



SECAM

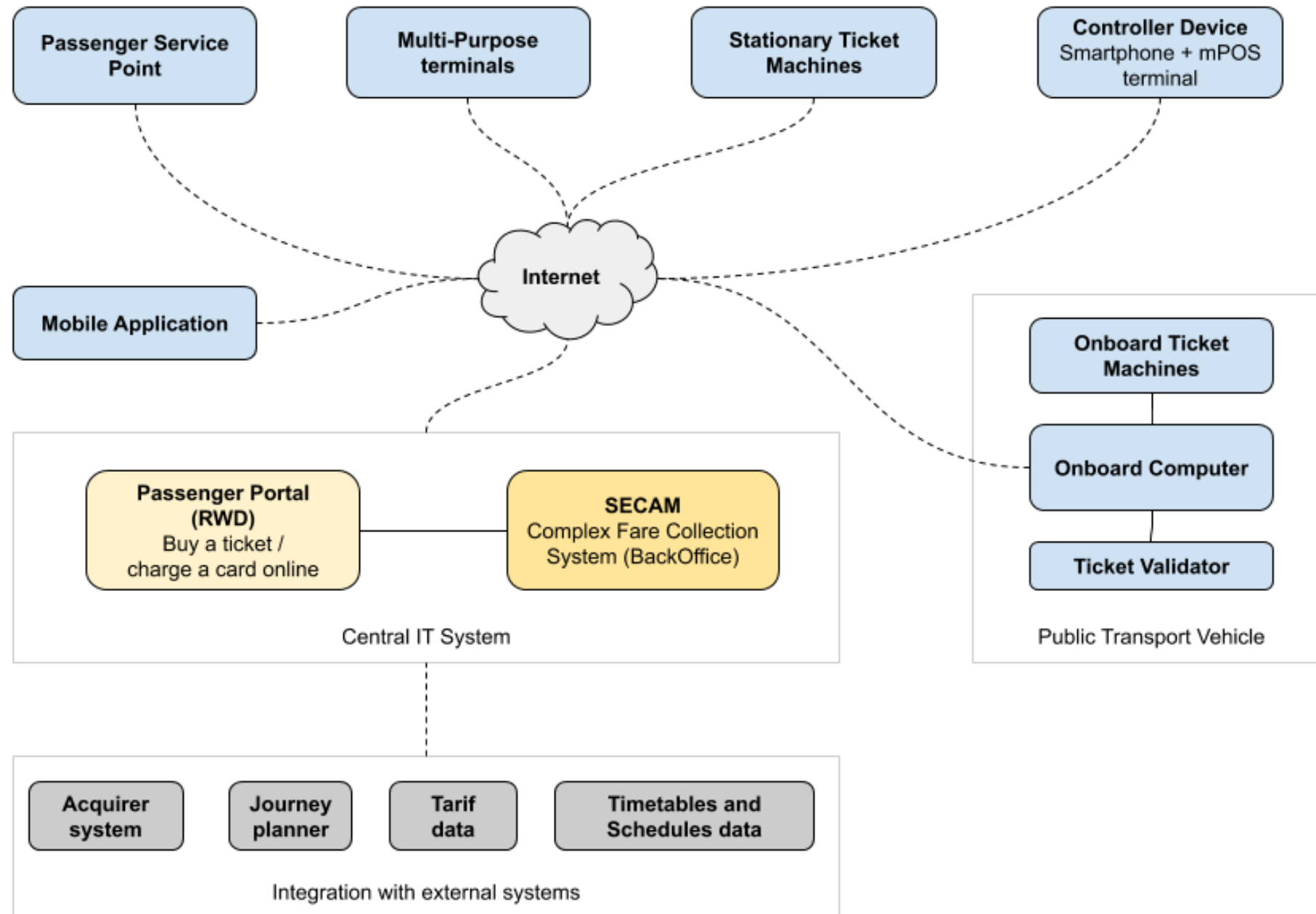
Complex Fare Collection System

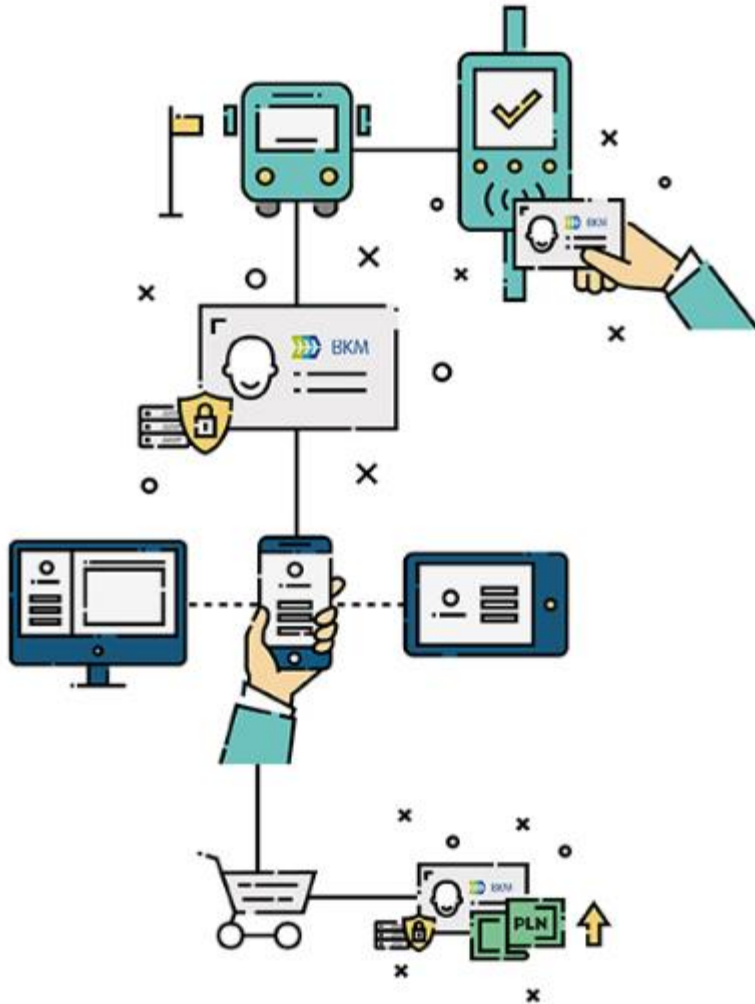
*on the example of
implementation
in Bialystok, POLAND*



BEESSET







- Electronic cards personalization,
- Passenger's profile management,
- Tariffs and Timetables management,
- Ticket products sale (known-fare, e-purse),
- SAM module data encryption,
- Receipts printing,
- Sale and ticket control analysis reports,
- CheckIn – CheckOut trip registration,
- API for external systems provided,
- Transaction history available,
- Integration with Public Passenger's Internet Portal,
- API to Passenger Service Point and Multi-Purpose terminals
- 2D codes generator,
- Single account for each product reseller,
- Users and roles management,
- WEB based user interface,
- Complaints management and maintenance,

