AMoDeus Simulation Report

Simulation Information

User:	root
Timestamp:	2018/12/01 - 23:15:12
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

Total Distance Distribution
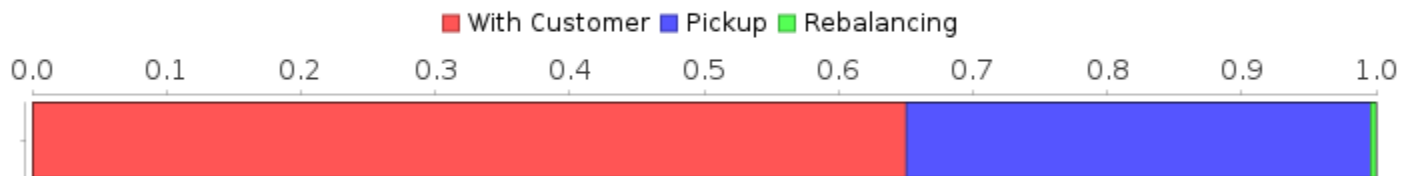
Wait Times

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

A histogram titled "Number of Requests per Wait Time" with the y-axis labeled "% of requests" ranging from 0 to 27, and the x-axis labeled "Wait Times [s]" with the following bins:

Wait Time Bin	% of requests
[0 , 139)	~9.2
[139 , 278)	~25.8
[278 , 417)	~24.0
[417 , 556)	~15.2
[556 , 695)	~9.6
[695 , 834)	~6.8
[834 , 973)	~3.4
[973 , 1112)	~1.6
[1112 , 1251)	~0.6
[1251 , 1390)	~0.8
[1390 , 1529)	~0.6
[1529 , 1668)	~0.6
[1668 , 1807)	~0.6
[1807 , 1946)	0
[1946 , 2085)	~0.2
[2085 , 2224)	~0.4
[2224 , 2363)	~0.4
[2363 , 2502)	0
[2502 , 2641)	0
[2641 , 2780)	0
[2780 , 2919)	0
[2919 , 3058)	0
[3058 , 3197)	0
[3197 , 3336)	0
[3336 , 3475)	0
[3475 , 3614)	0
[3614 , 3753)	0
[3753 , 3892)	0

