



# AMoDeus Simulation Report

## Simulation Information

|             |                              |
|-------------|------------------------------|
| User:       | root                         |
| Timestamp:  | 2018/12/01 - 16:35:11        |
| 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

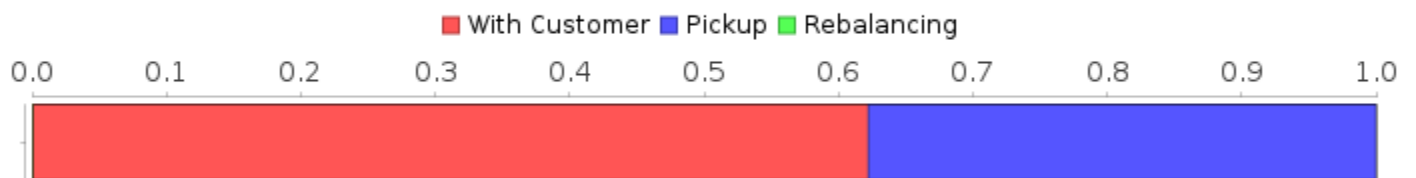
|                  |         |
|------------------|---------|
| Distance Ratio:  | 62.25%  |
| Occupancy Ratio: | 17.86 % |

### Distances

|                |                     |
|----------------|---------------------|
| Total:         | 13168.35 km         |
| Rebalancing:   | 0.00 km (0.00%)     |
| Pickup:        | 4970.87 km (37.75%) |
| With Customer: | 8197.48 km (62.25%) |

|                        |          |
|------------------------|----------|
| Average Trip Distance: | 16.39 km |
|------------------------|----------|