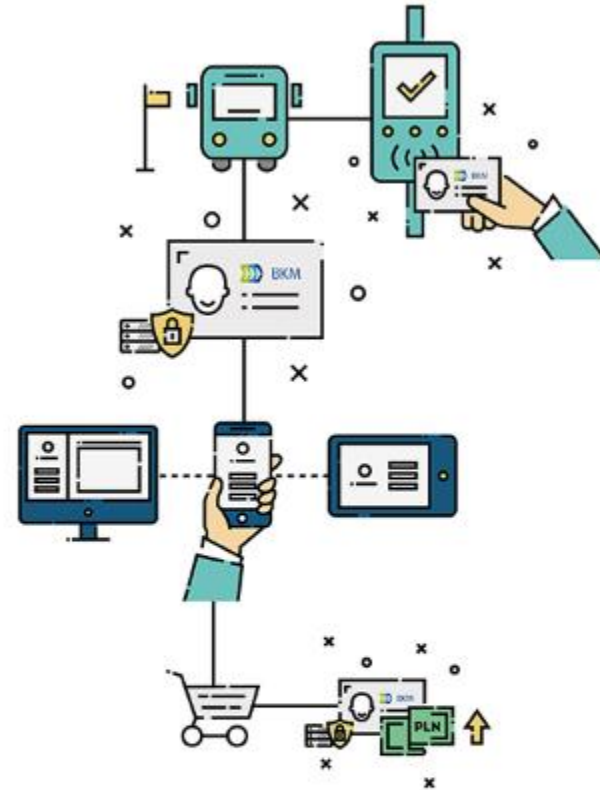
Main features



Username

Password

Log in



SECAM
System Elektronicznej

Login page - access via website

Anonymous 18113921349

Card registration

Card activation

Update, top-up, locking

Card registration

* Card category
client

* Card number
18113921349

* Card type
Mifare

* Currency
EUR

* Registration user
tckadmin tckadmin

* Registration device
TEST_SECAM_G TEST_SECAM

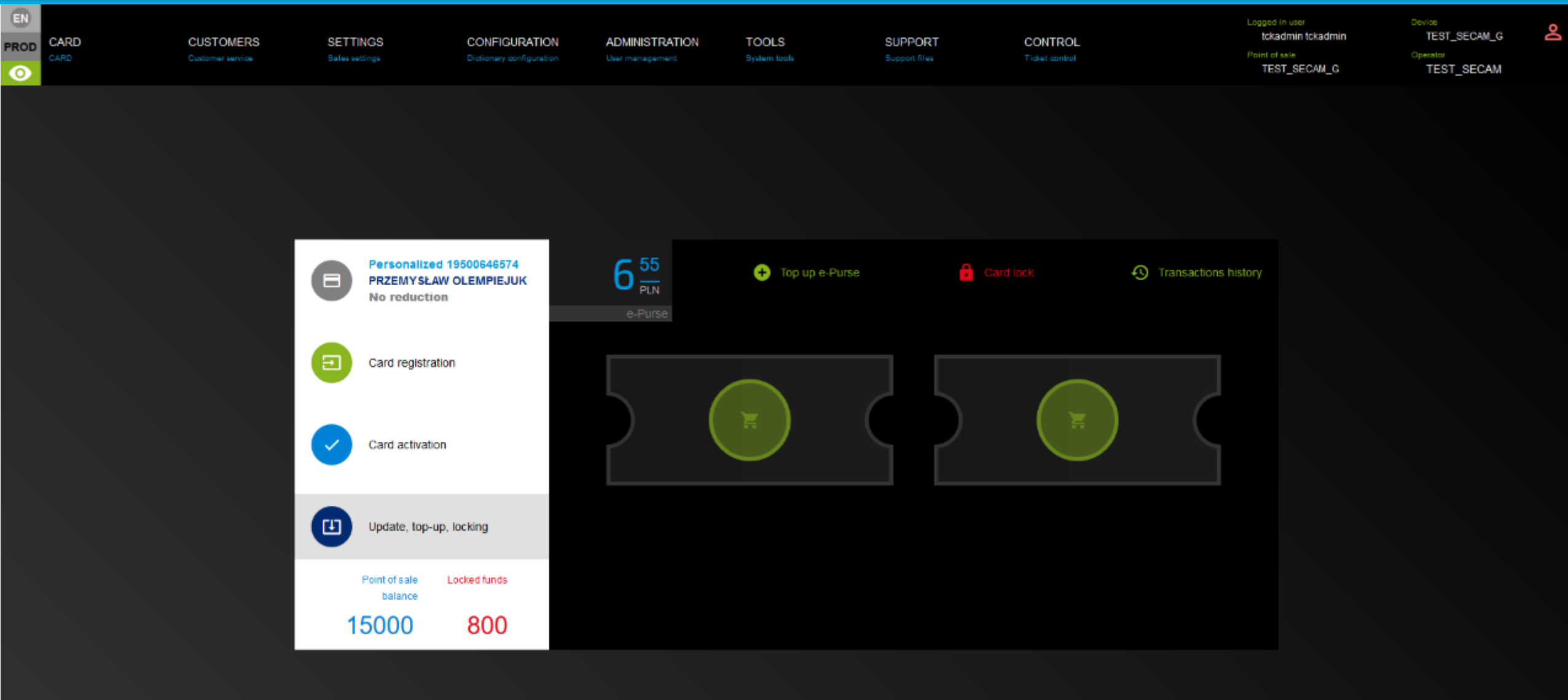
Point of sale
balance

15000

Locked funds

800

Card registration - Adding card to system



The screenshot displays the SECAM interface with a dark theme. At the top, a navigation bar includes a language selector (EN), a status indicator (PROD), and a menu with categories: CARD, CUSTOMERS, SETTINGS, CONFIGURATION, ADMINISTRATION, TOOLS, SUPPORT, and CONTROL. On the right, user and device information is shown: Logged in user (tckadmin), Point of sale (TEST_SECAM_G), Device (TEST_SECAM_G), and Operator (TEST_SECAM).

The main content area features a sidebar on the left with a list of actions: Personalized (19500646574, PRZEMYŚŁAW OLEMPIEJUK, No reduction), Card registration, Card activation, and Update, top-up, locking. Below these, the Point of sale balance is 15000 and Locked funds are 800.

The central display shows a card balance of 6.55 PLN and an e-Purse status. To the right, there are buttons for Top up e-Purse, Card lock, and Transactions history. At the bottom, two card icons with shopping cart symbols are visible.

