ITSO, the EU-IFM Project and Open Standards:

Harnessing Smart Ticketing across Public Transport

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What is Smart Ticketing?

Smart Transport Ticketing not just about payment but covers:

- Point-to-Point Tickets
- Period Passes
- Concessionary Travel
- Pay-on-Entry and Pay-as-you-Go
- Specialised Ticketing (e.g. Apex, Reservations)

…and there to encourage integrated travel…

…and modal switching

Drivers towards Interoperability

- Mobility

- Harmonisation

- Procurement

- Scale economics

- Social inclusion

… and support for the Green Agenda by removing barriers to modal switching

Public Transport Smart Ticketing Interoperability

Public Transport Smart Ticketing needs interoperability at three levels:

- Local Schemes
- National Schemes
- International Schemes

The European Interoperable Fare Management Project (EU-IFM)EU-IFM Project Aims

- Aim is to ensure cross-border interoperability of Transport Smart Ticketing is enabled across Europe

- Implement a EU-wide Road Map where:
  - Customers use their chosen smart media (such as NFC smartphone) outside their home network
  - Transport authorities have the tool-set to build new systems using standardised Specifications
  - Deliver the associated Trust Environment
  - Charter a way through Privacy Issues

Issues raised by EU-IFM Project

- Open Standardisads
- Co-ordination between Pilots
- Early Adoption to avoid wasteful expenditure
- Migration of Legacy Schemes
- Convergence with Payment developments in NFC and Mobile EMV
- Need for a secure SIM-centric approach to NFC

Smart Ticketing Standardisation

Smart Ticketing is currently governed by the following International (ISO) and European (CEN) Standards:

- Media/NFC interface and File Structure: ISO/IEC 14443 & 7816-4
- Secure Element: Global Platform
- Secure Element Security: ISO 15408 (Common Criteria)
- Smart Ticketing Roles and Use Cases: EN ISO 24014-1/3 (IFM)
- Transport Applications: EN 15320 (IOPTA)
- Transport Data Elements: EN 1545

New Smart Ticketing Standardisation Work

- New ISO Technical Specification for implementing Smart Ticketing in a multi-application environment based on EU-IFM Project

- New CEN Technical Specification for implementation of contactless interface for Smart Ticketing Applications

- Co-operation with GSMA on Standardisation and Certification covering all European NFC Smart Transport Ticketing Applications and Readers

The Open Standards offer for the Public Transport Operator

Open Standards offers a unique opportunity to:

- Create interoperability between schemes

- Access a wide range of media and co-exist with other Applications on 3rd party media (e.g. mobile phones)

- Access Best Practice

- Benefit from scale economics in product development

- Reduced barriers to procurement and speed of implementation

The Open Standards offer for the Traveller

- Open Standards offers a unique opportunity to engage travellers through their preferred media.

- Minimum Specification based on Open Standards and Composite Certification provide a Trusted Service

- Seamless links can be made between Journey Planning, Smart Ticket Selection and access to multiple Public Transport Networks across borders

- Ticketing and Payment can reside alongside each other

The ITSO / OSPT Relationship

ITSO and the OSPT Alliance have agreed to participate in each others organisations to:

- leverage the complementary aspects of the two specifications

- diversify the support of ITSO media to include AES-based products such as OSPT's Cipurse

- create solutions that will be mutually beneficial to both organisations

- promote the use of open security standards in public transit

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