Binned Waiting Times

Waiting Customers per Day Time

— # waiting customers
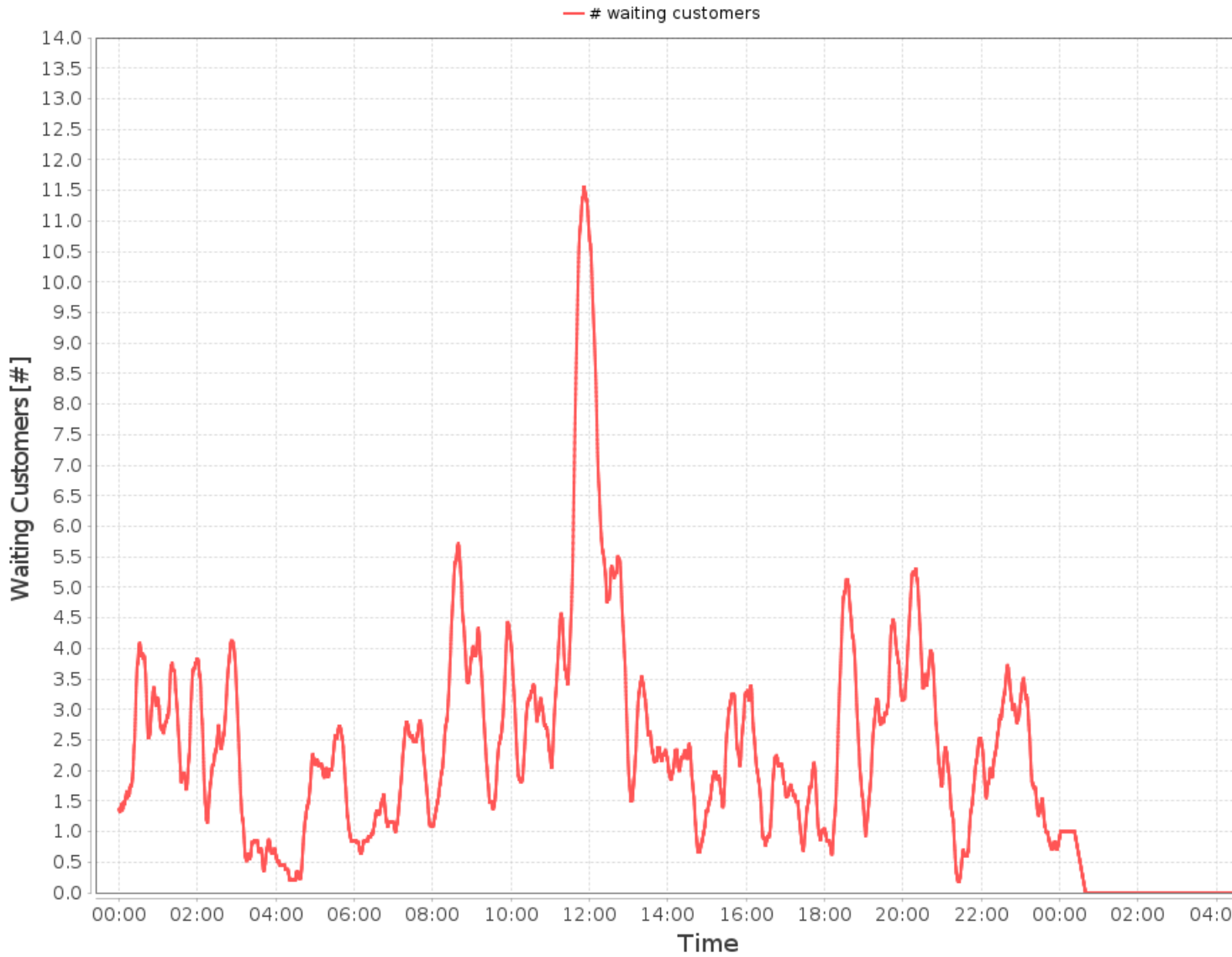
Drive Times