Product selection tree – starting screen

EN

PROD

CARD

CUSTOMERS

SETTINGS

CONFIGURATION

ADMINISTRATION

TOOLS

SUPPORT

CONTROL

Logged in user
tckadmin tckadmin

Point of sale
TEST_SECAM_G

Device
TEST_SECAM_G

Operator
TEST_SECAM



Personalized 19500646574
PRZEMYSŁAW OLEMPIEJUK
No reduction



Card registration



Card activation



Update, top-up, locking

Point of sale
balance

15000

Locked funds

800

Normal



MONTHLY

3 - MONTHS

30 - DAYS

Product selection tree –ticket validity period

EN
PROD

CARD
CARD

CUSTOMERS
Customer service

SETTINGS
Sales settings

CONFIGURATION
Dictionary configuration

ADMINISTRATION
User management

TOOLS
System tools

SUPPORT
Support files

CONTROL
Ticket control

Logged in user
tckadmin tckadmin

Point of sale
TEST_SECAM_G

Device
TEST_SECAM_G

Operator
TEST_SECAM

Personalized 19500646574
PRZEMYSŁAW OLEMPIEJUK
No reduction

Card registration

Card activation

Update, top-up, locking

Point of sale balance
15000

Locked funds
800

NORMAL MONTHLY ALL LINES B
80.00 PLN

December

January

Product selection tree – Start date / month of validity

EN

PROD

CARD

CARD

CUSTOMERS

Customer service

SETTINGS

Sales settings

CONFIGURATION

Dictionary configuration

ADMINISTRATION

User management

TOOLS

System tools

SUPPORT

Support files

CONTROL

Ticket control

Logged in user

tckadmin tckadmin

Device

TEST_SECAM_G

Point of sale

TEST_SECAM_G

Operator

TEST_SECAM

Personalized 19500646574

PRZEMYSŁAW OLEMPIEJUK

No reduction

Card registration

Card activation

Update, top-up, locking

Point of sale balance

15000

Locked funds

800

NORMAL

MONTHLY

ALL LINES

B

80.00 PLN

