



O-CITY by bpc

**O-CITY FOR
TOLL ROADS**

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Service operators are constantly looking for innovative solutions that will allow them not only to increase profitability, but also optimise their business and make it more relevant and attractive to the end user. Outdated infrastructure is one of the main obstacles to achieving these goals.

Toll road service providers are no exception. The number of cars on the road continues to increase, along with demand for more convenient services. Drivers demand a modern service that supports multiple payment methods to create a seamless user experience, reducing the time it takes to interact with the system when looking for parking, using public transport, or driving on toll roads.

An automated system for collecting payments on toll roads is an integral part of the urban and suburban environment and plays a key role in creating smart cities. Improving the service requires the use of sensors, cameras, and a technological platform that allows all these services to be connected by combining checkpoints, drivers, roads and payment collection mechanisms into a single ecosystem, which not all service operators currently have at their disposal.

ONE CITY. ONE PLATFORM.



FREEDOM OF MOVEMENT

To successfully automate toll collection and run a toll road business, service operators need efficient yet flexible tools. Centralised processing and storage of data provides greater control and transparency - a key consideration in the development of the O-CITY solution.

As an open platform, it supports user-friendly payment options. Operators can configure the infrastructure to support any type of payment, and centralised storage and processing of data allows them to effectively segment user groups and construct their tariff policy.

OPEN ROADS

The O-CITY system was developed as a hardware-agnostic solution that can be installed on existing toll checkpoint infrastructure and validators, significantly reducing implementation time.

FARE MANAGEMENT

The O-CITY system makes it possible to introduce various types of tariffs for toll roads, the rules for which are set by the service operator:

- ZONAL TARIFFICATION
- FIXED TARIFFS
- MULTI-ZONAL
- BY MILEAGE
- BY VEHICLE TYPE

Example: When several zones are connected to O-CITY, zone A-B can be charged at \$1.00 per ride, while the tariff in zone B-C can be adjusted according to other criteria with a price of \$2.50. The fare for two zones at once (A-C) can be calculated as the sum of two sections with the possibility of applying a special tariff or discount.

CONFIGURATION AND CONTROL

The O-CITY platform allows operators to customise fares taking into account a variety of factors, providing effective segmentation and control over the process. Fares may vary depending on:

- Time of day
- Day of the week
- Type of vehicle
- Frequency of use
- Payment method
- Driver categories
- Type of client (corporate, individual)



Tariffs can be configured for different types of vehicles, such as motorcycles, passenger cars, passenger cars with a trailer, light trucks, buses, or large trucks..

It is also possible to automatically determine the type of vehicle using special sensors installed at the checkpoint or during user registration. In this case, the number and type of transport will be determined by the system and checked against the database and parameters configured by the owner of the system for accurate verification and application of the appropriate tariff.

VARIOUS PAYMENT METHODS

The quality of the service is determined by the convenience of its use when making a journey. Vehicle users do not have to worry about means of payment: with the O-CITY platform, payments can be made in any convenient way, which not only improves the quality of service, but also reduces the time spent by the driver at the toll. The system supports the following payment methods:

- Cash
- Specialized cards
- Bank cards
- Transponders
- Smartphones with O-CITY mobile application
- RFID tags



VEHICLE NUMBER PLATE RECOGNITION

An alternative method of payment is via number plate recognition through a built-in RFID token. The camera scans the number plate of the vehicle passing through the checkpoint and payment is taken automatically based on the information present in the driver account. Information from the camera is transmitted to the O-CITY system, thereby replacing the physical tap of a card or scan of a transponder device. This reduces infrastructure investment and system maintenance costs, since the use of cameras is already necessary to monitor the situation on the road and the checkpoints. It is possible to organize systems with both pre- and post- payment.



INTEGRATION THROUGH APIs

O-CITY is a flexible system with the ability to integrate with other services via API. When integrating the system with the road inspection database, it is possible to check the specified type of vehicle by checking the number plates with the database, reducing the risk of fraud.



QR CODE PAYMENTS

Drivers can pay for journeys using the QR code generated in the O-CITY app. Payment can also be made using a third party e-wallet linked to the application. The user needs to download the application, link a card to their account and scan the generated QR code at the checkpoint for payment.