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

Number of Requests per Drive Time
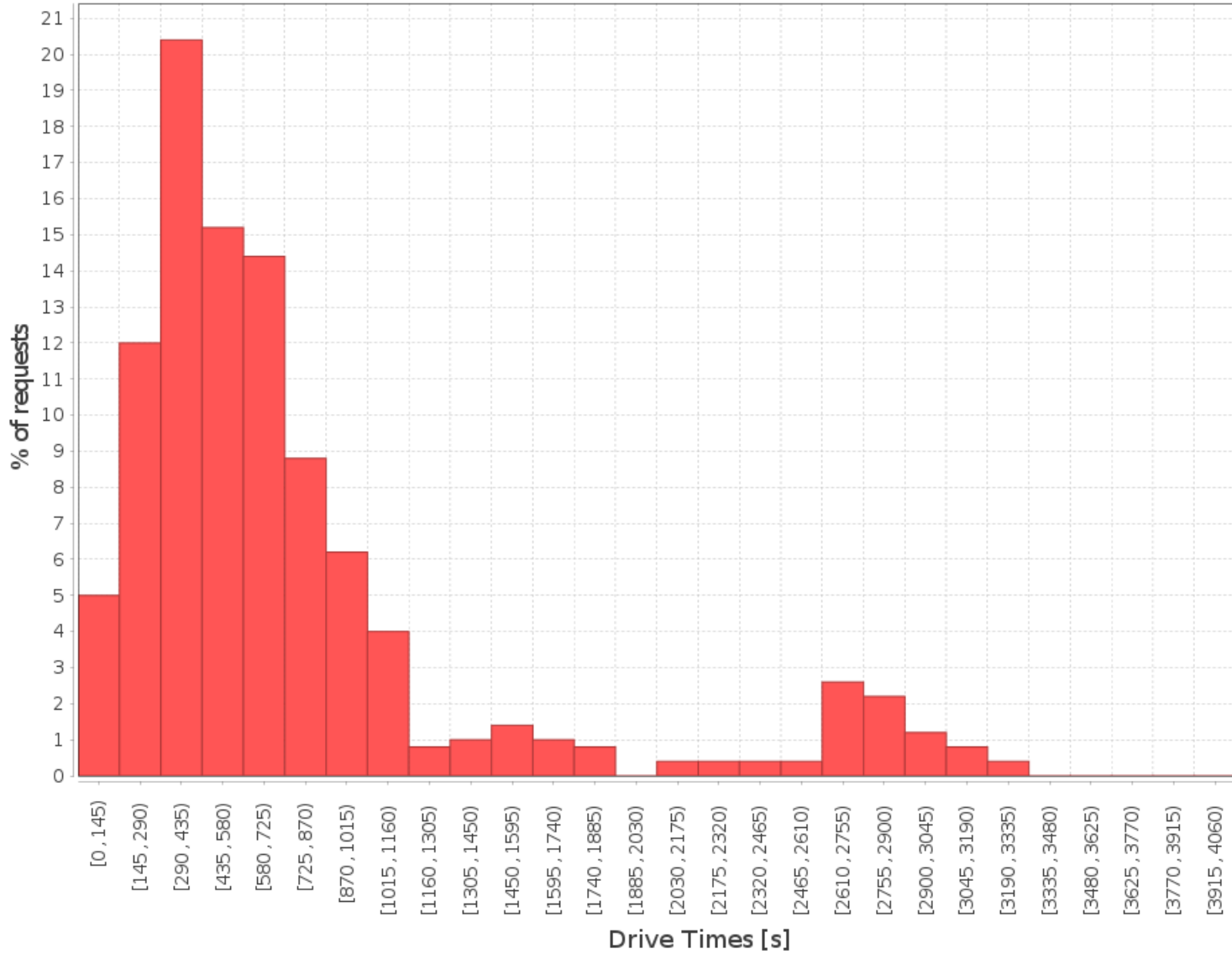
Total Journey Times

