Telia Smart Public Transport

Automatic Passenger Count

Insights on passenger flows

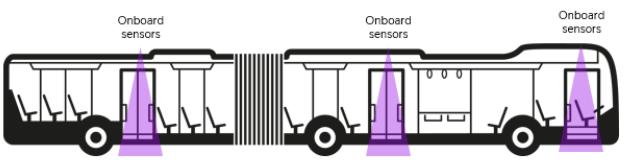
Stay updated on the number of passengers on the bus or train and how many people use the stops and at what times. This allows information in real-time as well as analytics over time to be able to plan better routes, timetables and add more vehicles if needed.

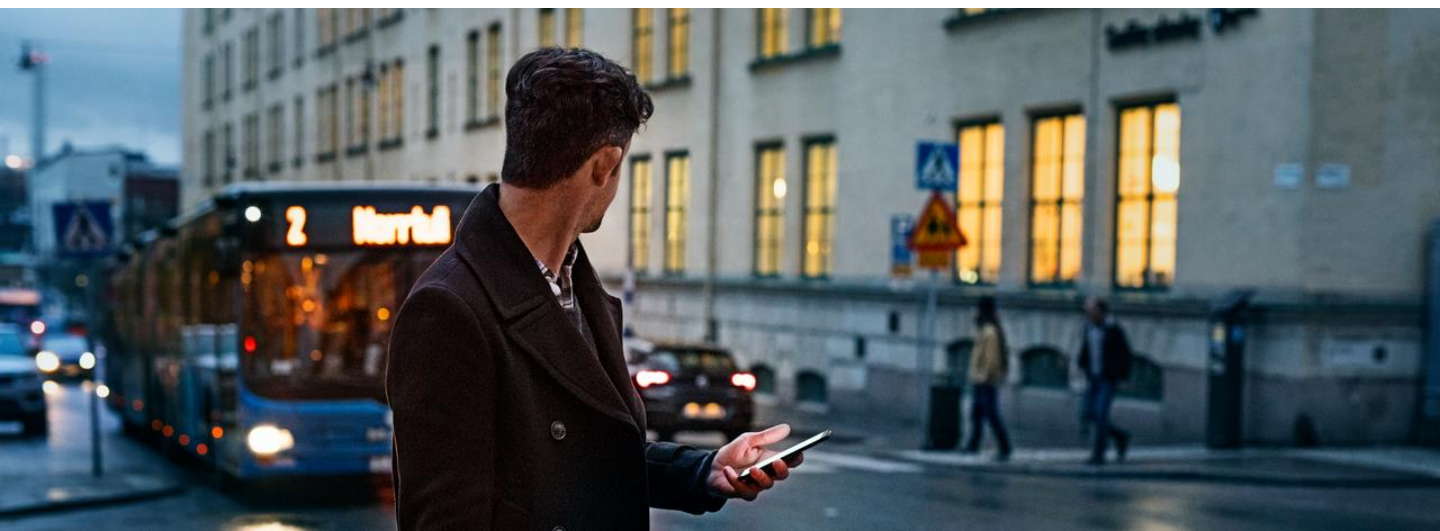
See how many people get on and off in real time
Keep traffic management updated on the number of entries and exits by providing them with real time data from the vehicles. This allows for an immediate overview or analytics over time for insights of the passenger flows for your different routes to optimize your operations.

Get an overview of where and when
With GPS positioning, you receive information about where the vehicle is at the time of measurement. Synchronize with imported traffic information for an extended overview of where most entries and exits occur - sorted by lines, trips, and stops. This makes it easier to monitor the occupancy on various trips, such as: how many people ride on a particular line, which stops are being used, and at what times

Key benefits

- High passenger counting accuracy
- Data can be integrated with third party systems
- Includes time and GPS location



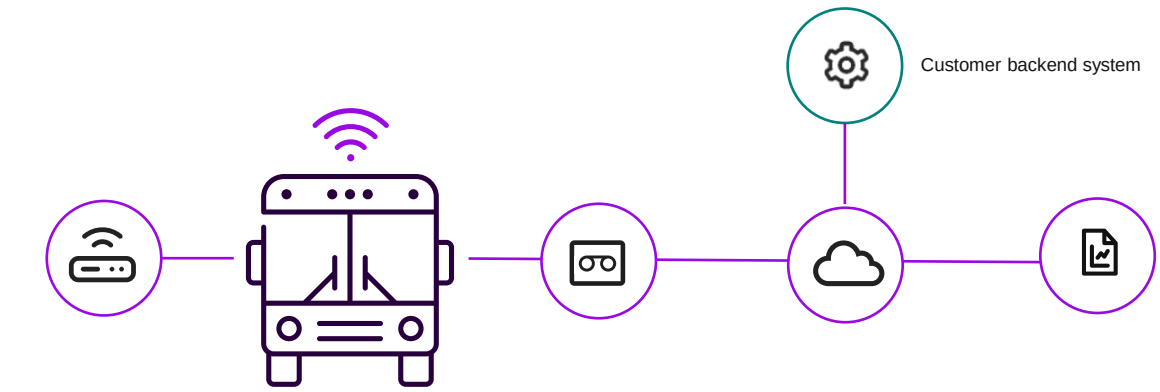


Monitor the occupancy on various trips: how many people ride on a particular line, which stops are being used, and at what times

How Automatic Passenger Count work
Automatic Passenger Count is a service that runs on the Telia Smart Public Transport platform and is connected via Telia IoT Edge; our powerful onboard edge processor and gateway. Telia IoT Edge delivers real-time data to drivers and to the cloud.
A Telia IoT Edge is installed in the vehicle, as well as sensors that acts as passenger counters that notes whether a passenger is on the way in or out of the bus.

The vehicle's door sensors inform the onboard IoT unit about which doors are open, and the unit then signals the passenger counter to start counting the number of passengers going in/out through the doors in question.

The unit then aggregates the measurements from the passenger counter and sends the aggregated data, including time and GPS location, to Telia's cloud-based servers via a mobile network. Telia can then pass this information on to your back-office system.



End-to-end security, reliability & support

Consolidate your IT systems to one open platform

Telia IoT Edge is a powerful onboard edge processor and communication gateway. It is retrofittable and connects onboard systems and devices to the cloud. This makes it possible to download vehicle data, control, survey, update and configure IT-systems in the vehicle remotely. Telia IoT Edge combines robust, maintenance-free design with reliable and open software and application.

With an open platform, APIs and standards; you can easily integrate your own services – or add third party applications. So you can make the most of whatever the future brings.

Technical components: Telia Automatic Passenger Count

Onboard unit	Telia IoT Edge (MIIPS)
Passenger counter sensors	

Want to learn more? Let's talk!
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