

FUTURE-PROOF TICKET VALIDATION

Enhance competitiveness through smart fare collection systems

Improve
urban mobility

Reduce
pollution

Increase
efficiency



IMPROVING LIFE IN THE CITY

THE URBAN CHALLENGE

There is a global shift underway in the way people interact with the urban environment. Populations are moving to urban centres of economic activity, meaning that not only do cities continue to expand outwards, the services that support urban infrastructure need to do the same.

Mostly, this has led to a rapid expansion of car ownership – but this brings issues of congestion and pollution. There needs to be a better way of meeting the needs of every member of society.

INCREASE URBAN MOBILITY

The way that people negotiate the urban environment has a direct relationship to the economic vitality of towns and cities. At Parkeon, we're helping authorities and public transport owners to balance needs of drivers, cyclists, pedestrians and passengers.

Our innovative solutions cover public transport systems and parking, creating a better connected environment for people and businesses.

Some local authorities are considering reducing parking spaces to increase road capacity and reduce congestion. That is just one piece of the urban mobility jigsaw.

1970 – World vehicle population
250 million

.....
1986 – World vehicle population
500 million

.....
2010 – World vehicle population
One billion

EFFECTIVE TICKETING SOLUTIONS

One crucial component of an efficient public transport network is a customer-responsive ticketing system that takes account of economic and social drivers.

At Parkeon, we're currently working with towns and cities to develop multi-modal ticketing and validation platforms that support a way of living fit for the 21st century.

Systems in

55

countries



A NEW URBAN DYNAMIC

A NEW APPROACH

Today, a new relationship is developing between cities and populations, based on making transport services easier to access and more efficient to run. Parkeon is leading the way in developing multi-modal payment, validation and information systems that make for a better connected urban environment, whether on bus, tram, train, metro or ferry.

All around the world, scheme owners are looking for solutions that help improve productivity. Parkeon technologies deliver true end-to-end benefit, meeting all relevant protocols and standards linked to fare collection, payment systems, validation and back office reconciliation.

The data delivered by such systems help city planners to join-up transport modes, influence economic and environmental activities and optimise revenue streams.

MULTI-MODAL AND MULTI-CHANNEL

Parkeon ticketing and validation platforms are designed to be future proof, ensuring that however technology develops, the systems in place are both scalable and configurable. From cash payments to concessionary and commercial smartcards, NFC and EMV, Parkeon's range of ticketing and validation technologies will help deliver the vision of a more integrated urban environment.

50

MILLION

**transport ticketing
transactions
processed
each day**





CREATING VALUE THROUGH TECHNOLOGY

SMART VALIDATION – ON-BOARD, ON-PLATFORM AND ON THE MOVE

Smart fares validation plays a key role in the contribution of mass transit systems in the economic life of towns and cities. Parkeon technology helps improve transport services by processing journey data and ensuring the accurate apportionment of revenues.

Every Parkeon ticketing solution is capable of reading all types of devices and compliant with all standards (e.g. EMV, ISO 14443, A, B, MIFARE, Calypso, NFC, Intercode/Intertic/IT&PT).

Each solution connects wirelessly to Transfolio, Parkeon's centralised back-office system and is built on scalable Android platforms so that new services are added easily.

Supplementing self-service ticket validators on platforms with on-board terminals offers a number of benefits for service operators and passengers:

- ▶ Selection of fares : multi-contract, multi-trip plans, destination
- ▶ Real-time travel information, timetables and alternative travel options
- ▶ Service issue reporting
- ▶ Improved transaction reconciliation
- ▶ Better fraud prevention



PARKEON SOLUTIONS

Your gateway to a range of validation and control systems



INFIGO

Infigo is an advanced ticketing and validation console perfectly suited to buses, trams, trains and underground systems. Ticket issuing and Validation in one performant device

- ▶ Ticket issuing, reloading and validation in one device
- ▶ Fast secure processing to speed-up boarding times
- ▶ Smart card processing plus Real-Time Passenger Information interface
- ▶ Enabled for all contactless smart cards/tags/tickets, paper ticket 2D barcode, including passes and multi-journey, etc
- ▶ Intelligent data capture to inform service scheduling
- ▶ Future-proof Android operating architecture to drive additional functionality, services and applications
- ▶ Adaptable to provide basic or a fully integrated ticketing system
- ▶ Available as bus driver console only
- ▶ Always-on information
- ▶ Communicates with AXIO TOUCH validators

AXIO AND AXIO TOUCH

Quick and easy boarding for a better travel experience, with a touch screen option

- ▶ Contactless-only technology speeds up passenger boarding times
- ▶ Enabled for all contactless smart cards/tags/tickets, magnetic tickets, paper ticket with 2D barcodes, bank cards, NFC phones
- ▶ Audio assistance for visually impaired users
- ▶ Dynamic display of maps, 'Next stop' indicator, season ticket status, ticket reloading facility, flash alerts
- ▶ Real-time passenger information based on vehicle positioning



MULTI-FUNCTIONS TERMINAL : validation, sales and control

Peak times with exceptional public interest (sporting and cultural events...) and the development in the controlling business require a portable terminal for tickets validation, sales and control

- ▶ Validation of all travel tickets whatever the technology
- ▶ Sales of tickets
- ▶ Control of tickets
- ▶ Ticket regularisation (lower fines if a season ticket is purchased)
- ▶ Passenger information : traffic, connections, etc.



All Parkeon terminals are built on Android platforms, making easier the switch of an application from one terminal to another one or accept new applications developed by third parties.

AXIO STATION

Attractive and robust outdoor validation terminal – accessible to all

- ▶ Enabled for all contactless smart cards/tags/tickets, magnetic tickets, paper ticket with 2D barcodes, bank cards, NFC phones
- ▶ All contracts : origin-destination, one-trip or multiple trips tickets
- ▶ Small footprint allows installation anywhere around the station
- ▶ Pedestal or wall-mounted
- ▶ Install with turnstiles for check-in/check-out
- ▶ Optimum passenger experience with colour screen and voice announcements
- ▶ Ergonomically-designed
- ▶ Validation may be completed in advance of boarding to reduce queuing
- ▶ Interactive information and reloading terminal



Mobile applications

With demand for mobile payment and information systems growing, Parkeon is working closely with transport operators to meet the needs of 'Mobile Generation'.

On-board ticketing platforms incorporate real-time information data that also helps transport managers monitor traffic conditions to run services more efficiently... and to keep customers informed.

Parkeon mobile solutions help operators connect with their customers, providing access to a range of services via smart phones, tablets and laptops. This mobile technology provides passengers with up-to-date travel recommendations and journey planning, real-time traffic conditions, confirmation of ticketing arrangements... and much, much more.

In addition, this channel provides a cost-effective route to market for transport and retail operators covering sales, validation, control, enforcement and fraud prevention.

Parkeon S.A.S.
Headquarters
100 Avenue de Suffren
75015 Paris
France
P +33 (0)1 58 09 81 10
.....

Parkeon S.A.S.
Industrial Site
Parc La Fayette
6 rue Isaac Newton
25075 Besancon Cedex 9
France
.....

P +33 (0)3 81 54 56 00
Parkeon Limited
10 Willis Way
Poole, Dorset
BH15 3SS
UK
P +44 (0)1202 339 494

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