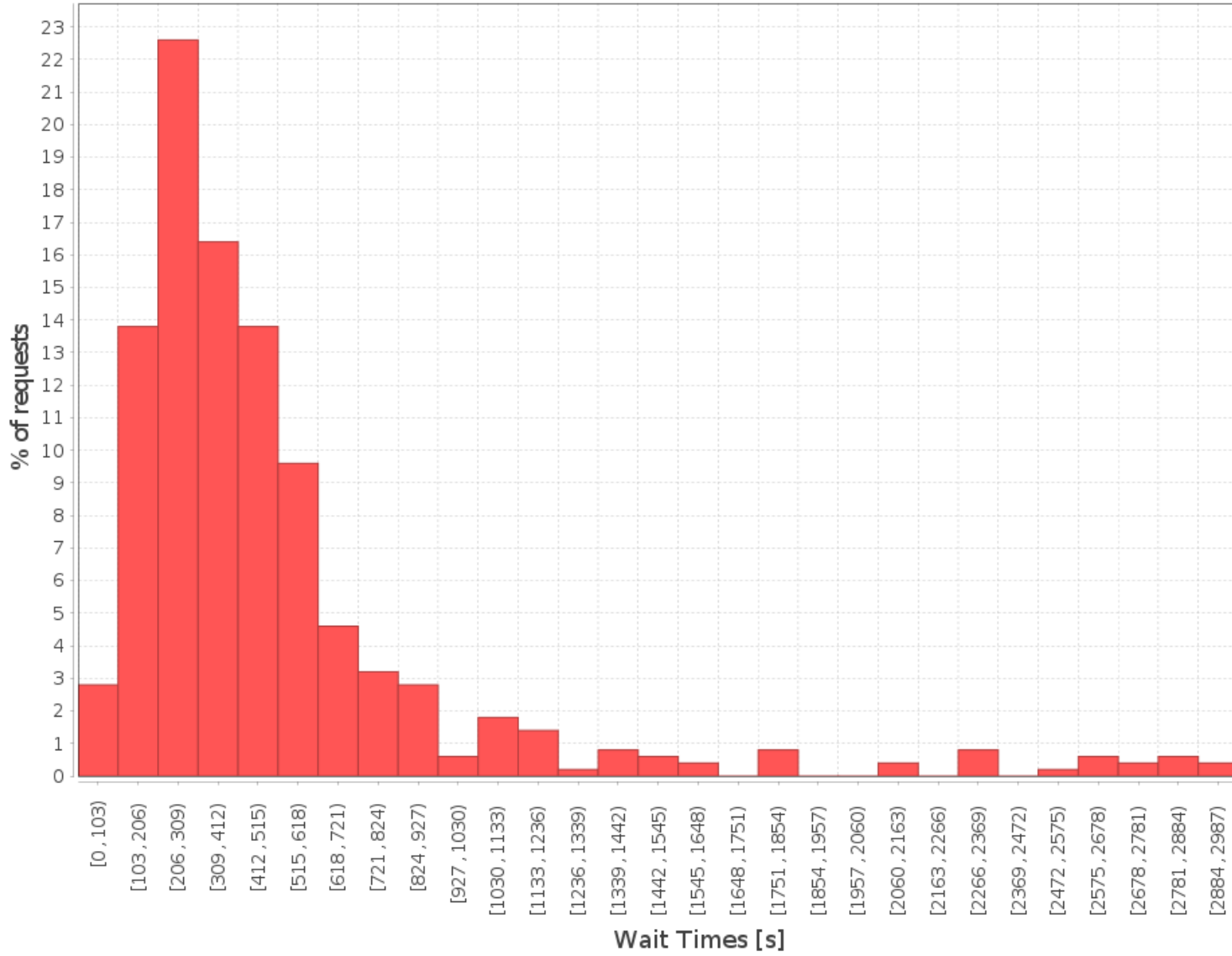
### Total Distance Distribution



### Wait Times

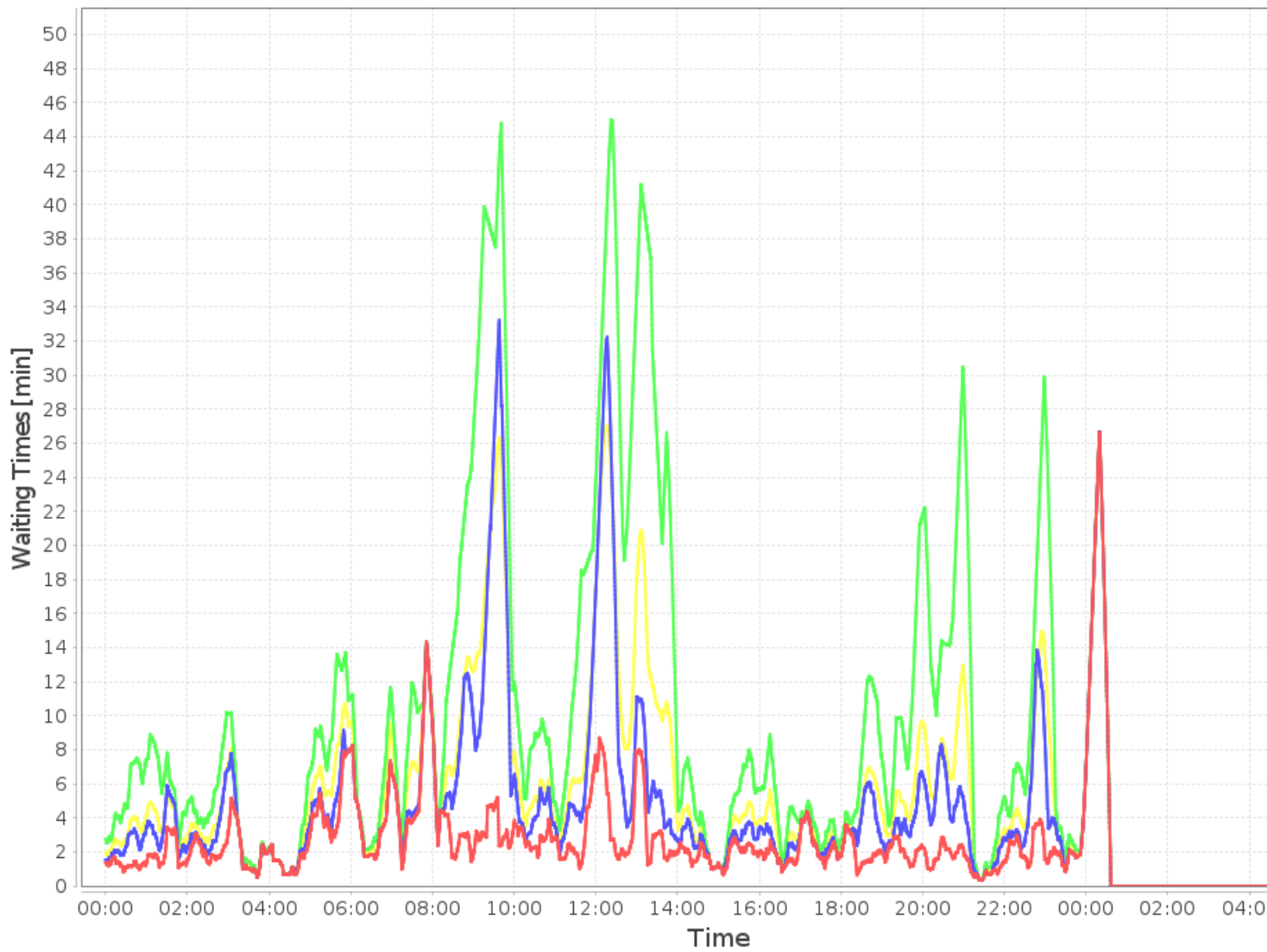
|                |          |
|----------------|----------|
| 10.0% quantile | 00:02:45 |
| 50.0% quantile | 00:06:21 |
| 95.0% quantile | 00:25:15 |
| Mean           | 00:08:44 |
| Maximum:       | 00:51:35 |