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

Total Journey Times [s]

[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)
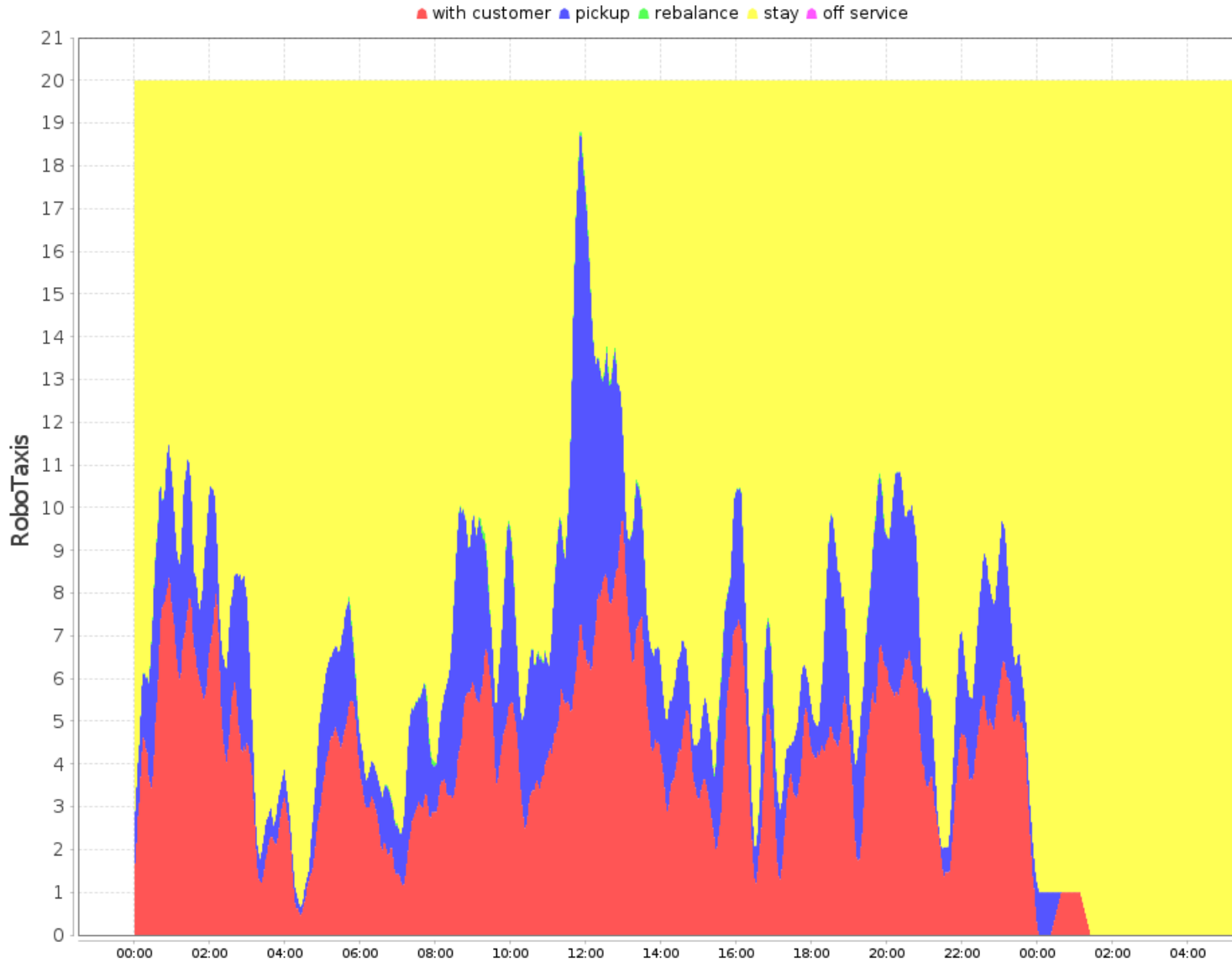[7924 , 8207)
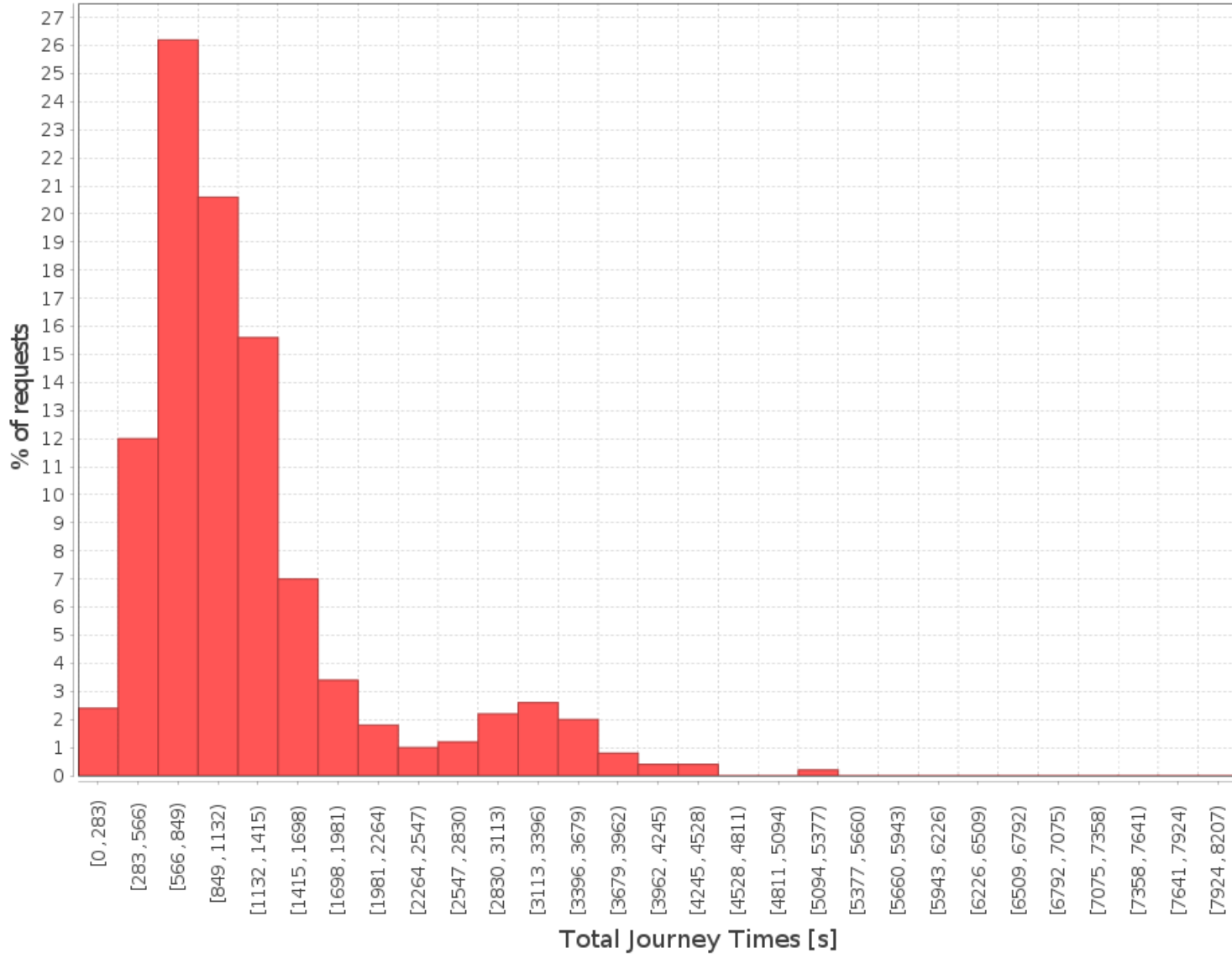
Fleet Efficiency

