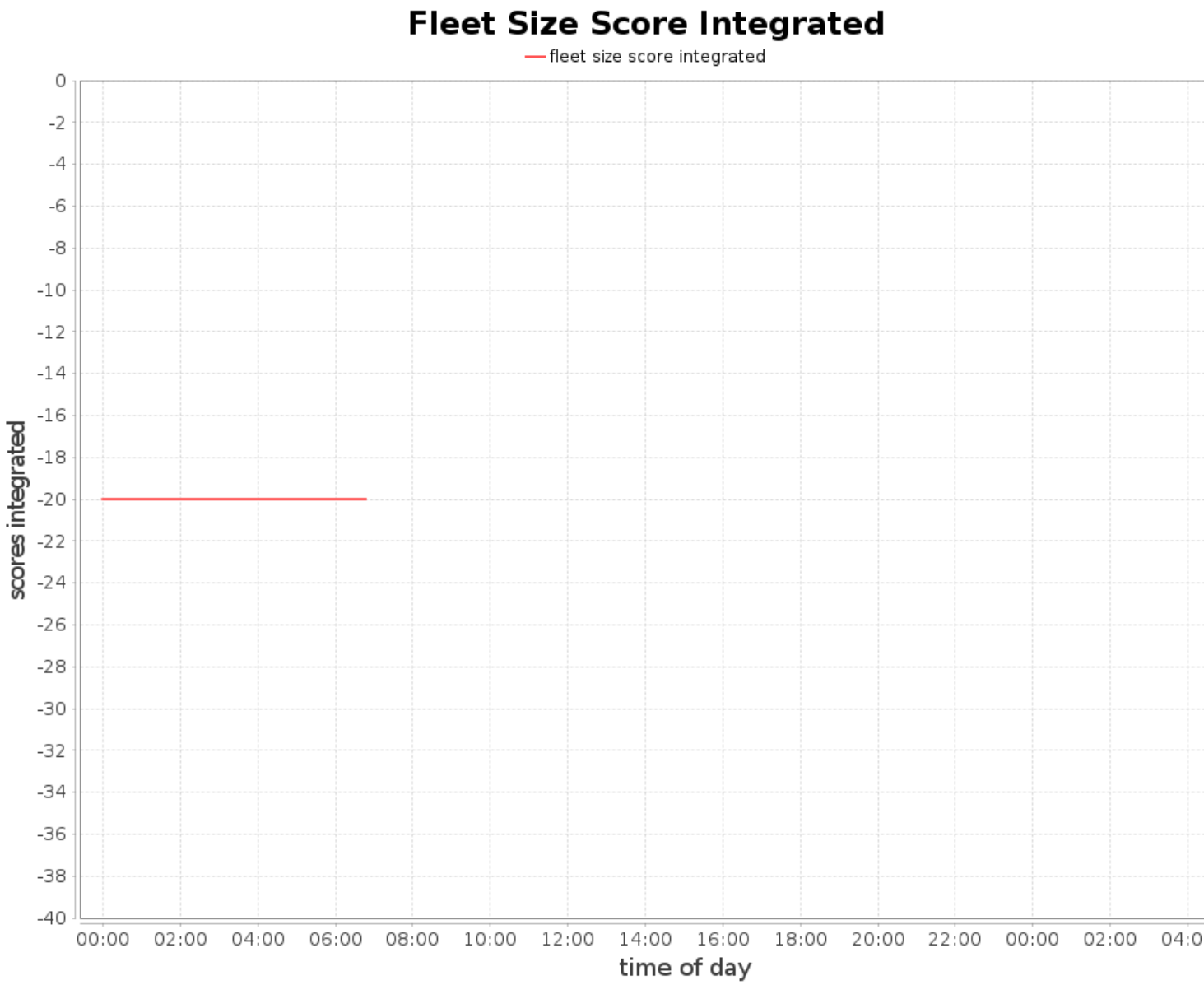


Aido Scores

Scores during Simulation


Service Quality and Efficiency Score Increments
service quality performance [1]
efficiency performance [1]
scores increments
0.000
-0.001
-0.002
-0.003
-0.004
-0.005
-0.006
-0.007
-0.008
-0.009
-0.010
-0.011
-0.012
-0.013
-0.014
-0.015
-0.016
00:00
02:00
04:00
06:00
08:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
00:00
02:00
time of day


Service Quality and Efficiency Score Integrated
service quality performance [1]
efficiency performance [1]
scores integrated
0
-2
-4
-6
-8
-10
-12
-14
-16
-18
-20
-22
-24
-26
-28
-30
-32
00:00
02:00
04:00
06:00
08:00
10:00
12:00
14:00
16:00
18:00
20:00
22:00
00:00
02:00
04:0
time of day



Final Scores

final service quality score:	-19.745990266229462
final efficiency score:	-32.32300106491542
final fleet size score:	-Infinity