# Number of Requests per Wait Time

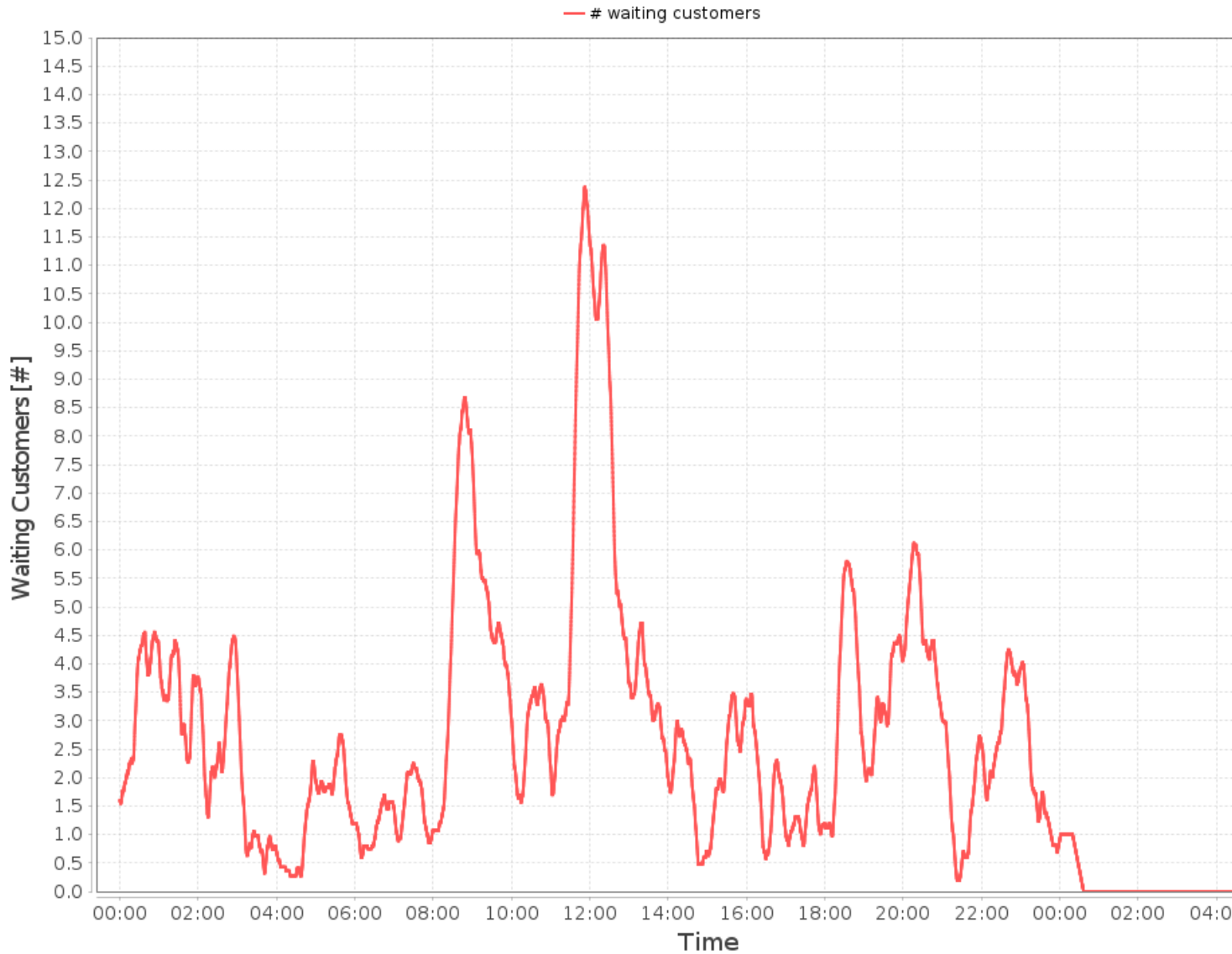


# Binned Waiting Times

10.0% quantile 50.0% quantile 95.0% quantile Mean



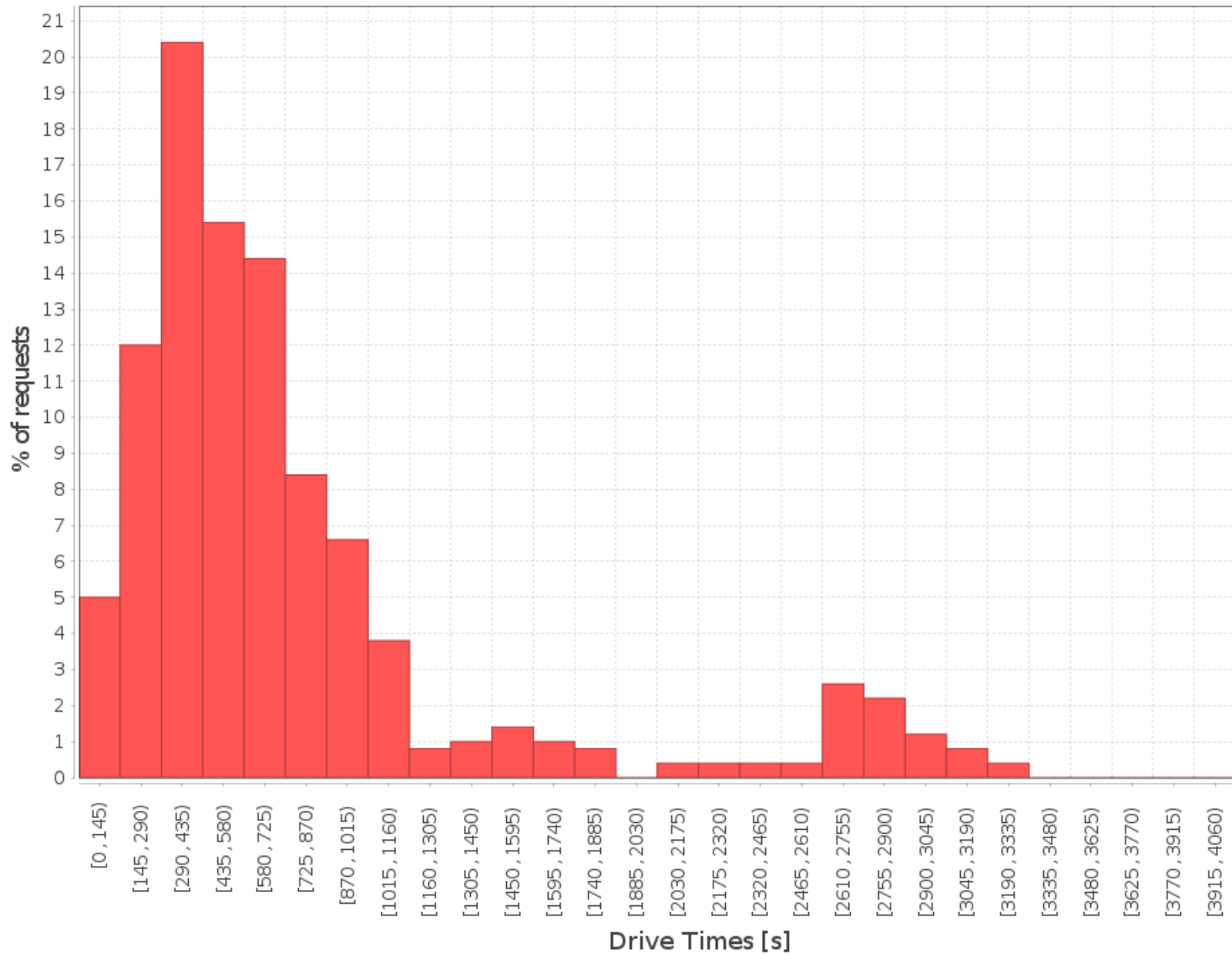