2020-01-01

Ticket : Normal

Ticket type : MONTHLY

Lines : ALL LINES

Zones : B

Valid from : 2020-01-01

Valid until : 2020-01-31

Price (gross) : 80.00 PLN

VAT (8 %) : 5.93 PLN

Price (net) : 74.07 PLN

Purchase summary before saving to the card


Personalized 19500646574
PRZEMYSŁAW OLEMPIEJUK
 No reduction


 Card registration


 Card activation


 Update, top-up, locking

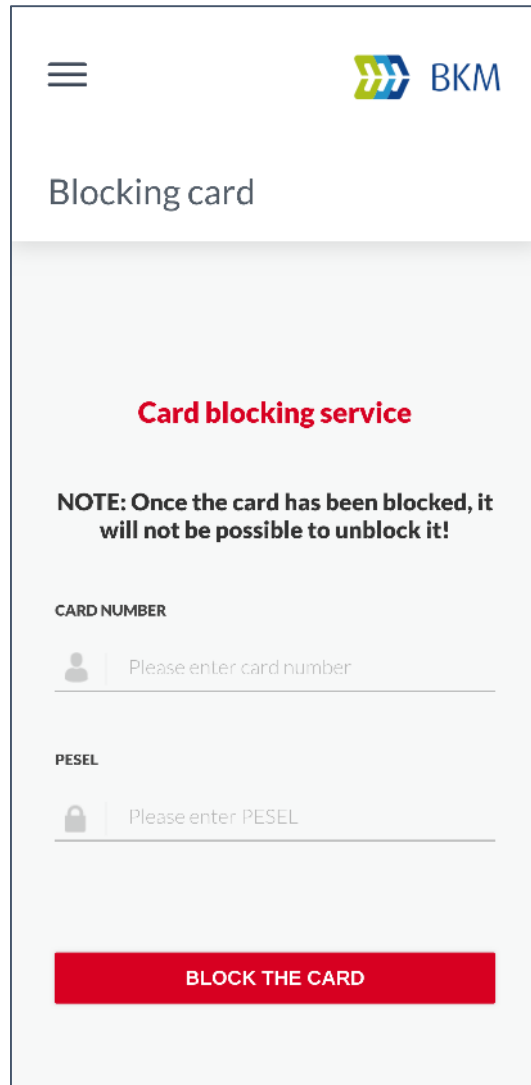
Point of sale balance
15000

Locked funds
800

< ↺ Transactions history 🔍 ⓘ

Date	Status/Transaction type	Net	Vat	Gross	nplai	ance
2018-06-06 14:08:10	Potwierdzona / Gotówka	9.26	0.74	10.00		
2018-03-20 14:36:16	Potwierdzona / Gotówka	37.04	2.96	40.00		
2018-02-19 11:40:36	Potwierdzona / Gotówka	37.04	2.96	40.00		
2018-02-02 09:27:42	Potwierdzona / Gotówka	37.04	2.96	40.00		
2018-01-05 14:01:28	Potwierdzona / Gotówka	18.52	1.48	20.00		
2017-11-28 10:02:42	Potwierdzona / Gotówka	37.04	2.96	40.00		
2017-10-26 15:42:54	Potwierdzona / Gotówka	37.04	2.96	40.00		
2017-07-29 09:49:26	Potwierdzona / Gotówka	18.52	1.48	20.00		
2017-07-01 09:15:16	Potwierdzona / Gotówka	37.04	2.96	40.00		
2017-05-31 13:17:34	Potwierdzona / Gotówka	37.04	2.96	40.00		
2017-04-28 09:09:18	Potwierdzona / Gotówka	37.04	2.96	40.00		
2017-03-16 10:28:28	Potwierdzona / Gotówka	37.04	2.96	40.00		
2017-02-25 11:21:32	Potwierdzona / Gotówka	37.04	2.96	40.00		

Card transactions history



Blocking card

Card blocking service

NOTE: Once the card has been blocked, it will not be possible to unblock it!

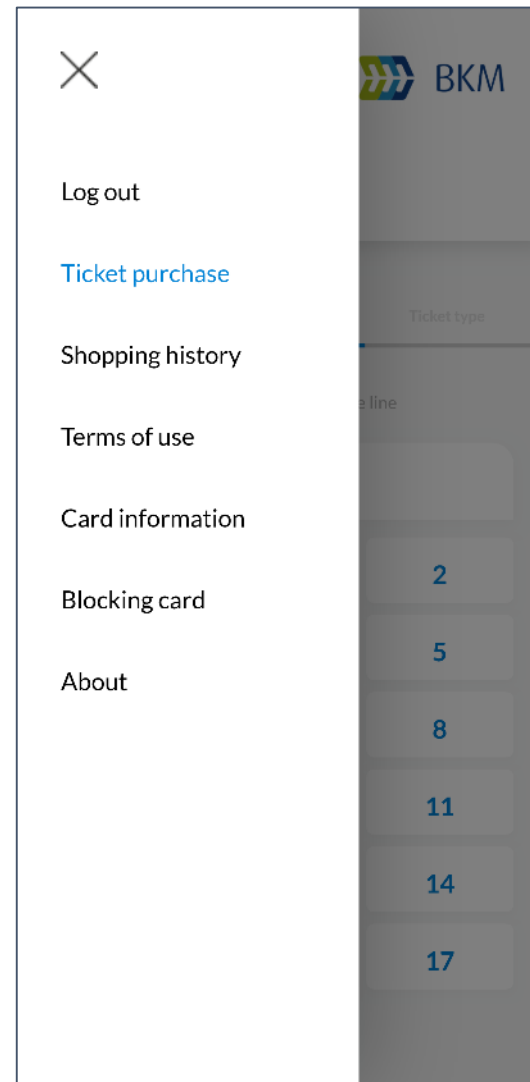
CARD NUMBER

 Please enter card number

PESEL

 Please enter PESEL

BLOCK THE CARD



Log out

[Ticket purchase](#)