Distance Distribution over Day
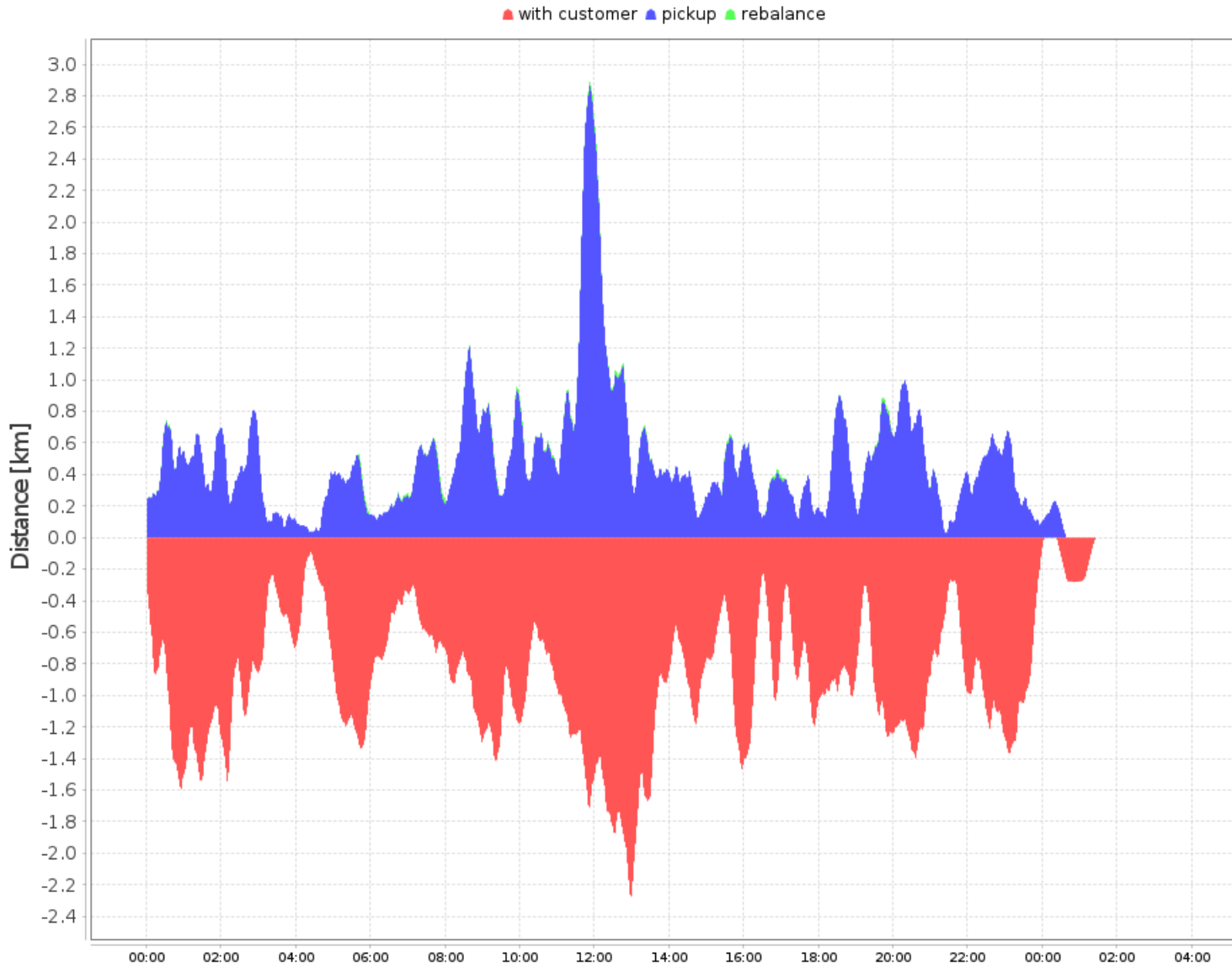
Occupancy and Distance Ratios
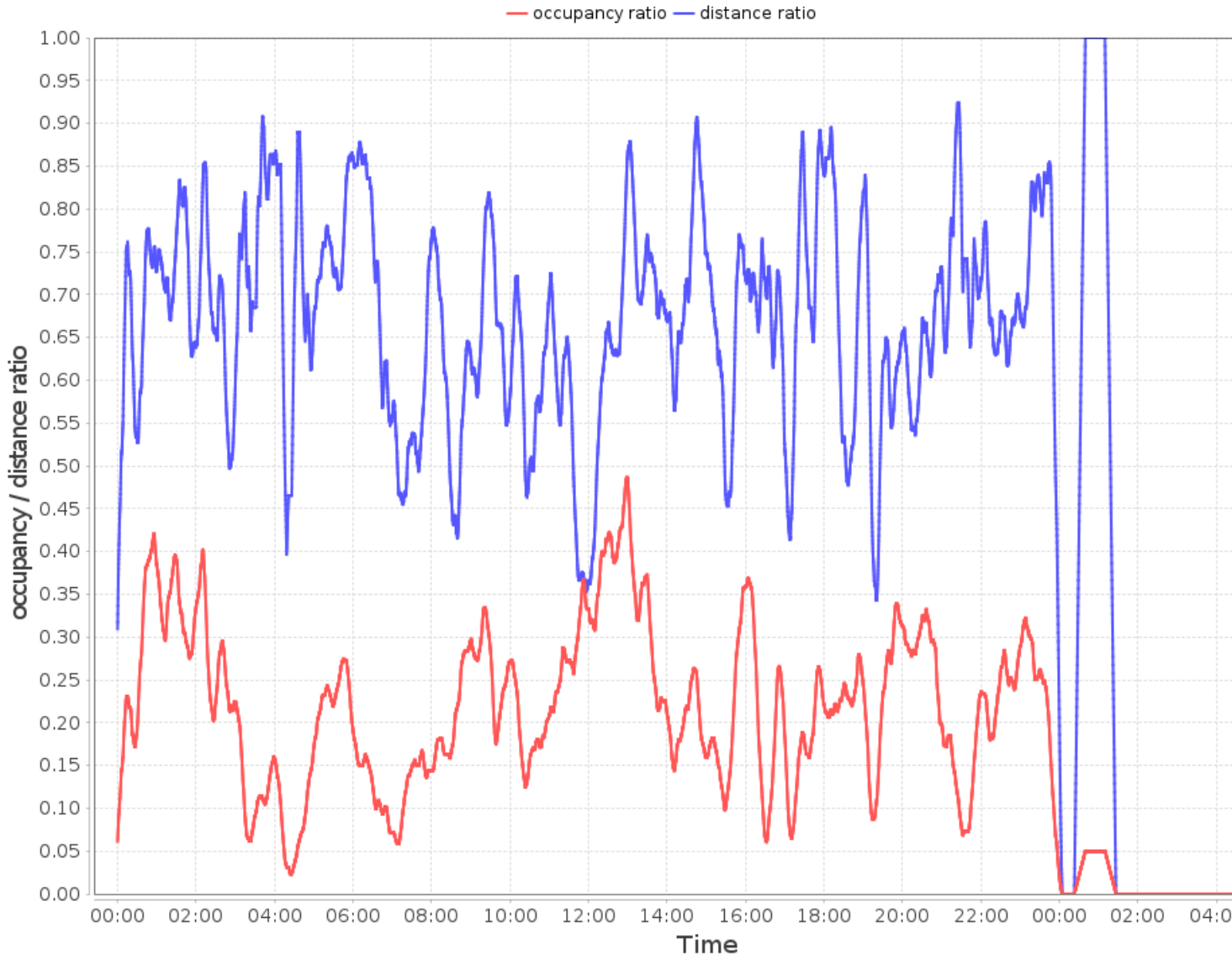
Status Distribution