## Waiting Customers per Day Time



### Drive Times

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

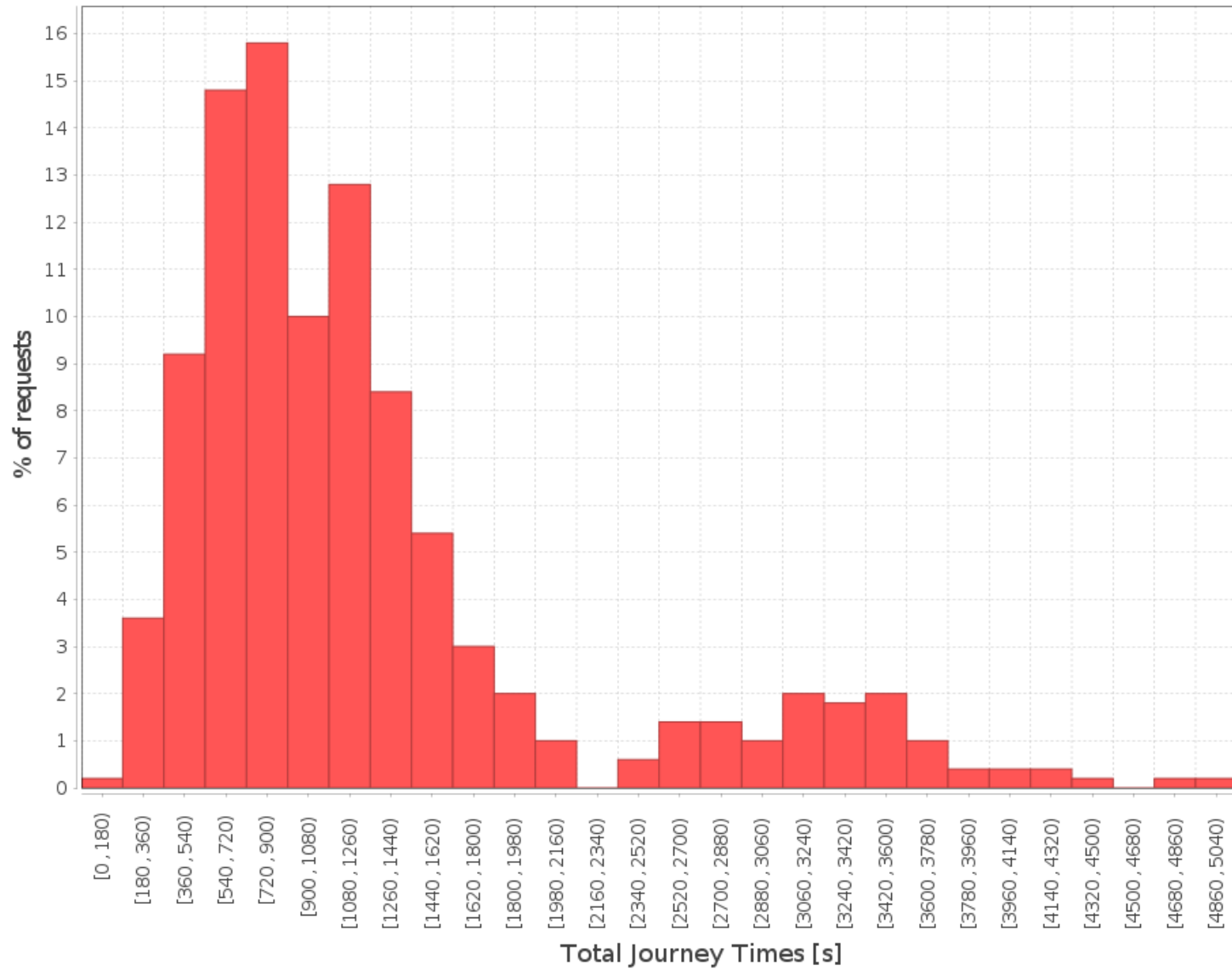
## Number of Requests per Drive Time



### Total Journey Times

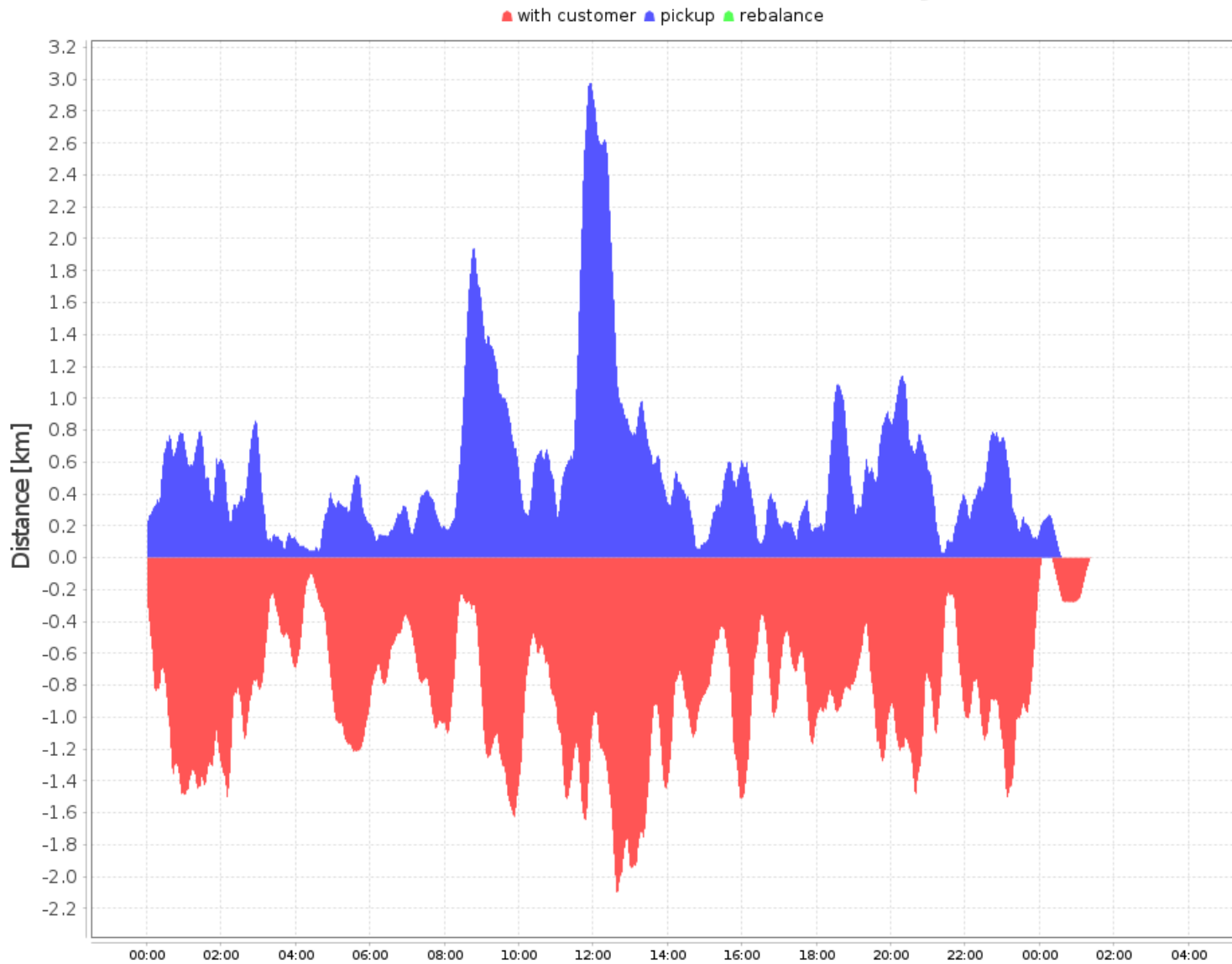
|                |          |
|----------------|----------|
| 10.0% quantile | 00:08:08 |
| 50.0% quantile | 00:16:49 |
| 95.0% quantile | 00:57:21 |
| Mean           | 00:21:35 |
| Maximum:       | 01:29:53 |