FREEDOM OF MOVEMENT

REDUCED OPERATING COSTS

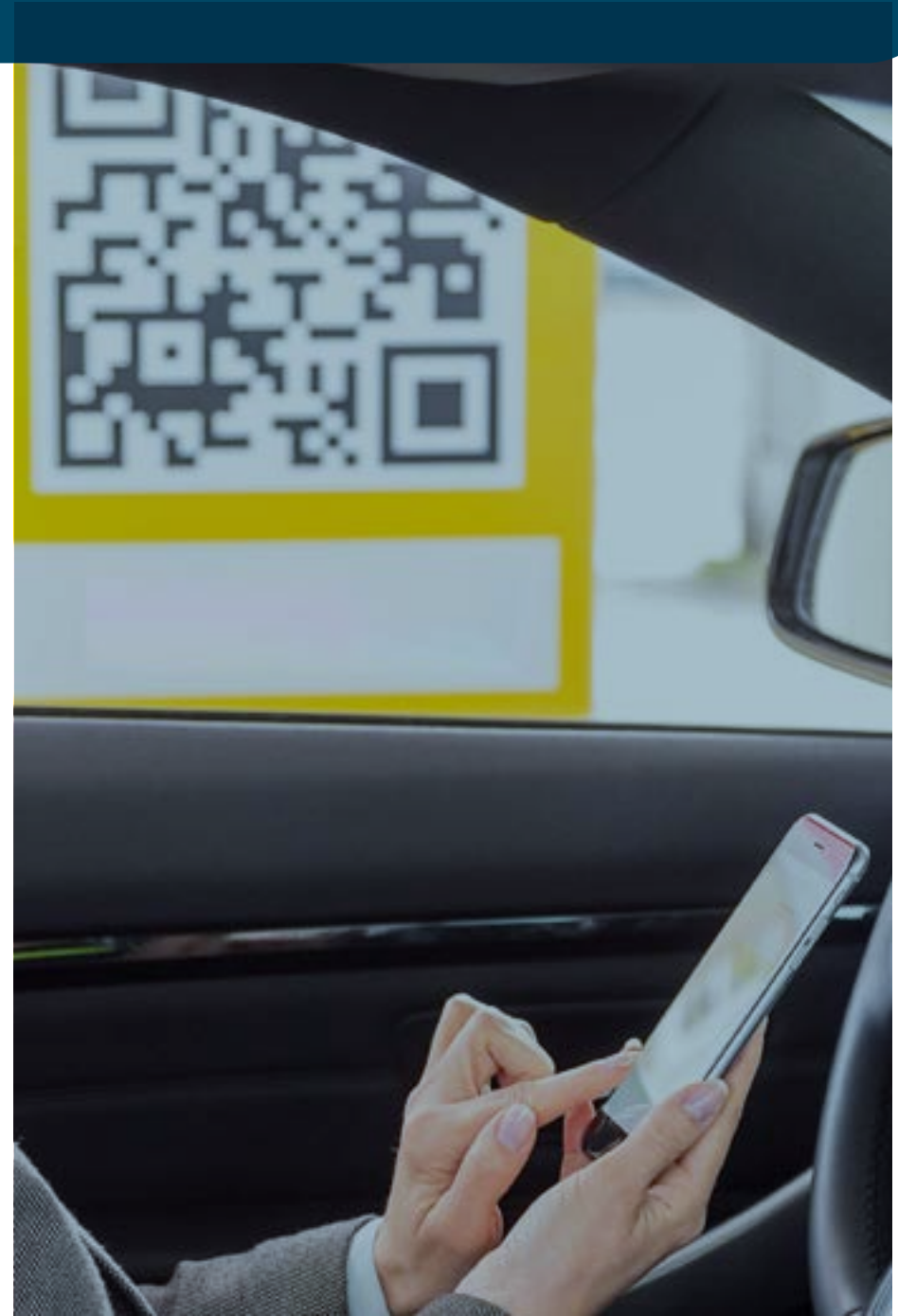
The digitization of the toll road system implies a decrease in cash turnover, which significantly reduces maintenance costs. O-CITY allows contactless payment, which can be topped-up anywhere, anytime via bank transfer, through the terminal or using third party e-wallets that are easily integrated with the system.

CENTRALISED PLATFORM MANAGEMENT


The O-CITY system keeps records of all types of payment, types of vehicles, payment devices, checkpoint data and other necessary information. Thanks to data management, the system operator can receive statistics and reports on the use of the toll road, which in turn allows it to apply various incentives to organize traffic and the operation of the road in general. With automated toll collection, the operator sees a complete and transparent picture of road usage.

LOYALTY AND DISCOUNT SYSTEM

The system allows operators to apply discounts and loyalty programs to registered users. When a user registers with O-CITY, a specialised account is created from which the operator receives statistics on the number of users, traffic volume, frequency of use of the service for each user and other data that can be analysed to make future business decisions, effective segmentation and build loyalty schemes.



FUNCTIONALITY



Leveraging the expertise of our parent company BPC, an award winning payment provider with more than 25 years of experience, O-CITY experts possess considerable expertise and knowledge about payments automation. The solution combines all modern methods of security and efficient collection of payments with infrastructure support, providing toll operators with a reliable payment service.

FOR SERVICE OPERATORS

- Centralised transaction processing
- Reporting and analytics
- Segmentation
- Easy scalability of services
- Open APIs
- Centralised tariff management
- Unified payment ecosystem
- Easy integration with existing Infrastructure
- Loyalty

FOR USERS

- Full access to payment information at the checkpoint
- Various payment options
- Account top-up anywhere, any time
- Loyalty and reward programs
- Cashless payment

**ONE CITY.
ONE PLATFORM.**



Scan the QR code and find out more on our
website www.o-city.com