Aido Scores

Scores during Simulation

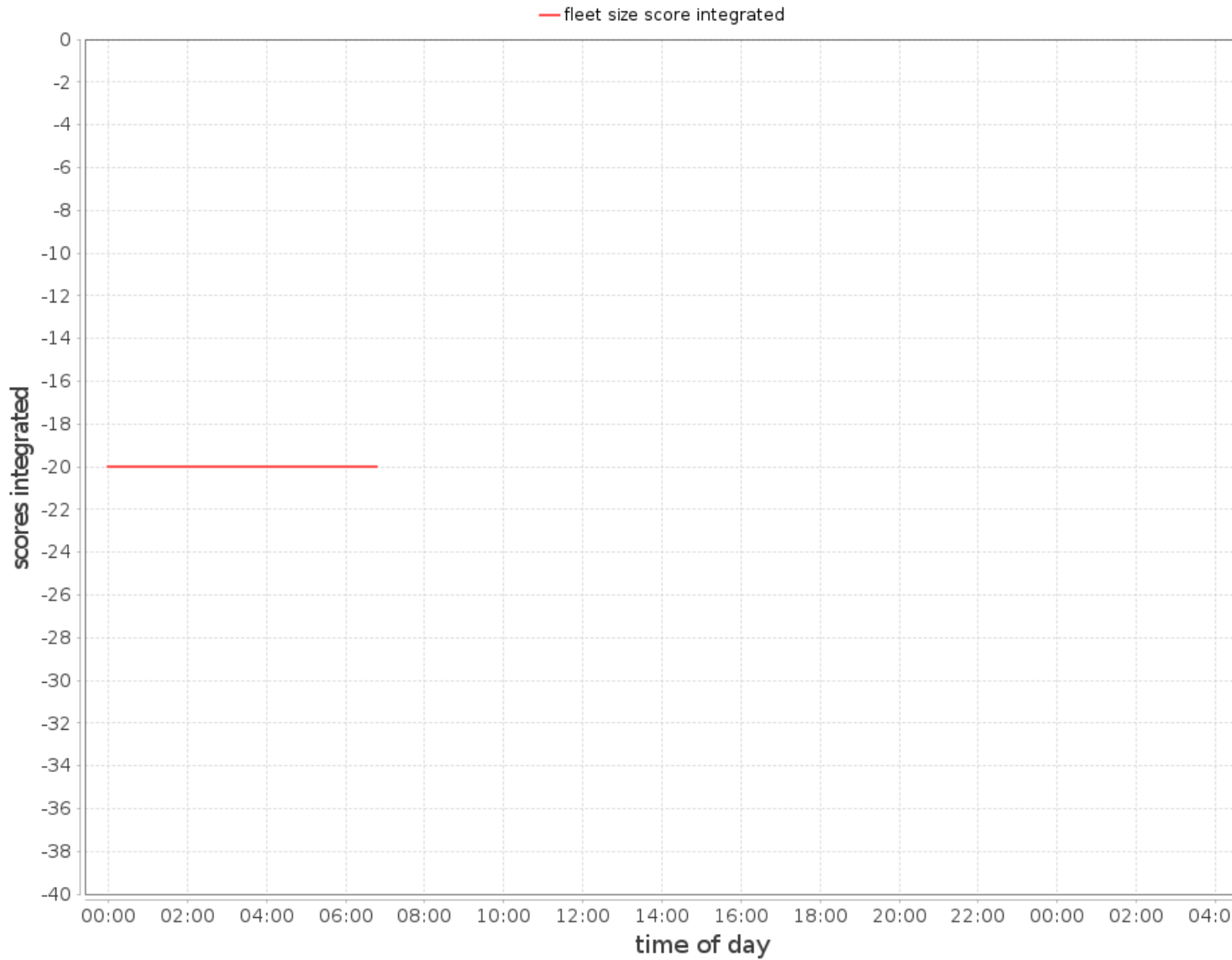# Service Quality and Efficiency Score Increments

