

Device

Other device(s)

Beacon service

Beacon sending functionality

sends position data to other devices

Beacon reception functionality

receives position data from other devices

Position data

Beacon filtering functionality

Beacon service

Collected position data

Count beacons per cell

Reception functionality

receives aggregated
density map

Own density map

Foreign density map

Aggregation of maps

Aggregated map

Density map sending functionality

sends aggregated
density map

Density map service

Density map service

