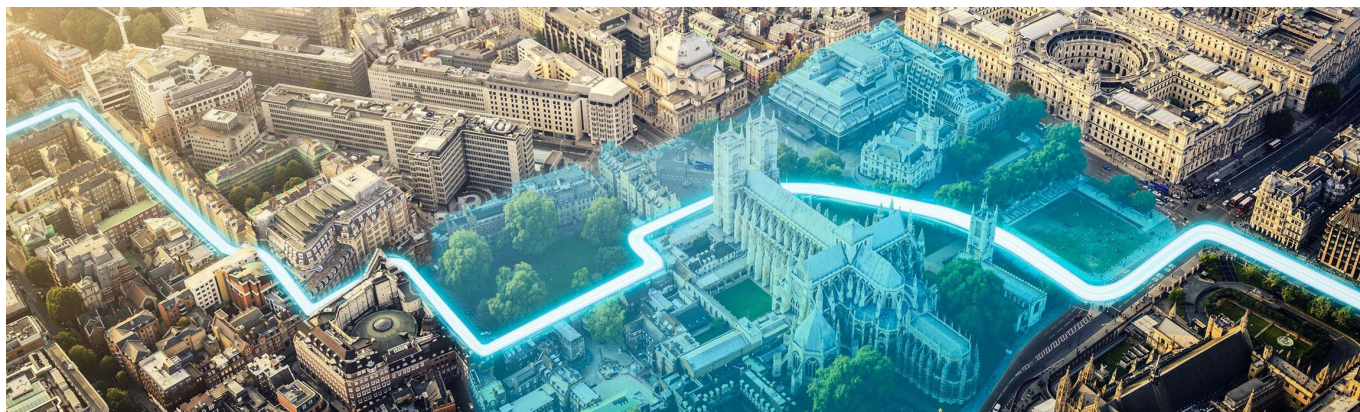




Volvo Bus. Driving quality of life

# VOLVO BUS ZONE MANAGEMENT

A part of Volvo Bus Services



Zone Management means that vehicles can comply with restrictions and specific requirements depending on geographical position. The driver is updated when he or she is in zero-emission or low-speed zones, and can adjust driving mode and take action accordingly.

## Create geographical zones

By setting map boundaries and downloading them to the vehicle's fleet management software it is possible to create zones in order to apply recommendations, rules and restrictions to vehicles entering a zone. Using real-time GPS tracking of the vehicle's position, the system alerts the driver when approaching such a zone.

## Zone characteristics

Each zone is given attributes. These may be a speed limit, a time frame or a calendar controlling other parameters. A zone can be valid for all or some of the vehicles in the fleet. The zones may also overlap.

## Silent zones

In a silent zone the noise level is restricted for the benefit of the citizens. Cities have different reasons for creating silent zones, for example close to residential areas, recreation areas or hospitals. Zone Management switches to silent drive prior to entering the silent zone, and the Electric Hybrid goes back to standard operation after exiting the zone.

## Zero-emission zones

An increasing number of cities restrict traffic with combustion engines in sensitive areas. Geofencing is then used to prevent

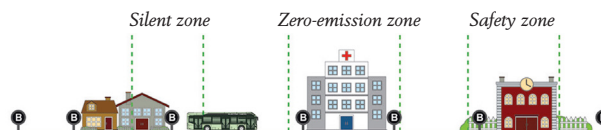
vehicles from entering the zone unless they are able to run in electric mode, without a combustion engine running. For electric hybrids, traffic data is used to calculate and predict energy consumption, thus enabling electric drive throughout the zero-emission zones.

## Safety zones

Every city street and every road has a speed limit. By particularly defining the low-speed zones it is possible to ensure the driver is always aware of the current limit. The system warns and reports if the vehicle speed exceeds the limit. It is also possible to actively control the speed of the vehicle.

## Requirements

The use of Zone Management requires the installation of Volvo Bus Fleet Management.



*Volvo Bus Zone Management is a service that enables compliance with restrictions in various kinds of sensitive areas.*

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