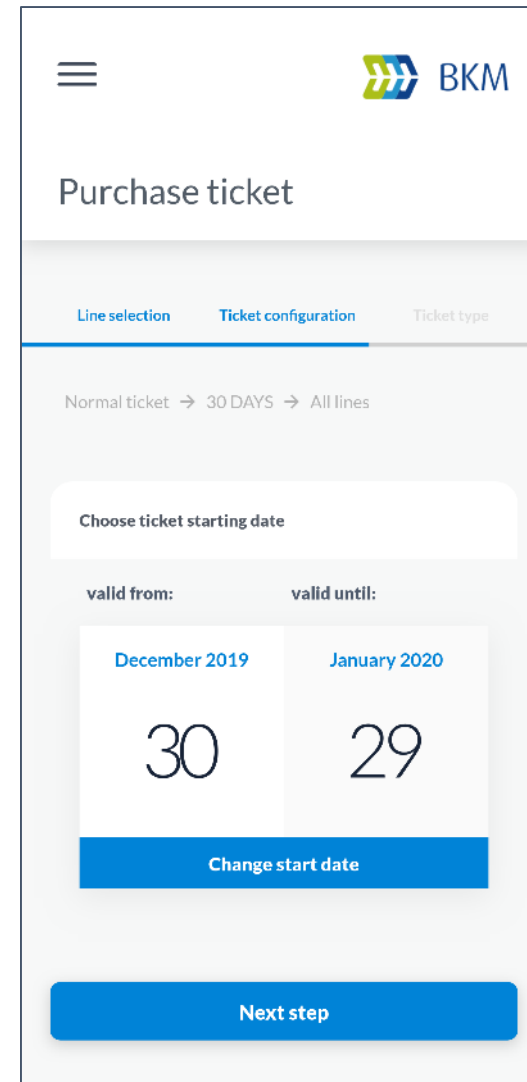
Shopping history

Terms of use

Card information

Blocking card

About



Purchase ticket

Line selection Ticket configuration Ticket type

Normal ticket → 30 DAYS → All lines

Choose ticket starting date

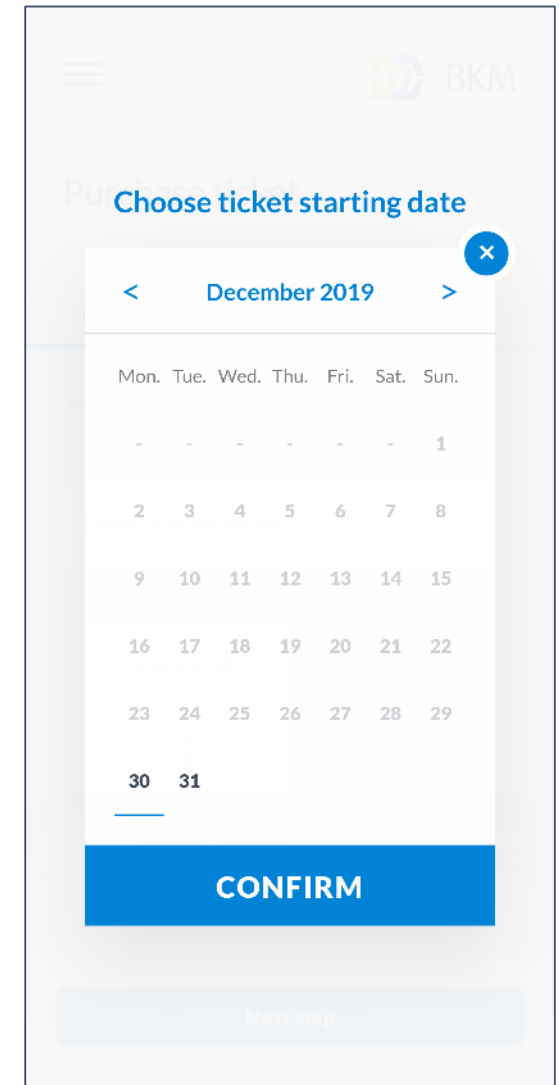
valid from: valid until:

December 2019 January 2020

30 29

Change start date

Next step



Choose ticket starting date

< December 2019 >

Mon.	Tue.	Wed.	Thu.	Fri.	Sat.	Sun.
-	-	-	-	-	-	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

CONFIRM

Next step

Buy a ticket online / charge a card online / passenger profile & history /
Integration with payment operators



Maciej Nowik

CARD NUMBER

19500646574

TYPE

PERSONALIZED

VALID FROM:

2011-09-29

VALID UNTIL:

2021-09-29

PROFILE

NORMAL

PROFILE VALID FROM: PROFILE VALID UNTIL:

2019-12-30

[LOG OUT](#)[BLOCK CARD](#)[Purchase ticket](#)[Shopping history](#)[Terms of use](#)[Ticket profile](#)[Ticket category](#)[Line selection](#)[Ticket configuration](#)[Ticket type](#)[Summary](#)[Payment](#)

Ticket configuration

Normal ticket → 30 DAYS → All lines

Choose ticket starting date

valid from:

valid until:

December 2019

January 2020

30

29

[Change start date](#)[Next step](#)

Choosing ticket starting date



Maciej Nowik

CARD NUMBER
19500646574

TYPE
PERSONALIZED

VALID FROM: 2011-09-29 VALID UNTIL: 2021-09-29

PROFILE
NORMAL

PROFILE VALID FROM: 2019-12-30 PROFILE VALID UNTIL: ---

[LOG OUT](#)[BLOCK CARD](#)[Purchase ticket](#) [Shopping history](#) [Terms of use](#)[Ticket profile](#)[Ticket category](#)[Line selection](#)[Ticket configuration](#)[Ticket type](#)[Summary](#)[Payment](#)

Summary

Normal ticket → 30 DAYS → All lines

Ticket selection

Ticket:	Normal ticket
Ticket Category:	Personalized, 30 DAYS
Ticket Configuration:	All lines
Ticket Type:	Zone 1
Ticket valid from:	2019-12-01
Ticket valid until	2019-12-31

Price: **84.00**

[Go to payment](#)

