

EUROPTIMA

EUropean **O**pen **P**latform for smart card **T**icketing, payment and multiservices in **I**nteroperable **M**obility **A**pplications



EUROPTIMA addresses the need for implementing data and fare collection systems adapted to the requirements of mass transit operators, especially small scale ones, in terms of implementation and operation costs, modularity and flexibility of fare evolutions, interoperability and customer relationship.

At a Glance

Project acronym:

EUROPTIMA

Project type:

Collaborative project

Programme:

7th EU Framework Programme
Project N°27011

Project coordinator:

Etienne Graindor,
CNA Calypso Networks Association
admin.europtima@teleticketing.eu

Project partners:

OTLIS Operadores de transportes da região de Lisboa
VEOLIA TRANSPORT
CARD4B SYSTEMS
MTA Mobility, Ticketing & Applications

Start date: January 2011

End date: June 2013

Total cost: € 4,230,661

EU funding: € 3,100,000

Project website:

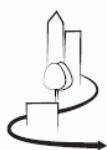
www.europtima.teleticketing.eu

Objectives

EUROPTIMA targets to :

1. **Specify** a coherent, comprehensive and analogous to an Enterprise Resource Planning (ERP) architecture for Automatic Fare and Data Collection based on an **open scalable modular suite** satisfying **industry standards including Calypso and adapted to the specific requirements of small size mass transit, multi-services and mobility operations;**
2. **Develop**, at prototype level, the appropriate software components and adapt hardware, communication and interfaces corresponding to the EUROPTIMA specified architecture at the terminal, communication and back-office levels;
3. **Stabilise and pilot** a modular, designed to become of the shelf, scalable and customisable open solution;
4. **Propose the EUROPTIMA proven results to an adequate level of standardisation** (ERP components, protocols, extensions and complements to the existing standards);
5. **Define the EUROPTIMA business models, actively promote the results** and prepare for production and commercial exploitation with the various stakeholders of the value chain.

Description of Work



EUROPTIMA is targeting especially the segment of small Transport Operators for whom the existing commercial offer for AFC systems is not adequate: the business model of AFC systems integrators does not take into account operators running a fleet of less than 10 up to 50 vehicles.

To cover this segment of small operations, EUROPTIMA shall provide an accessible e-ticketing system to all public and private Transport Operators with limited investment capacities and low IT resources willing to set up an electronic fare management system. To achieve this scope, the work is divided in four main streams:

- I. Project coordination and management (CNA lead position)
- II. Technical developments (CARD4B/YOUMOVE lead position)
- III. Demonstrations and assessments (VEOLIA and OTLIS joint lead position)
- IV. Exploitation and communication issues (MTA lead position).

MILESTONES FOR TECHNICAL DEVELOPMENT

- 1) **General Specifications** - EUROPTIMA System Architecture in the Ticketing and Mobility Ecosystem (*May 2011*);
- 2) **Detailed Specifications of EUROPTIMA System** in its ticketing and mobility ecosystem (*July 2011*);
- 3) **Software Components Implementation** - EUROPTIMA Ticketing Application Kernel Software (*September 2012*);
- 4) **Hardware and Protocol Components Testing and Adaptation** - EUROPTIMA Physical Architecture and BO/FO Protocol (*July 2012*);
- 5) **Integration of the Components** - EUROPTIMA Platform (*September 2012*).

DEMONSTRATION

The developments for the production of the EUROPTIMA platform will be **integrated and tested in a laboratory environment** in order to assess how the conceptual architecture translated into functional and well delimited modules works.

Afterwards EUROPTIMA architecture will be installed into **two demonstration sites from France and Portugal**, both having a small scale size and using lightweight terminals.

EXPLOITATION AND COMMUNICATION

A specific task of exploitation will consist in the input of the results from EUROPTIMA into **standardization and specification bodies**, such as NFC forum, EMVco, ISO and CEN.

From the beginning of the project an **advisory group** will be built which will be informed on the progress of the project and have opportunity to comment about EUROPTIMA vision and developments.

EUROPTIMA will produce a six monthly **newsletter** diffused to the community of contactless ticketing, payment and NFC, informing on the progress of the developments and on the targets being achieved.

Expected results

EUROPTIMA will deliver the following results:

1. **The EUROPTIMA toolkit**: a tele-ticketing software components suite, interoperable with existing infrastructure and future lightweight terminal concepts as well as with the mobility ecosystem, together with the adequate level of standardization;
2. A **business operation model** using the EUROPTIMA toolkit and allowing the implementation of a tele-ticketing operation at small operations;
3. A **change of the tele-ticketing paradigm** allowing an easier and efficient insertion of tele-ticketing within the general mobility ecosystem.

For further information:

Information Desk

European Commission - Information Society and Media DG

Office: BU31 01/18 B-1049 Brussels

Email: info-desk@ec.europa.eu Tel: +32 2 299 93 99 Fax: +32 2 299 94 99

http://europa.eu/information_society