**Number of Requests per Total Journey Time**

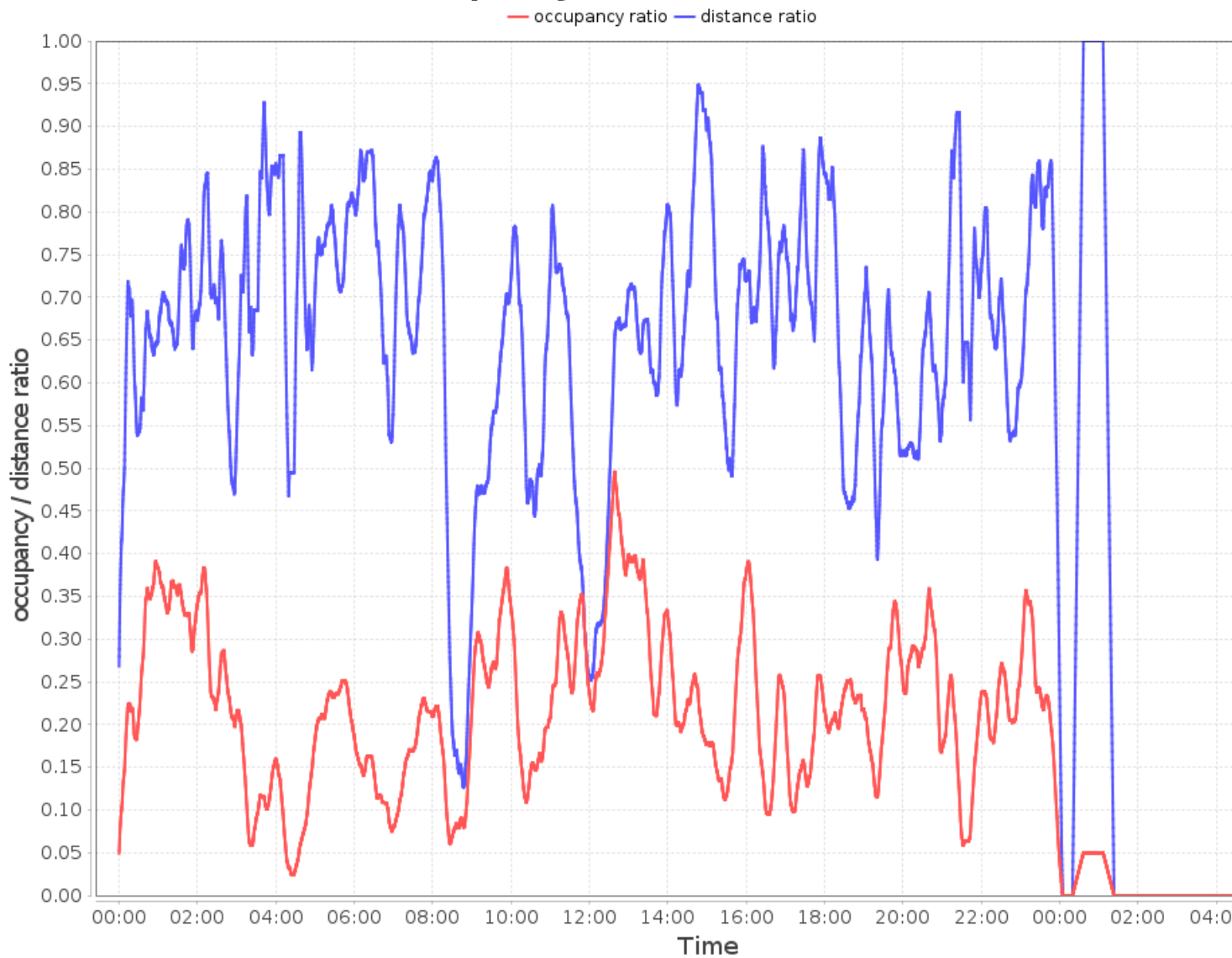


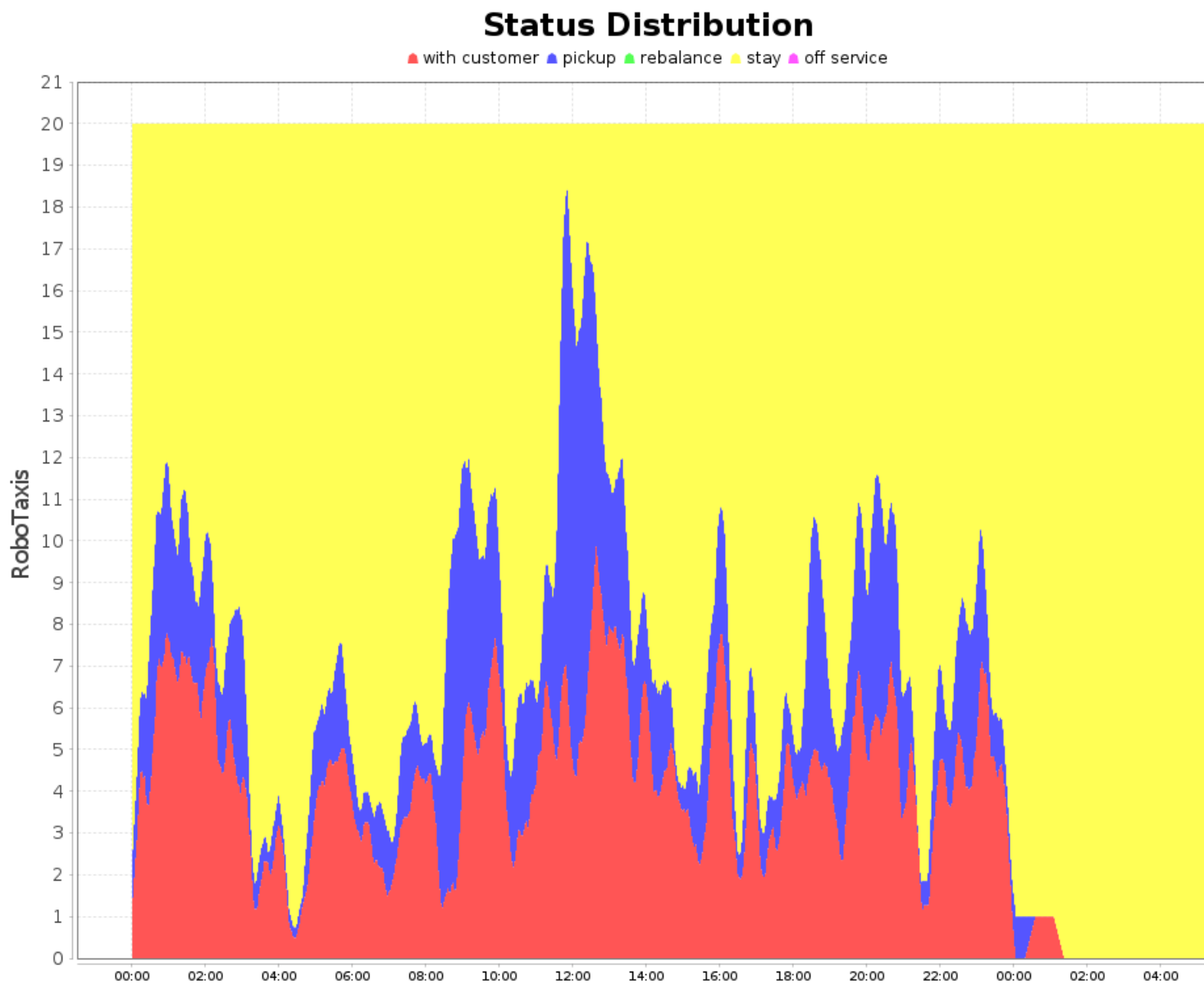
# Fleet Efficiency

## Distance Distribution over Day



# Occupancy and Distance Ratios

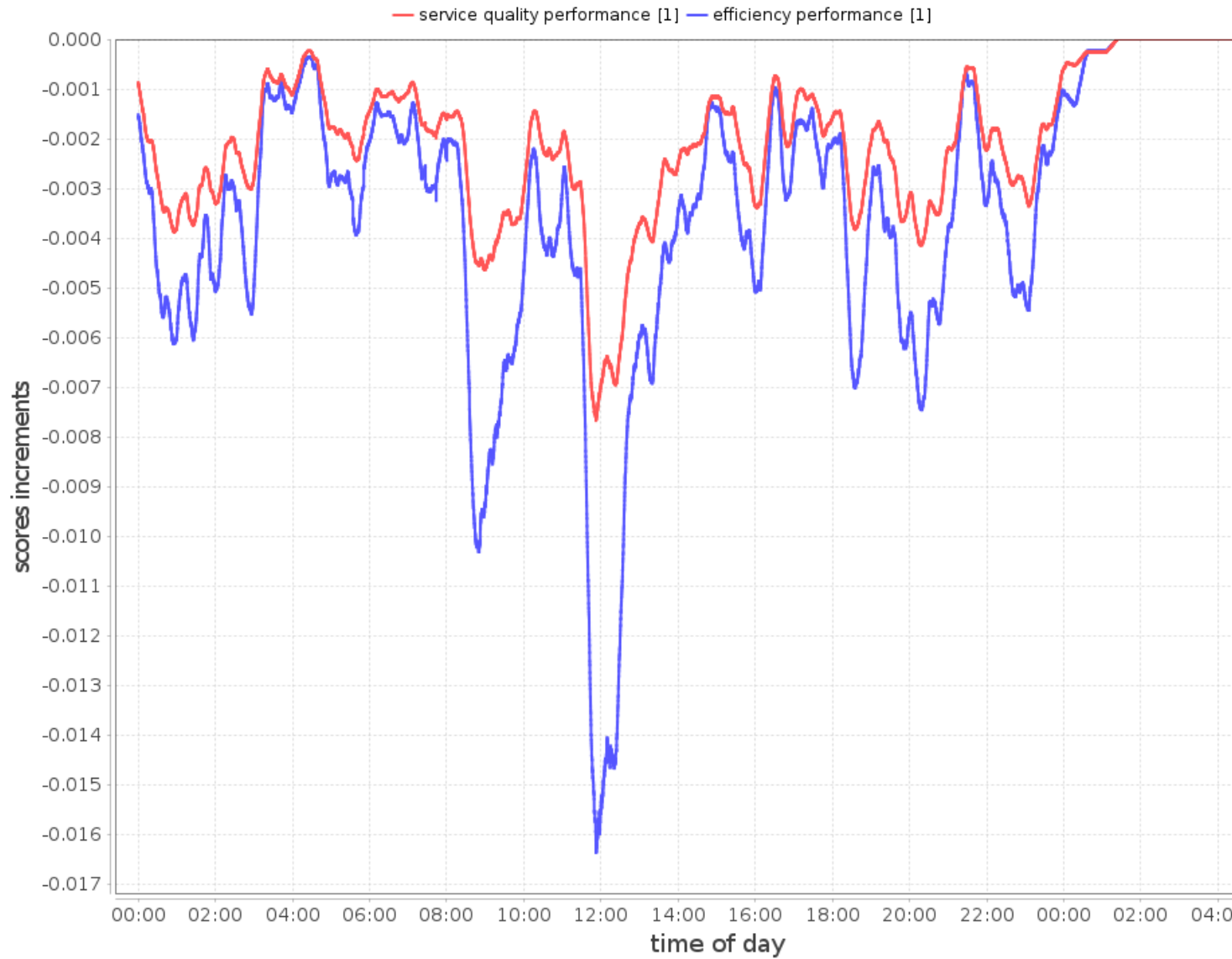




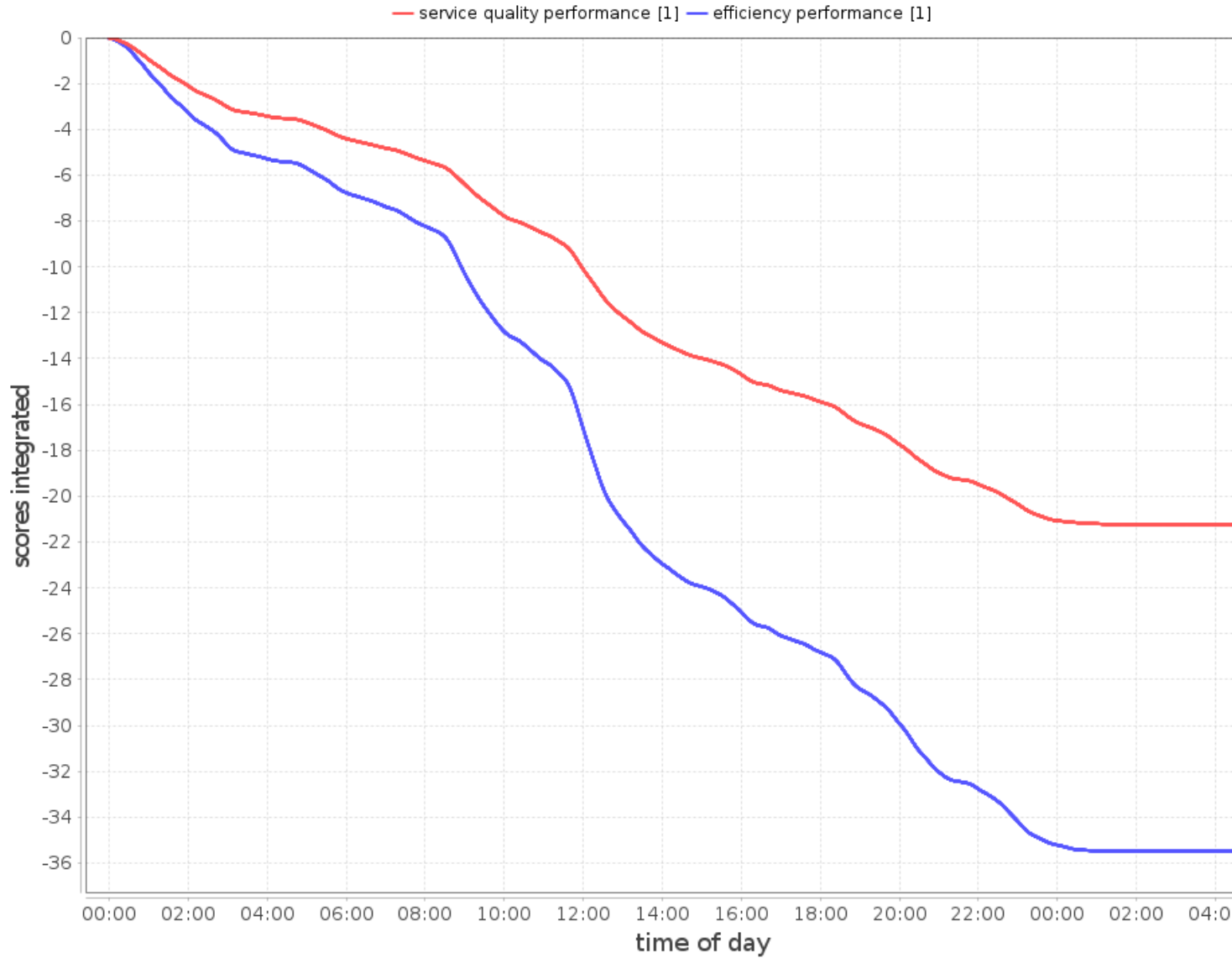