Summary – Purchase ticket





Maciej Nowik

CARD NUMBER
19500646574

TYPE
PERSONALIZED

VALID FROM: 2011-09-29 VALID UNTIL: 2021-09-29

PROFILE
NORMAL

PROFILE VALID FROM: 2019-12-30 PROFILE VALID UNTIL: ---

[LOG OUT](#) [BLOCK CARD](#)

[Purchase ticket](#) [Shopping history](#) [Terms of use](#)

[Ticket profile](#) [Ticket category](#) [Line selection](#) [Ticket configuration](#) [Ticket type](#) [Summary](#) [Payment](#)

Wybierz bank

							
							
		Traditional Transfer					

E-mail

I accept the regulations and agree to the processing of my personal data in accordance with the Personal Data Protection Act of August 29, 1997 (Journal of Laws of 1997, No. 133, Item 663) ☒

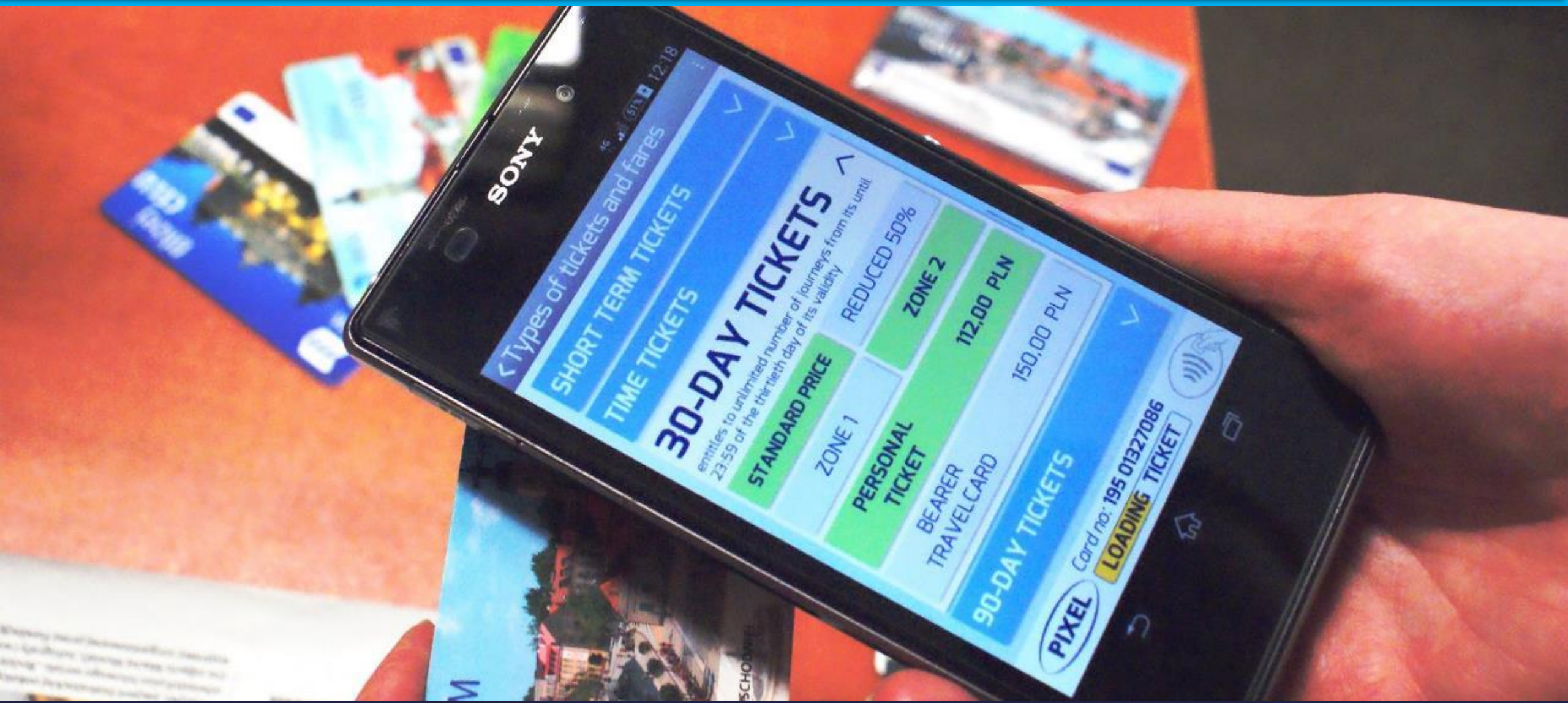
[Cancel transaction](#) [Authorize Payment](#)



