

Public transport

tickets and passes on paper,
plastic and mobile

identity
form
card
mobile
payment



security since 1851

Tickets and passes on paper, plastic and mobile

ANY Security Printing Company (former State Printing Company) has been producing paper based tickets and passes for several decades. These valuable printed matters have been protected by numerous security elements, holograms over the last years. The regular forgeries in Hungary have led to the fact that besides document security protection IT protection have also appeared, contactless cards and mobile developments have come to the front, ensuring more convenient application and easier sales opportunities in accordance with international trends.

Based on its innovative developments, experiences and references, ANY Security Printing Company is ready to securely produce and personalise tickets and passes on security thermo paper, contactless card and in mobile application. Its service portfolio extends to supply of card printers ensuring local personalisation.

Application of transport media and their personalisation depend on the public transport operator's planned service system. ANY Security Printing Company adapting itself to the demands, is ready not only to supply PersoProtect thermal papers that can be used immediately and verified by a checking device easily but to produce and personalise

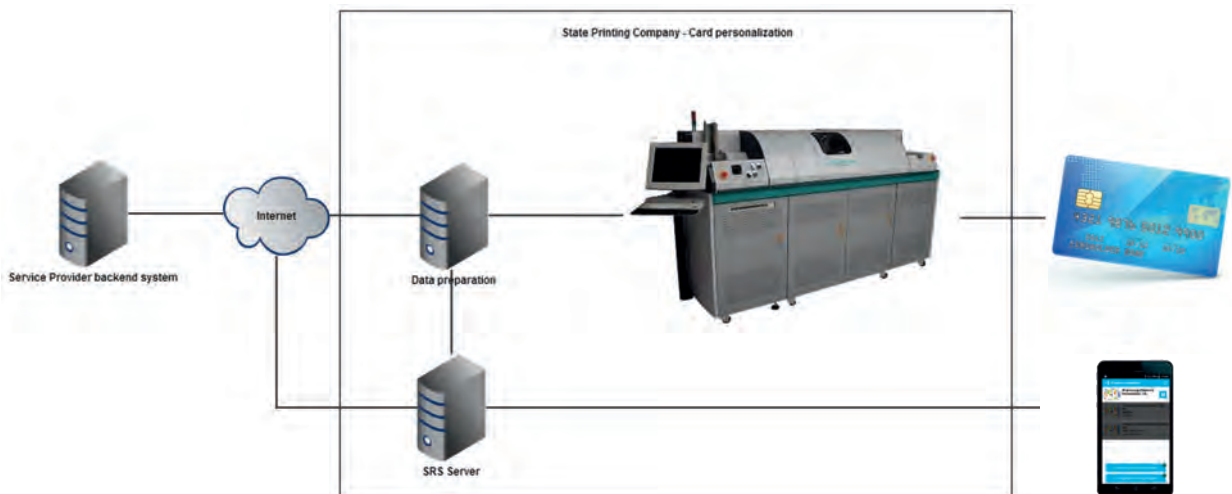
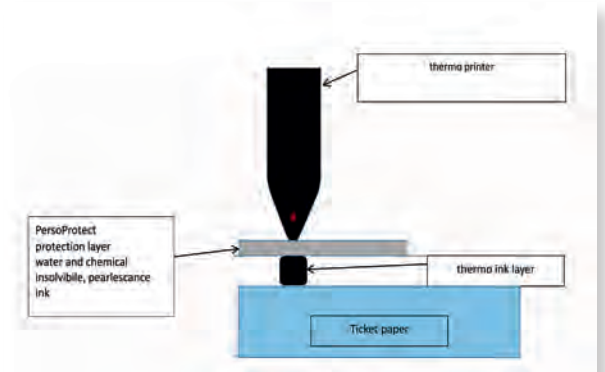
contactless cards and public transport mobile applications in a complete or in a modular system.

PersoProtect - security thermal paper

Due to the solution developed by the Document Security Laboratory of ANY Security Printing Company, it is possible to protect thermal paper - that can be easily applied in



ticket vending machines -, simple tickets and valuable passes efficiently. Security of the thermal paper is based on a special ink; by its application the graphic shows iridescent



effect after personalisation. The unique graphic that is easily verifiable by naked eye can be seen under daylight if the viewing angle is modified and it cannot be reproduced by photocopying. The PersoProtect thermal paper – that is produced by ANY Security Printing Company – can be applied in case of transport tickets, passes issued by ticket vending machines or by the cashier.

Contactless plastic cards

ANY Security Printing Company has already produced more than 500 million cards. Besides production of contactless transport cards it participates in production and personalisation of an almost full range of Hungarian documents. The Company has been producing document cards in a strict environment for 15 years and bank cards are produced with permits of MasterCard and VISA.

Irrespective of the fare accounting system of the public transport operator, ANY Security Printing Company is ready to produce and personalise contactless cards in great quantities according to the needs of the required system. The cards can be Mifare Classic, ultralight, DES Fire contactless cards with chip and antenna. In point of the chips and antennas that are embedded into the cards the Company is not engaged to any producer, therefore it is able to adapt flexibly to the occurring needs.

TSM service

According to standards that were evolved in accordance with international card corporations and mobile service operators, ANY Security Printing Company PLC – supported by its MasterCard Mobile Provisioning TSM (Trusted Service Management) – service is ready to personalise SIM cards including SE (secure element) that are applied in NFC phones. The Company plans to be able to issue HCE (Host Card Emulation) based bank cards in the near future. The Company's TSM solution has been being tested in the nearly one year long national MobileWallet pilot by the three Hungarian mobile network operators (Telekom, Vodafone, Telenor), the largest domestic bank (OTP) and a loyalty program, one of the systems with the most customers (SuperShop). Transport and different entry applications personalised with TSM service were also tested in MobileWallet pilot. In the NFC pilot, which was operated by thousands of users, the Company's TSM service with remote personalisation and lifecycle management service proved to be successful.

ANY Security Printing Company - with its audited bank card production and TSM service - is ready to fully serve public transport operators. Whilst daily personalisation, due to secure data transfer the Company is ready to produce transport tickets in plastic card format and to install them into NFC phones. For pushing all the advantage of contactless applications, the Company is ready to customize white label applications according to the Clients' needs.

E-ticketing passes and tickets in a mobile application

Due to development of international and domestic public transport systems and directives it is possible to get banking cards used as passes or electronic tickets irrespective of whether they are personalised on plastic or in mobile wallet. Experts of the Printing Company are ready to professional support of public transport operators. The Hungarian and the European public transport systems are going to be prepared to have pre-installed public transport season ticket applications as co-branded bank cards; furthermore it will be possible to be adapted to Pay as You Go systems. The Printing Company is able to support the financial institutions in the quick integration with personalisation of an already existing bank card or a mobile application. Furthermore based on our experiences in the Hungarian T-City project, we are ready to develop our own pass application and due to our MasterCard certified TSM service to personalise and support the applications.



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