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

y-axis: scores increments

x-axis: time of day
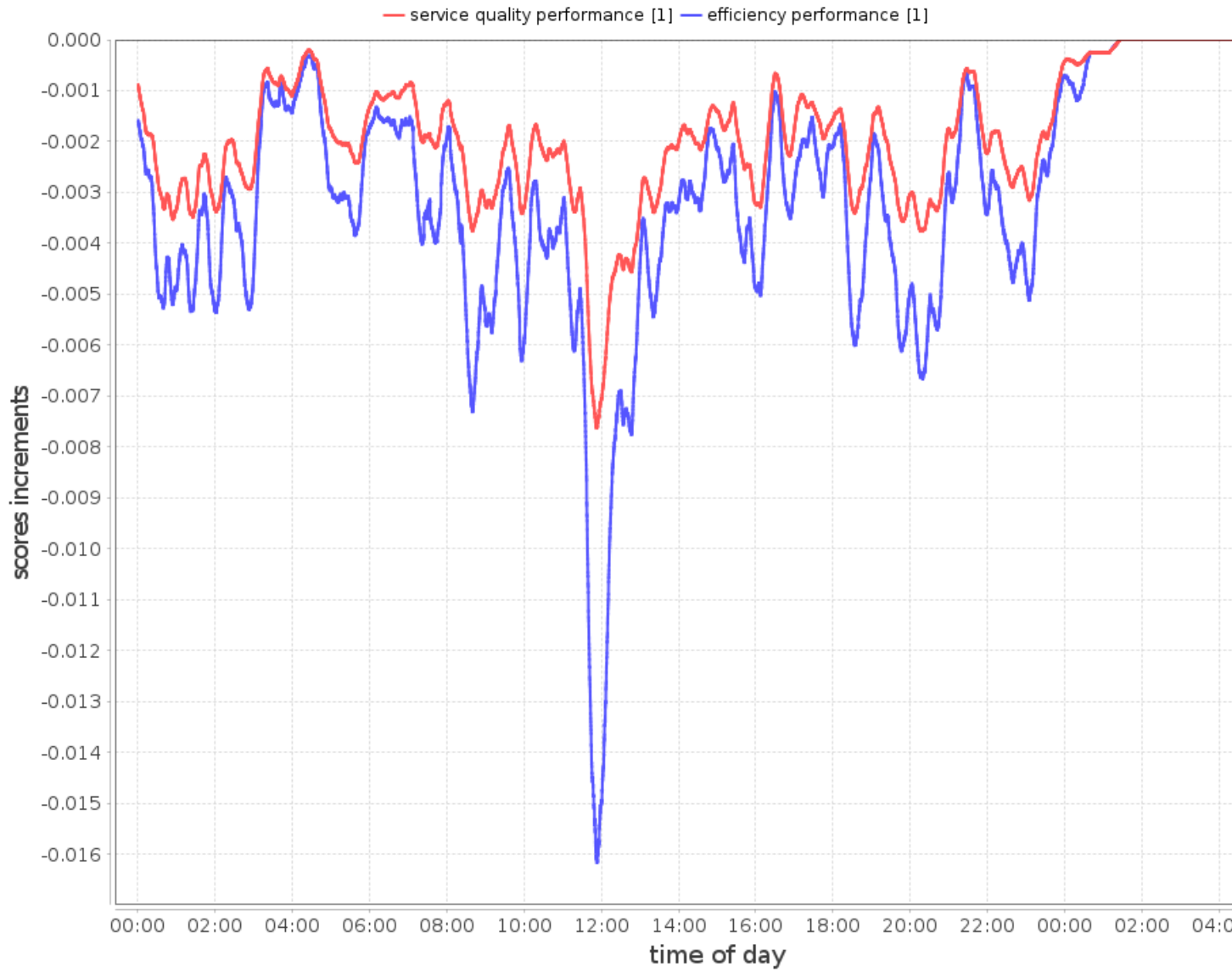
Service Quality and Efficiency Score Integrated

