



Intelligent Urban Transport Systems



New products, services and technologies at IT-TRANS 2018

Part 1: Integrated fare management

Karlsruhe/Brussels, 7 November 2017. From 6 to 8 March 2018, the international public transport sector will gather for the sixth **IT-TRANS** – International Conference and Exhibition on intelligent urban transport systems, at the Karlsruhe Trade Fair Centre. Spread over 15,000 square metres of exhibition space, some 250 exhibitors from more than 30 countries will present their latest products and services from segments such as integrated fare management.

Wizway Solutions - contactless ticketing for smartphones

Wizway Solutions is the result of a unique collaboration between four major industrial players: Gemalto, Orange, SNCF (French Rail) and RATP (Paris Metro Operator). After several months of development, this start-up is now able to offer the first NFC based service that brings the world of transport to the smartphone.

Wizway Solutions offers a simple, secure service that enables any transport operator, whatever their size, to provide contactless ticketing on a smartphone. This NFC based solution has the advantage of being compatible with existing contactless validation systems and can be easily and rapidly integrated into the mobile applications of transport operators. The solution enables all types of information (travel information, right to transport, identifier, photo, etc.) to be securely stored on the passenger's smartphone, making it compatible with all ticketing systems (Media Based Ticketing or Account Based Ticketing). Passengers can purchase different types of transport documents (individual tickets, season tickets, etc.) from within the transport provider's mobile application. To validate their tickets they just need to place their smartphone (even when it is out of battery or turned off) in front of the validation system or present it to the ticket agent. Passengers can travel from A to B using various modes of public transport simply using their smartphone.

By making it simple to buy tickets for several different transport networks and allowing access to everyday services from a smartphone, Wizway is contributing to the development of shared mobility services and providing users with a 100% mobile experience.

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Intelligent Urban Transport Systems



The service is compatible with all existing ticketing systems that are compliant with Calypso standards (an international standard widely adopted in France and used in 25 other countries around the world) as well as with access to everyday services such as swimming pools or media centres. From 2018, new standards will gradually be introduced to adapt the service to the various different European ticketing systems.

Launched in November on the Compagnie des Transports Strasbourgeois (CTS) network and chosen by the Île-de-France region (which represents more than 41 million journeys a day), Wizway's solution is already helping the development of „Mobility as a Service” in France.

PCI 4.0 certified payment terminals from Feig make public transport ticketing systems safer and significantly faster

cVEND from FEIG ELECTRONIC is a family of terminals for Open/Closed Loop Ticketing for contactless credit cards and public transport tickets for integration in on-board terminals, validators, ticket machines or ticket gates. The terminals are certified according to EMVCo Level 1 and PCI PTS 4.0 and offer EMVCo Level 2 kernels for American Express, Discover, Mastercard and VISA.

cVEND enables maximum Transaction Speed: cVEND's contactless front-end combines a secure Linux operating system and an architecture of eight independent application directories to process open loop payment applications (by using Level 2 kernels) in parallel with closed loop ticketing applications (use of common RFID chips like Mifare, Felica, etc.). The parallel technique enables maximum possible transaction speed. End-to-End-Encryption by Crypto Plug-ins: cVEND is available in three variants. cVEND box+ and cVEND box (with and without display) can be mounted in any kind of metallic surrounding like ticket machines and ticket gates. cVEND plug can be integrated almost invisibly into validation terminals. All variants offer an easy and fast End-to-End-Encryption (E2EE) due to an innovative Crypto Plug-in concept. Several interfaces, like Ethernet, USB, RS232, RS232-TTL, SPI, I2C allow integration in different applications.

Ridango introduces smart self-service validator for trains

At **IT-TRANS 2018**, Estonian-based Ridango will present its award-winning public transport ticketing system, including vehicle setup with different driver displays, ticketing controllers and validators. The highlight will be Ridango's newest product – a smart self-service validator for trains with a large 10” touchscreen. The validator features both RFID and 2D readers and is



Intelligent Urban Transport Systems



capable of accepting transit cards, various 2D codes (QR, Aztec, barcode, etc.), but also contactless EMV payments. The large touchscreen makes point-to-point ticket purchase more convenient and allows intuitive tablet-like interaction. The validator has already proven itself in all passenger trains of Estonian Railways throughout the country.

