



The RCI project will develop an open framework enabling road charging interoperability at a technical level, which is based on the key existing and planned road charging deployments in Europe. It will implement and test this framework during field trials at six sites, namely Austria (EUROPPASS), France (TIS), Germany (TOLL COLLECT), Italy (TELEPASS), Spain (VIA-T) and Switzerland (LSVA).

The project will demonstrate the ability of the prototyped onboard equipment to produce the required “transaction” data for the service provider and/or contract issuer in each of the field trial sites.

RCI will analyse the demonstrations and validate its prototypes and framework.

Its validation and lessons learned will as such, contribute to the definition process of the EETS.

Scope of work

- 1 To describe the general framework in terms of use cases and requirements for interoperability for the different vehicle categories that currently exist
- 2 To define the framework in terms of:
 - a Functionalities and information flow
 - b The technical architecture, including the specification of the onboard equipment (OBE)
- 3 To demonstrate on the networks of selected operators (Austria, France, Germany, Italy, Spain and Switzerland) the ability of each RCI OBE to:
 - a Execute transactions
 - b Run other services on the same OBE
 - c Produce the road charging transaction data. This data will be at the disposal of the service provider and/or contract issuer for invoicing the end-users.
- 4 To propose a type approval and certification process in terms of:
 - a Overall framework
 - b Test plan and
 - c Exemplary type approval

Objectives and main results

The objective of the RCI project is to specify and implement the RCI prototype that operates in any of the existing RCI road charging environments:

- ★ Austria (EUROPPASS)
- ★ France (TIS)
- ★ Germany (TOLL COLLECT)
- ★ Italy (TELEPASS)
- ★ Spain (VIA-T)
- ★ Switzerland (LSVA)

The RCI specifications must:

- A. Define interfaces that can “open existing systems” by allowing different suppliers to manufacture equipment that can be certified against these specifications and that can operate in different contexts (CEN DSRC/CARDME, Autostrade DSRC, ‘Multi technologies’ as in Germany and in Switzerland)
- B. Contribute to the convergence of future tolling systems and the evolution of existing tolling systems as such allowing for a greater re-usability of standard components across different systems
- C. Be open, public and available on a non-discriminatory basis to any stakeholders including all system suppliers

RCI Forum

In order to ensure the widest possible consensus on the proposed solutions, the project has created the RCI Forum.

Members of the Forum will have access to all important public documents and will be invited to participate in workshops - foreseen at three key stages of the project - in order to review draft versions of the:

- ★ User needs and system requirements
- ★ System architecture and interface specifications
- ★ Results of the assessment and validation work

Membership of the RCI Forum and attendance to the workshops is free of charge.

Forum members will be responsible for their own travel, accommodation and other costs for attending the workshops. If you would like to apply for membership of the RCI Forum, please complete the RCI Application Form, which is available on the RCI website.

Duration

36 months, starting on 29 June 2005 and finalising in July 2008.

EC Support

The project receives co-funding through the EC Transport and Energy Directorate General.

Consortium



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