— service quality performance [1] — efficiency performance [1]
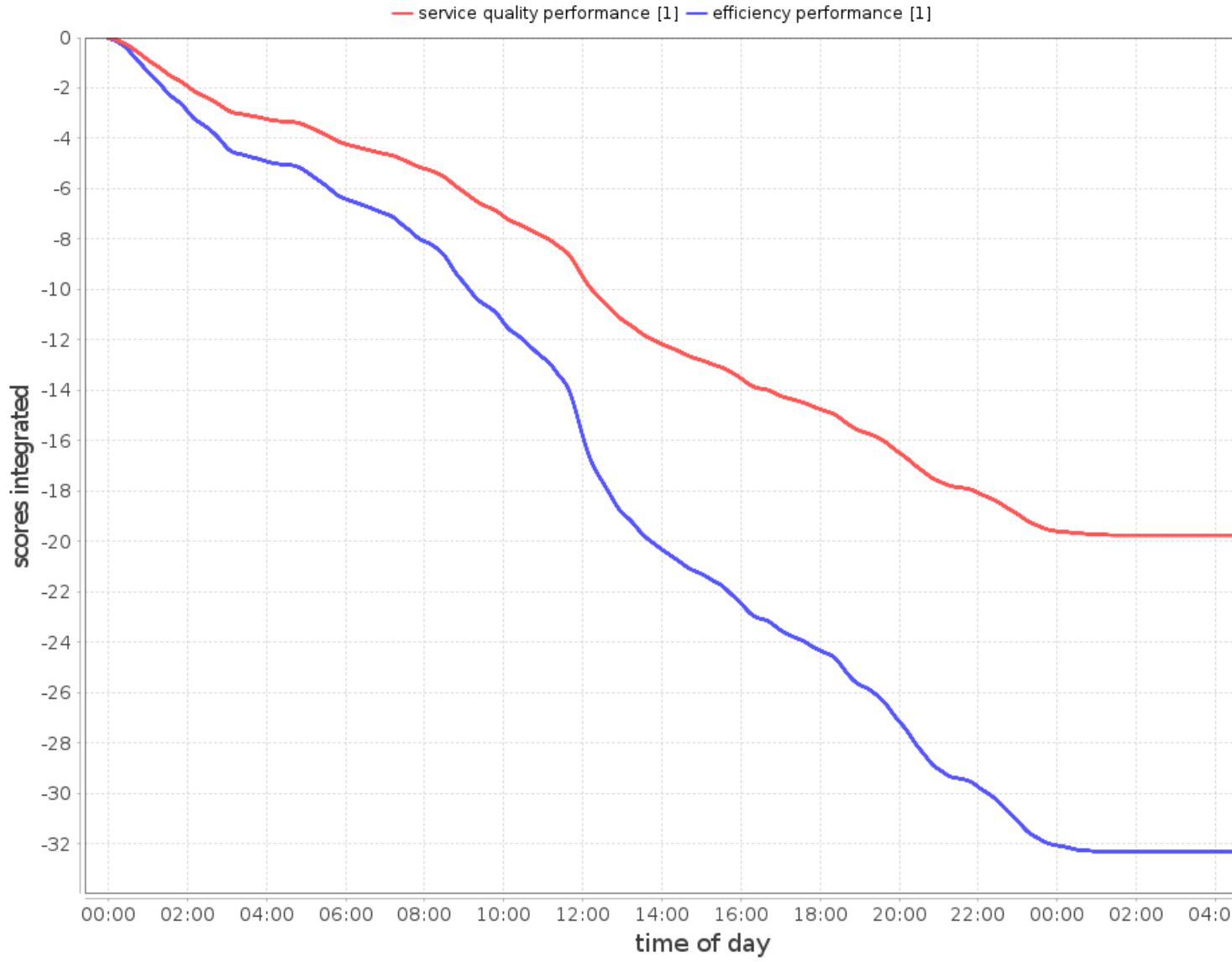
Fleet Size Score Integrated

Final Scores

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