Ridango is an IT solutions provider for public transport with focus on Automated Fare Collection (AFC) and Real-Time Passenger Information (RTPI) systems. The company provides both hardware and software, but also handles installations, training and later operations during the whole contract period. Ridango's transit solutions support EMV card transactions, mobile ticketing, QR-ticketing, but also token-based closed-loop transit card ticketing for different ticket types and tariffs, including best fare calculation. The variety of ticketing media allows to choose the most suitable purchasing method for any customer and/ or geographical region.

FAIRTIQ ticketing app reduces ticket purchases down on a single click

For the first time at **IT-TRANS**, Swiss start-up FAIRTIQ will present its pioneering ticketing app, which makes ticket purchases in public transport as easy as a single click. The check-in/check-out app combines a user-friendly and easy-to-use user interface with intelligent algorithms that make it extremely easy to use: Thanks to its very simple handling, passengers can use FAIRTIQ to buy the right ticket without any prior knowledge:

- Click on Start and the correct ticket will be issued.
- Click on Stop and the trip will be charged – thanks to the best price algorithm always at the best possible price.

FAIRTIQ is the first check-in/check-out app that solves the problem of forgotten check-outs. Thanks to the mechanisms built into FAIRTIQ (patent pending), forgotten check-outs occur on average in less than one in 700 trips. This means a significant simplification for customers and corresponding cost savings in customer service complaints for companies. Because FAIRTIQ does not require any hardware nor installation of vending machines, conversion of vehicles or measures at stops. The system can therefore be put into operation with minimal investment and in the shortest possible time. The ticketing app will be presented live at **IT-TRANS** in Karlsruhe.

FAIRTIQ is constantly being improved. The start-up is working on the automatic detection of the check-out time. This makes FAIRTIQ a check-in, be-out-app without any hardware (no action by the customer needed for the



Intelligent Urban Transport Systems



check-out). FAIRTIQ has been successfully operating in the Swiss market in various networks since April 2016 and can soon be used throughout Switzerland for all public transport services.

ATRON, RADCOM and VDV eTicket Service will again be present at IT-TRANS

High-performance check-in systems are part of the product portfolio that ATRON electronic will bring to **IT-TRANS** 2018. Additionally, the Bavarian company will show, among others, their latest generation of ticket vending machines for mobile and stationary use as well as new solutions for driver sale.

RADCOM from Romania offers integrated systems for monitoring, dispatching, e-ticketing and traffic control for transport companies, enabling: fleet management, ticketing, passenger information, video monitoring and automatic passenger counting processes. At **IT-TRANS** 2018, RADCOM will present its latest innovative product, the contactless validator – E-CHECK. It boasts a modern and ergonomic design and a 5.6 inches LCD and anti-vandal touch screen. The performance of the device is sustained by a 32-bit ARM11 processor, 128MB FLASH and SRAM memory. E-CHECK is produced in three versions: Standard with RFID card reader, dual with RFID card reader and thermal printer or with RFID card reader and barcode reader.

VDV eTicket Service and the Association of German Transport Companies (VDV) will again join forces and operate a common booth in the Karlsruhe Trade Fair Centre in 2018. In addition to general information about the e-ticket standard in Germany „VDV-Core Application“, VDV eTicket Service will give an insight into upcoming developments and research projects.

DISCLAIMER

The published articles express the personal opinions of the authors and in no way represent the views of the International Association of Public Transport (UITP) or Karlsruher Messe- und Kongress GmbH. Some slight amendments might have been made to the articles provided by the exhibitors. Status: As of November 2017. Subject to alterations.

Caption:



Intelligent Urban Transport Systems

Wizway Solutions presents a contactless ticketing on a smartphone, which is based on NFC.



Ridango introduces a smart self-service validator for trains at **IT-TRANS**. The validator features both RFID and 2D readers and is capable of accepting transit cards, but also contactless EMV payments.

IT-TRANS, International Conference and Exhibition on Intelligent Urban Transport Systems, celebrated its debut in Karlsruhe in 2008. Within a short period, the biennial event was established as the most important platform for the industry. It is organised by the International Association of Public Transport (UITP) and Karlsruher Messe- und Kongress GmbH. **IT-TRANS** is aimed at all players in the public transport sector, and in particular at decision-makers from transportation companies and representatives of the private sector, government and professional associations. At seminars, workshops and presentations held during the three-day conference, international speakers will discuss innovations and the implementation of IT solutions for public transport. About 250 international companies and service providers will present their latest products in the exhibition.

The next **IT-TRANS** will take place at the Karlsruhe Trade Fair Centre from 6 to 8 March 2018.

More information: www.it-trans.org and www.twitter.com/IT_TRANS