

Smart Mobility Solutions

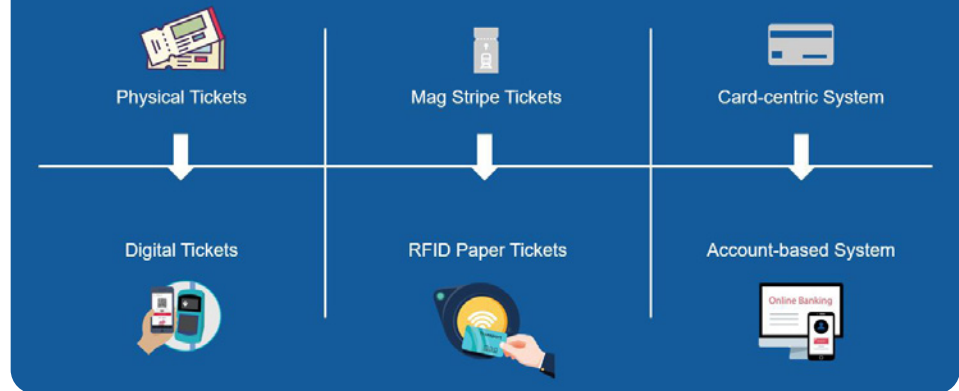


**A COMPLETE AND MODULAR
SOLUTION FOR TRANSPORT TICKETING**



MARKET TRENDS

Public Transportation



HID's Smart Mobility Solutions provide a complete product and service offer for mobile transport operators and system integrators.

- Physical contactless tickets in different form factors (e.g. paper, card, ID-band, keyfob)
- Mobile credentials
- Issuing systems and services
- Verification hardware modules
- Personalization and fulfillment
- Management Software

Our experts configure and design the operating systems to ensure compatibility and security for every use case.

Cards and tickets solutions

At present, many public transport systems collect fares using closed-loop applications and smart cards. Most of these collection systems rely on proprietary contactless technologies that often provide only a basic level of security like barcode or magstripe. In HID Global we have a strong expertise in High Secure and Open Standard solutions merging the security of card/ticket body with our strong cryptography capabilities. We are able to manage the full card/paper/mobile-ticket life cycle from production to personalization and fulfillment thanks to our Personalization Center.

A wide range of Operating Systems

Starting from our experience in the realization of e-ticketing systems for transportation based upon the use of smart cards, HID Global has developed platforms for multifunctional smart cards, usable for local public transport and utilizing the most important international standards.

KIAT™ (Key ISO Authentication Token) is a dual interface card (contact and/or contactless) compliant with the international standards ISO 7816 and ISO 14443. KIAT™ is a multi-application operating system developed by HID Global optimized for public transport use cases,

Soma Atlas™ is a multi-application, contactless or dual interface microprocessor based smartcard that complies with **Calypso** Specification for Ticketing, ISO/IEC 14443, ISO/IEC 7816 and ensures high security and fast contactless transactions. **SOMA Atlas CLAP** (Calypso Light Application Protocol) by HID Global is the first officially certified implementation of this standard that provides full **Calypso** security at a price comparable to non-secure memory-only tickets.

Soma Helios™: implements **Cipurse** as an Open Standard operating system that provides a secure and flexible solution for public transport and multi-application schemes. It was defined by the Open Standard for Public Transportation Alliance (OSPT) to enable a future-proof, vendor independent platform.

MIFARE®: As one of only few MIFARE® Premium Partners globally, HID Global's experts are always up to date concerning latest MIFARE® products and solutions, providing customers with an international presence and support.

HID's MIFARE® products range from MIFARE® Ultralight for single-use/single application tickets to advanced, high-security implementations supporting flexible file systems and multi-applications like MIFARE® DESFire®. HID Global supports any MIFARE® chip in any form factor (paper ticket, ISO card, keyfob, wristband) and helps customers defining file systems, configuration and migration paths for their mobility projects.





Host card emulation (HCE)

HCE is the software architecture that provides exact virtual representation of various electronic cards (access, transit, banking etc) using only software. HCE enables mobile applications (running on supported operating systems) to offer card solutions independently of third parties while leveraging cryptographic processes traditionally used by hardware-based secure elements without the need for a physical secure element. HID provides development services to implement a ticketing system on mobile devices as well as to remotely manage it via a cloud-based architecture.

Life made easier with new Automated Fare Collection (AFC) solutions!

Use credit cards or mobile phones as tickets, order your transport subscription on the Internet... Nowadays, all major transport companies are looking for innovative solutions to improve service to their customers with a special attention to cost reduction of physical supports and their distribution. AFC software proposed by HID Global is a global solution that implements a comprehensive, powerful and easy-to-use e-ticketing system.

HID Global's proposal is based on a modular structure that allows to acquire and use the functionalities needed for the specific electronic ticketing system, ensuring the possibility to upgrade it subsequently with add-ons and expansions. Each module is available separately, in order to tailor the initial investment to the real needs of the company. All data produced are collected in a central database. It can be used by several companies working together (but independently) in the same system.

Efficient and robust hardware equipment

A ticketing solution would not be complete without the hardware equipment that enables ticket issuing and control:

- Automatic vending machines
- Contactless validators
- Portable multifunction units ...

In summary: HID Global is a reliable partner for ticketing projects around the world, providing a strong level of expertise and manufacturing footprint.

For more information and details on our solutions, please contact us at tagsales@hidglobal.com

Some references



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