## Aido Scores

### Scores during Simulation

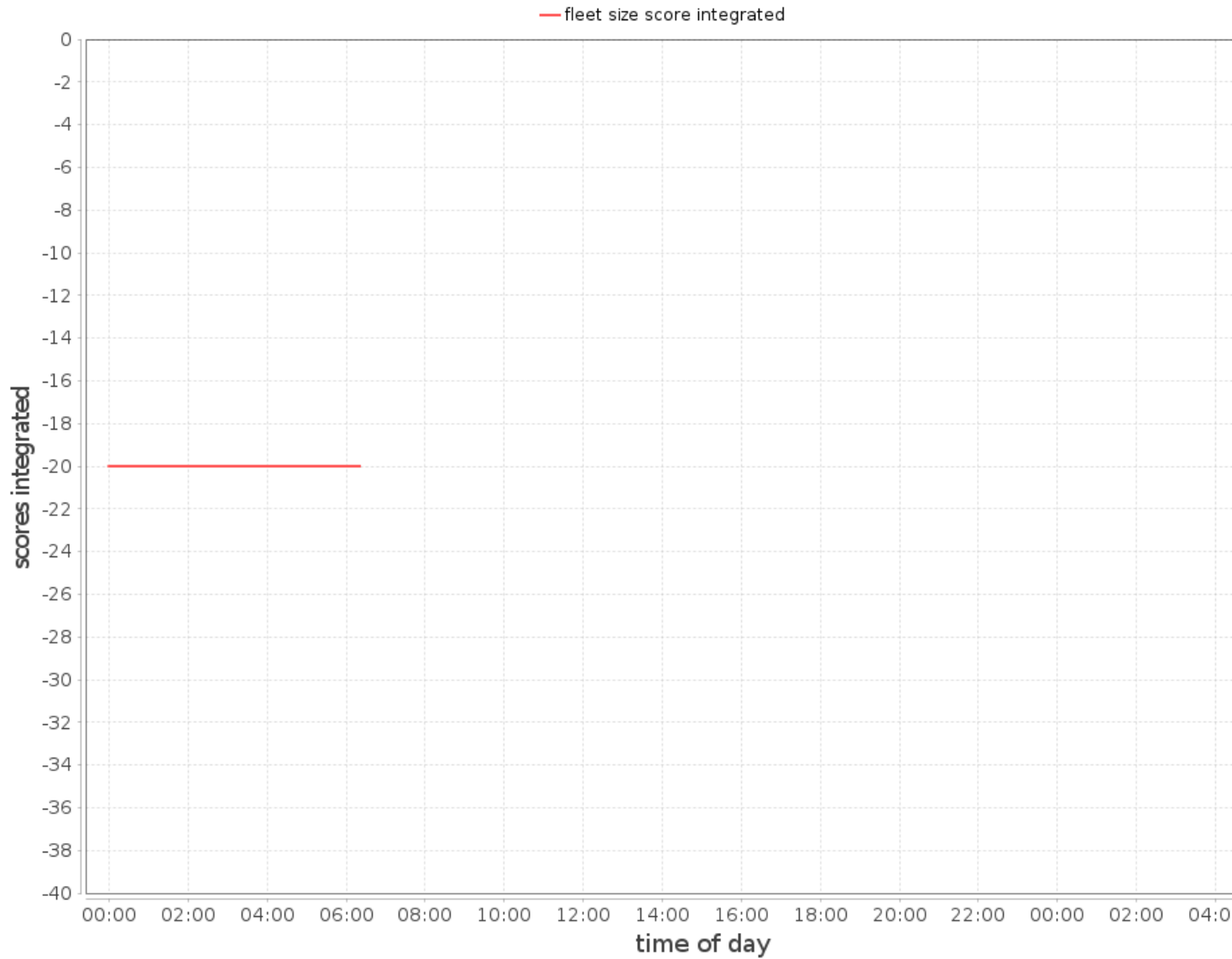
# Service Quality and Efficiency Score Increments



# Service Quality and Efficiency Score Integrated



## Fleet Size Score Integrated



### Final Scores

|                              |                     |
|------------------------------|---------------------|
| final service quality score: | -21.222620685952524 |
| final efficiency score:      | -35.48516274380861  |
| final fleet size score:      | -Infinity           |

[www.idsc.ethz.ch](http://www.idsc.ethz.ch)