

## Operations and management

Managing a rapidly growing number of IT solutions is one of the central challenges associated with digitalisation. onway relies on remote administration, which means that on-site intervention is no longer necessary.

## Pervasive vehicle-to-ground communication

One of the most demanding functions on moving vehicles is providing a stable and as highly performing train-to-ground connection as possible. onway continually measures the capacity of all mobile networks and aggregates them – taking into account the necessary security – to give the best possible performance.



## Passenger tracking and counting

Smartphones are continually emitting signals that can be received and evaluated by the local WLAN network. This allows anonymous passenger streams to be monitored in real time, passengers can be counted without any additional measuring equipment and passengers' journeys can be followed, which allows timetables, connection management, etc. to be improved.

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## About onway

onway ag develops communications solutions for private and public companies. These include products for Network Access Control, «Bring your own Device» access, public guest WLAN access and improved communications for public transport. Over 100 companies now rely on software products from onway.

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# onway – simply connected

The potential of increasing digitalisation and emerging IoT\* applications promises to simplify operating processes, and to provide passengers with better information, competitive internet access and entertainment programmes. onway is the smart solution for secure, high-performance communication for all mobile applications.



## Passenger WLAN – the digital customer interface

In the age of digitalisation, passengers expect more than to be transported from A to B. The time spent on board will be used actively – be it working, on social media, listening to music, watching films or discovering more about nearby sights.

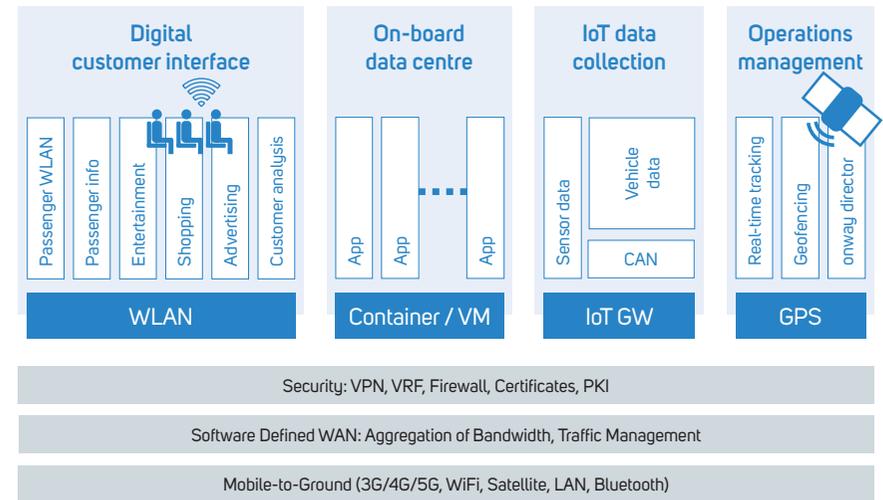
Wireless LAN offers transport companies direct digital access to their customers. Only WLAN technology makes it possible to communicate directly with passengers, to play content – made available via the on-board computer and including music, films, tourism information and advertising – locally on passengers' personal devices, or to locate passengers exactly to provide them with location- and context-related travel information and services.

## Personalised and context-based travel information

Modern passenger information includes real-time information about punctuality, disruptions, expected arrival times, as well as connections as standard. Thanks to electronic ticketing and exact WLAN customer localisation, passengers only receive context-based information that is relevant to them.

## On-board data centre

In addition to selling tickets, the potential for transport companies to sell other digital services is huge. Digitalisation occurs in software: in new apps and digital services with local interaction, such as online seat reservations, in-seat service, first class upgrades, high-speed WLAN, couponing, on-board shopping, etc. This means that rail vehicles need basic infrastructure in place to roll out digital innovation across vehicles as quickly as possible. Our solution gives you the possibility to roll out new software (as a container or VM) automatically across your entire fleet. This means you are on the market with new innovative services in no time.



## IoT data collection

Rail vehicles already generate significant volumes of data. But digitalisation and the IoT have now made it possible to access this valuable information online. This allows deviations and faults to be recognised before they occur (predictive maintenance), and maintenance orders can be completed before the fault occurs (prescriptive maintenance).

\* IoT = Internet of Things