Equipment of Service Point: Computer + smart reader with SAM card + printer



Interaction with Ingenico ICT250



SECAM Integration with external App (new feature)



Controller Application by Beeset on Smartphone with NFC,
connection via bluetooth with mPOS terminal to validate purchase using contactless payment card



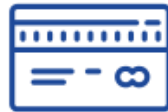
Controller Application by Beeset on Smartphone with NFC, connection via bluetooth with mPOS terminal to validate purchase using contactless payment card



Reading and verification of data stored on the city card using NFC



Verification of the ID number of wanted passengers



Secure verification of products purchased by payment card (tokenization mechanism)



Recording of GPS position of each control carried out



Verification of tickets and permissions in the form of 2D codes (QR and Aztec)



Blocking validators with a controller card or online



Downloading white and blacklists (list of cards for which products were purchased and list of blocked cards)



Audit reports in the SECAM system

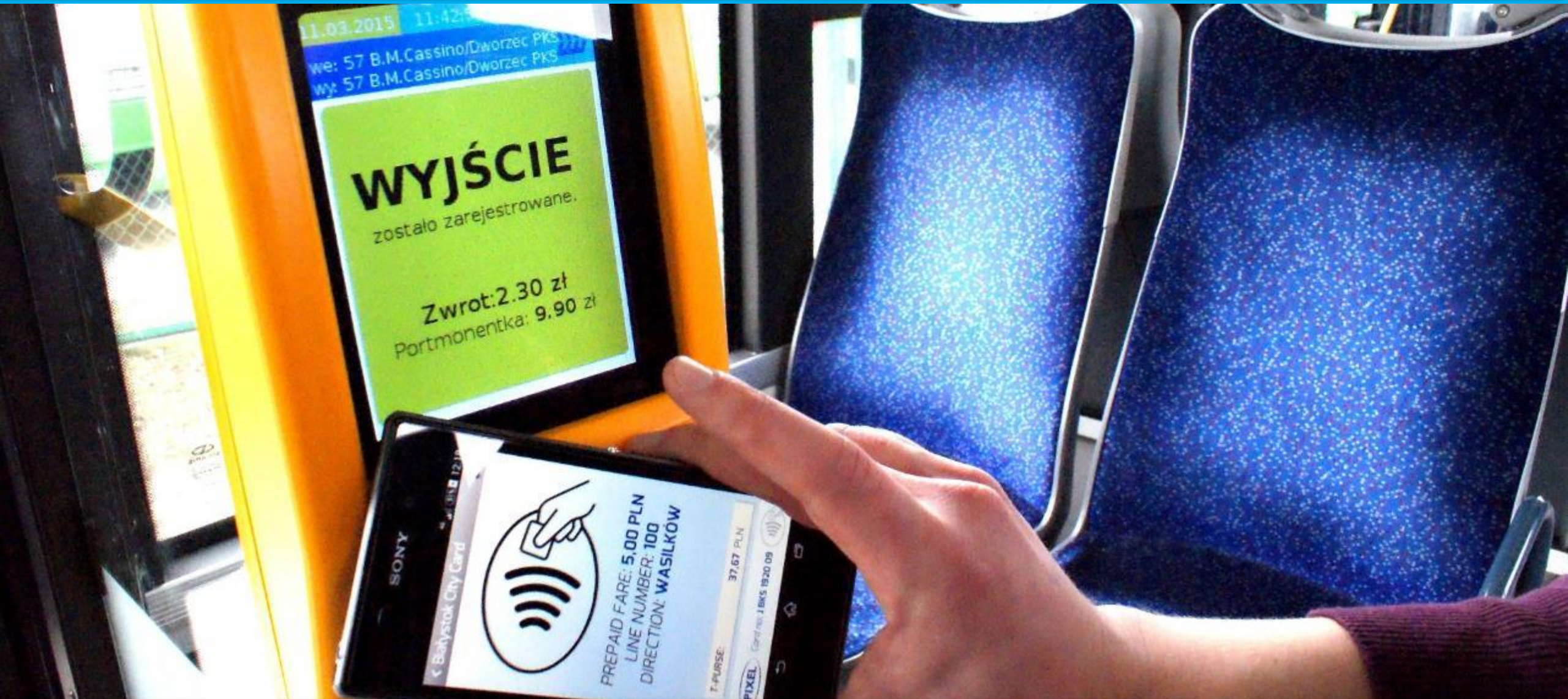


Interface to the SECAM system that allows online verification of current permissions and purchased tickets



Mutual authentication, encryption of transmitted data and automatic synchronization





Card virtualization in app (Smartphone with NFC)







BEESSET

You can find more
information about SECAM
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